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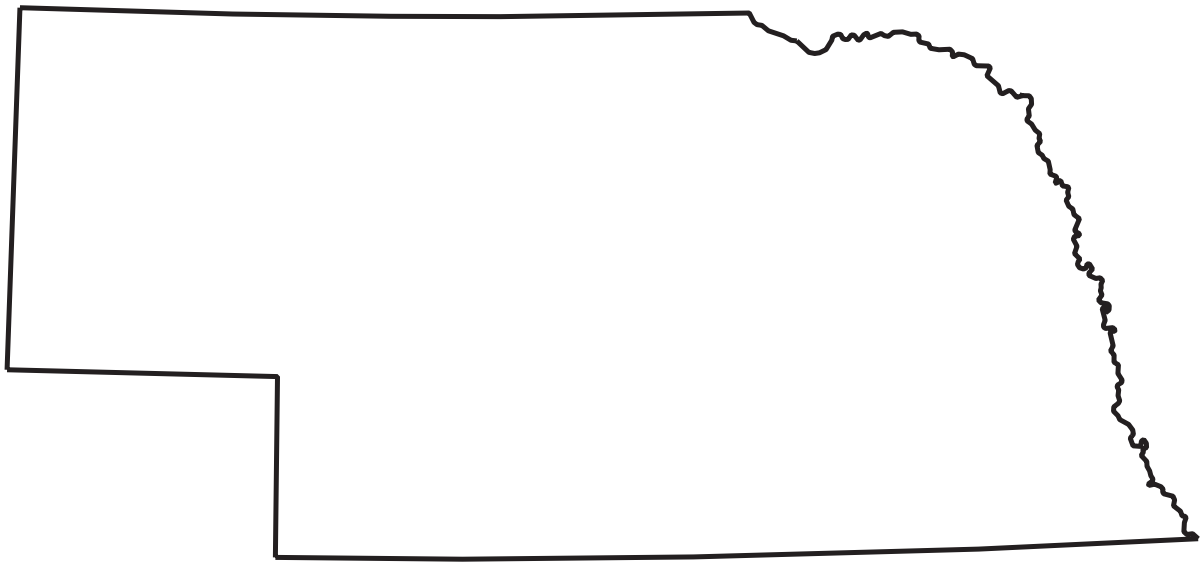
Prepared in cooperation with the Nebraska Department of Natural Resources, the Conservation and Survey Division of the University of Nebraska, the Nebraska Department of Environmental Quality, and other Federal, State, and local agencies

Water Resources Data
Nebraska
Water Year 2004



Water-Data Report NE-04-1

U.S. Department of the Interior
U.S. Geological Survey

Calendar for Water Year 2004

2003

October

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2004

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26	27	28	29	30		

Water Resources Data
Nebraska
Water Year 2004

By D.E. Hitch, V.C. Walczyk, R.A. Drudik, J.D. Miller, S.H. Hull

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Water-Data Report NE-04-1

Prepared in cooperation with the Nebraska Department of Natural Resources,
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PREFACE

This annual hydrologic data report of Nebraska is one of a series of annual reports that documents hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, quality of water, and ground-water levels provide the hydrologic information needed by Federal, State, and local agencies, and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who edited and assembled the report.

In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to U.S. Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, review, and tabulation of the data:

D.L. Curtis, G.V. Steele, J.S. Stanton, W.H. Kress, J.D. Frankforter, V.L. McGuire, D.L. Rus, B.J. Dietsch, J.R. Vogel, J.E. Curtis, M.J. Griffin, and K.E. Wilson of the Nebraska Water Science Center.

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The Nebraska water resources data report for water year 2004 includes records of stage, discharge, and water quality of streams; water elevation and/or contents of lakes and reservoirs; and water levels and quality of ground water in wells. This report contains records of stream stage for 3 stations; stream discharge for 101 continuous and 5 crest-stage gaging stations, and 6 miscellaneous sites; stream water quality for 7 gaging stations and 40 miscellaneous sites; water elevation and/or contents for 2 lakes and 1 reservoir; ground-water levels for 74 observation wells; and ground-water quality for 200 wells. These data represent that part of the National Water Data System collected in and near Nebraska by the U.S. Geological Survey and cooperating Federal, State, and local agencies.

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INTRODUCTION

The Water Resources Discipline of the U.S. Geological Survey (USGS), in cooperation with State and local agencies, obtains a large amount of data pertaining to the water resources of Nebraska each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the USGS, the data are published annually in this report series entitled "Water Resources Data–Nebraska."

The Nebraska water resources data report for water year 2004 includes records of stage, discharge, and water quality of streams; water elevation and/or contents of lakes and reservoirs; and water levels and quality of ground water in wells. This report contains records of stream stage for 3 stations; stream discharge for 101 continuous and 5 crest-stage gaging stations, and 6 miscellaneous sites; stream water quality for 7 gaging stations and 40 miscellaneous sites; water elevation and/or contents for 2 lakes and 1 reservoir; ground-water levels for 74 observation wells; and ground-water quality for 200 wells. These data represent that part of the National Water Data System collected in and near Nebraska by the U.S. Geological Survey and cooperating Federal, State, and local agencies.

This series of annual reports for Nebraska began with the 1961 water year with a report that only contained data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that only contained data relating to water quality. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Beginning in 2002, this annual report is available on-line at http://water.usgs.gov/pubs/wdr/#NE. The 2004 report is also available in a CD-ROM format with many extra features.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Nebraska were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Parts 6A and 6B." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from U.S. Geological Survey, Information Services, Federal Center, MS 517, Box 25046, Denver, CO 80225, 1-888-ASK-USGS.

Additional information, including current prices, for ordering specific reports may be obtained from the Director at the address given on the back of the title page or by telephone (402) 328-4100.

COOPERATION

The U.S. Geological Survey and agencies of the State of Nebraska have had cooperative agreements for the collection of water-resource records since 1930. Organizations that assisted in collecting the data in this report through cooperative agreement with the USGS are: Nebraska Department of Natural Resources; Conservation and Survey Division, University of Nebraska-Lincoln; Big Blue River Compact Administration; Loup River Public Power District; Nebraska Public Power District; City of Lincoln; Lancaster County; the Omaha, Santee Sioux, and Winnebago tribes; and many of the Natural Resources Districts.

Assistance with funds or services was given by the U.S. Army Corps of Engineers in collecting records for 22 streamflow-gaging stations and 4 crest-stage gages, and by the U.S. Bureau of Reclamation in collecting records for 1 reservoir station.

The following organizations aided in collecting records: Nebraska Department of Natural Resources, Central Nebraska Public Power and Irrigation District, Nebraska Public Power District, and Loup River Public Power District, and all 23 Natural Resources Districts with ground-water levels.

SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow, chemical quality of streamflow, and ground-water levels are related to precipitation. The relation of these hydrologic characteristics to precipitation during water year 2004 at selected locations is discussed in this summary section.

Precipitation

Precipitation data from published reports and the web site of the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center for the eight climate divisions in Nebraska are listed in table 1. The locations of the NOAA divisions in Nebraska are shown in figure 1. Precipitation for the normal period (1971-2000), water year 2004, and departures from normal are shown for each quarter of the year to emphasize temporal as well as spatial variations of precipitation.

The precipitation totals for each division in Nebraska during water years 2002, 2003, and 2004 and normal precipitation (1971-2000) are shown in figure 2. Precipitation for water year 2004 was slightly higher than for water year 2003, but less than for water year 2002 and for the normal period in all divisions. Precipitation totals for each division for each month of water year 2004 and normal precipitation are shown in figure 3.

Only the southwest division had greater than normal average precipitation for the year. The remaining seven divisions recorded less than normal precipitation.

Streamflow

Streamflow during water year 2004 compared to long-term records at representative streamflow-gaging stations is shown in figure 1. These representative stations have drainage areas within or mostly within the eight NOAA division boundaries. The monthly mean flows for water year 2004 for each of these representative stations are compared below to the monthly mean flows for the long-term record for each of these stations and to the precipitation data for the appropriate NOAA divisions. Although a station may lie outside a division boundary, the comparison of flow is made to the current year's precipitation within the division where most of the drainage area lies.

The individual graphs demonstrate the varied streamflow conditions in the State during water year 2004. For stations with significant streamflow regulation—06461500 (Niobrara River near Sparks), 06805555 (Salt Creek at Greenwood) and 06844500 (Republican River at Orleans)—the period of record used for the long-term mean is from the completion of the last known relatively substantial storage structure or from the latest change in streamflow regulation upstream from the gage. For the following discussion, refer to figure 1 for streamflow data and to figure 3 and table 1 for precipitation data.

Station 06461500, Niobrara River near Sparks, lies east of the Panhandle division, but most of its drainage area is in the Panhandle division. Streamflow was near normal for the entire year.

Station 06786000, North Loup River at Taylor, located in the southern part of the North Central division, receives runoff from the Sandhills in the west-central to south-central parts of the division. Streamflow was near normal for the entire year.

Station 06800500, Elkhorn River at Waterloo, is located in the East Central division of the State. Its drainage area includes the eastern part of the North Central division, as well as most of the Northeast division and part of the East Central division. Streamflow was near normal for the entire year.

Station 06784000, South Loup River at St. Michael, is located near the southern edge of the Sandhills region in the Central division of the State. Streamflow was less than the long-term mean in all months except July.

Station 06803555, Salt Creek at Greenwood, is located in and receives runoff almost entirely from the East Central division. Discharge was slightly below normal for the year except for May, when discharge was slightly higher than the monthly mean.

Station 06844500, Republican River near Orleans lies slightly east of the Southwest division and has a drainage area encompassing most of the Southwest division as well as parts of northeastern Colorado and northwestern Kansas. Only a little more than 50 percent of the area contributes to surface runoff. Monthly streamflow was substantially less than the long-term record for the entire water year.

Station 06883000, Little Blue River near Deweese, is located in the Southeast division, but it receives runoff from areas mostly in the South Central division. Flows were slightly below the long-term mean for the entire year.

Station 06815000, Big Nemaha River at Falls City, located in the southeast part of the Southeast division, receives runoff from the eastern part of the division. Monthly streamflow at this gaging station was near normal November through March, but substantially less than the monthly mean for the remaining months.

Table 1. Average precipitation and departures from normal, water year 2004

[All values are in inches. Period of record for normal, 1971-2000. Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center published reports (Climatology of the United States No. 85, and monthly and annual reports of Climatological Data-Nebraska) and web site (http://www.ncdc.noaa.gov/oa/climate/datasel.html (U.S. Monthly by Climate Division (1895-Present)), accessed March 23, 2005]

Climate divisions for Nebraska	Precipitation														
	First quarter (October-December 2003)			Second quarter (January-March 2004)			Third quarter (April-June 2004)			Fourth quarter (July-September 2004)			Annual Totals		
	Normal	Actual	Depar-ture	Normal	Actual	Depar-ture	Normal	Actual	Depar-ture	Normal	Actual	Depar-ture	Normal	Actual	Depar-ture
Panhandle	2.12	1.36	-0.76	1.92	1.50	-0.42	7.62	5.23	-2.39	5.52	7.46	1.94	17.18	15.55	-1.63
North Central	3.04	191	-1.13	2.50	2.87	0.37	9.36	8.30	-1.06	7.84	8.75	0.91	22.74	21.83	-0.91
Northeast	4.10	2.27	-1.83	3.25	4.57	1.32	10.87	11.12	0.25	8.84	9.03	0.19	27.06	26.99	-0.07
Central	3.35	1.94	-1.41	2.98	3.26	0.28	10.23	8.33	-1.90	8.36	10.73	2.37	24.92	24.26	-0.66
East Central	4.65	3.35	-1.30	3.62	5.99	2.37	11.50	8.61	-2.89	9.81	8.88	-0.93	29.58	26.83	-2.75
Southwest	2.54	0.98	-1.56	2.33	2.02	-0.31	8.45	7.09	-1.36	6.87	10.87	4.00	20.19	20.96	0.77
South Central	3.27	1.46	-1.81	2.94	3.76	0.82	9.74	6.81	-2.93	8.88	10.52	1.64	24.83	22.55	-2.28
Southeast	4.95	4.97	0.02	3.92	6.39	2.47	11.17	10.92	-0.25	10.99	7.83	-3.16	31.03	30.11	-0.92

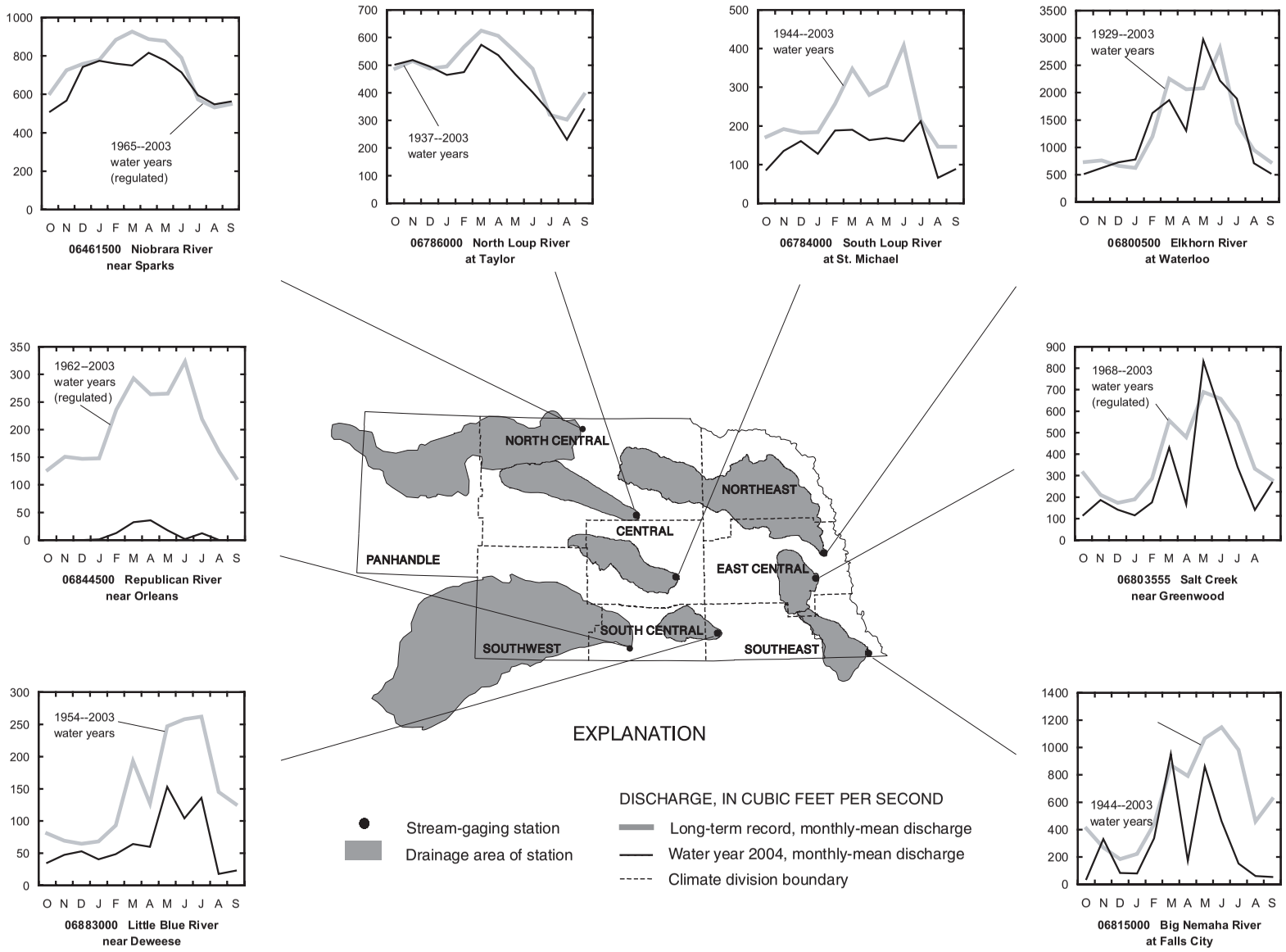

Figure 1. Streamflow data for selected stream-gaging stations to compare water year 2004 with the long-term record. Refer to corresponding precipitation data (fig. 3).

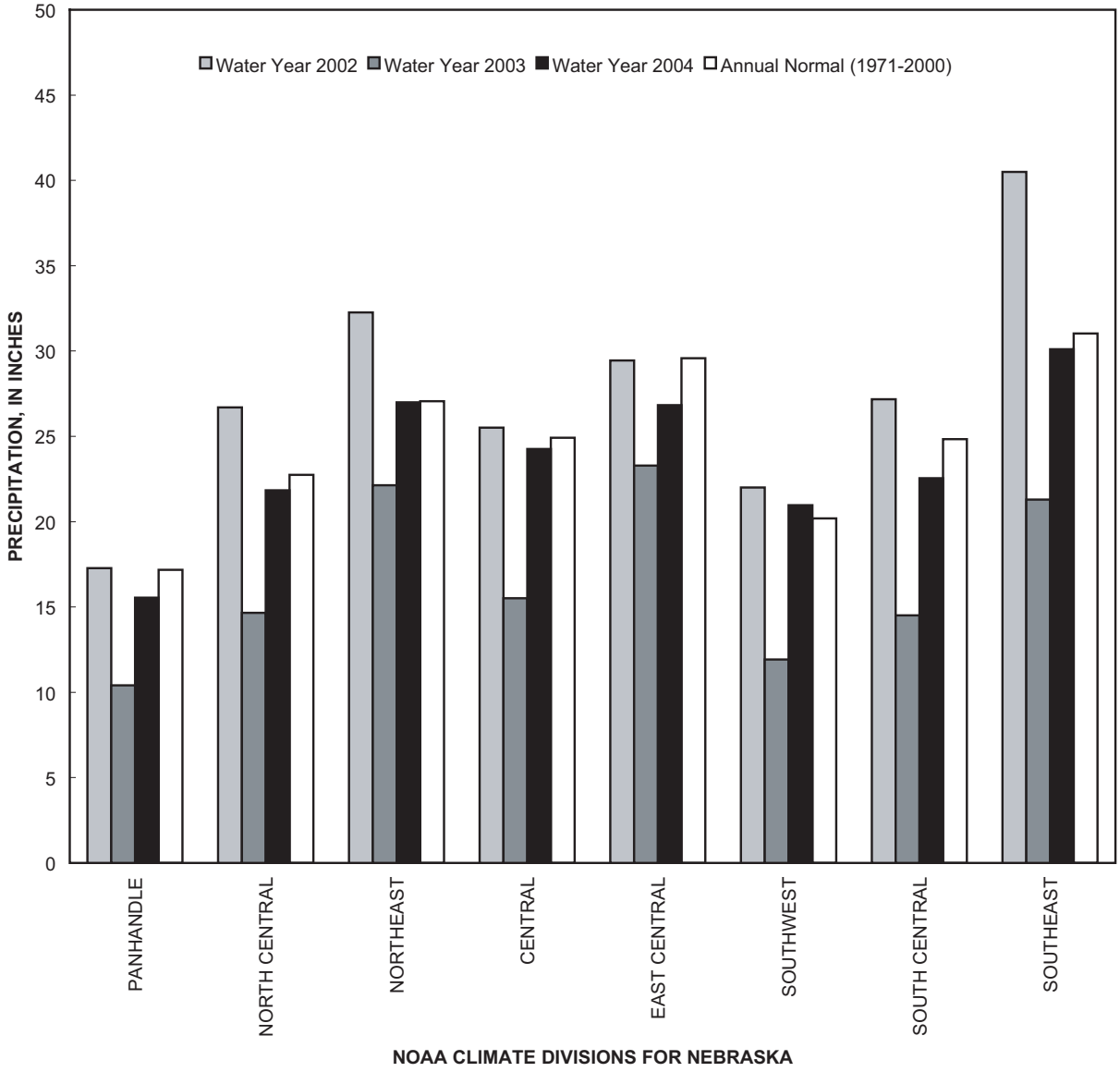

Figure 2. Precipitation for water years 2002–2004 and normal precipitation (1971–2000) for the eight National Oceanic and Atmospheric Administration climate divisions in Nebraska.

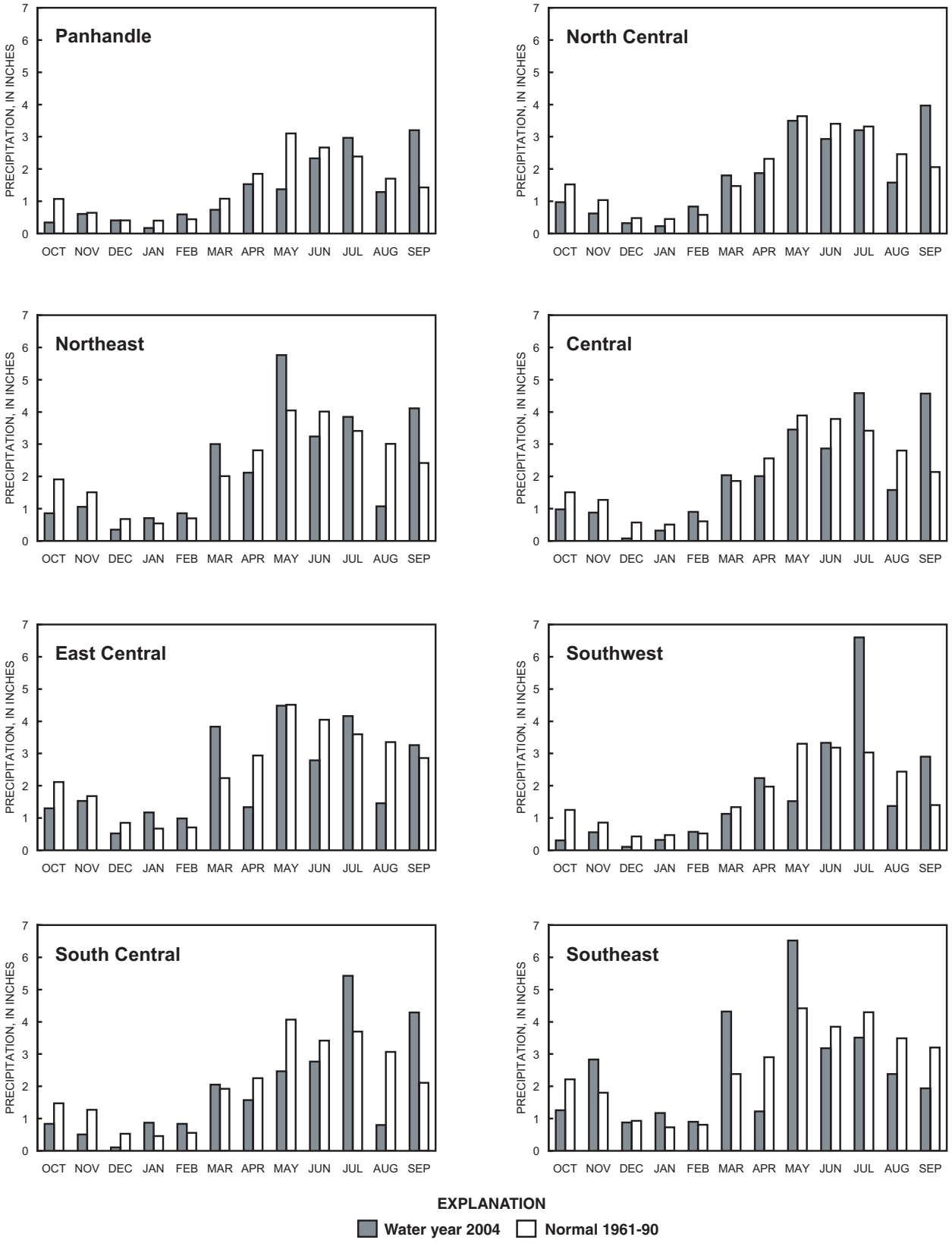

Figure 3. Monthly precipitation for water year 2004 and normal precipitation (1971–2000) for each National Oceanic and Atmospheric Administration climate division in Nebraska.

Water Quality

Water samples were collected to determine the water quality at various surface- and ground-water quality stations around the State. Parameters measured routinely include specific conductance, pH, temperature (both water and air), barometric pressure, dissolved oxygen, suspended sediment, bacteria, nutrients, pesticides, major ions, and other parameters of interest.

Generally, the concentration of dissolved solids (which includes major ions) in streams is related inversely to streamflow. Large streamflows resulting from snowmelt and rainfall runoff have smaller dissolved-solids concentrations per unit volume, whereas small streamflows, composed largely of ground-water discharge to streams (base flow), have larger dissolved-solids concentrations. This inverse relation between dissolved solids and streamflow is less pronounced at stations downstream from lakes and reservoirs, where two components of flow (runoff and base flow) can be retained and mixed.

The presence of nutrients in surface water is recognized as a major factor in growth of aquatic plants. The contribution of nutrients, commonly resulting from application of agricultural fertilizers, to surface water can result in biological enrichment of algae and other aquatic plant growth. Dissolved oxygen in streams is essential for the survival of most aquatic organisms and plays an important role in the decomposition of wastes. Suspended-sediment concentration is directly related to stream turbidity and generally increases with stream discharge as a result of eroded sediment transported by runoff.

Ground-Water Levels

Water-level changes during water year 2004 were determined from a statewide network of observation wells measured by 28 Federal, State, and local agencies. The network consists of approximately 3,000 wells measured annually, semiannually, or monthly and approximately 79 wells equipped with continuous recorders. Data from 74 observation wells equipped with continuous recorders are included in this report.

In areas of Nebraska where ground water is not affected substantially by irrigation, most water-level fluctuations are caused by variations in natural recharge to and discharge from the aquifers. In these areas, water levels commonly rise during the fall and winter months, when recharge from precipitation exceeds discharge by seepage to streams and by evapotranspiration. Water levels generally decline during the spring and summer months, when discharge by seepage to streams and by evapotranspiration is greater than recharge from precipitation.

Because of the importance of ground water as a source for irrigation and municipal supplies, most observation wells in Nebraska are located in those areas where large quantities of ground water are withdrawn. Water-level fluctuations from five such recorder wells for water years 2003 and 2004 are shown in figure 4. In water year 2004, total precipitation was less than normal in all divisions except the southwest (fig. 2), providing less water for recharge to the aquifers. To varying degrees, all five wells show declining water levels from 2003 to the 2004 water year.

Typically, ground-water levels for these wells reach their highest levels in early to late spring (April through June) prior to ground-water withdrawals for irrigation, which causes sharp declines in water levels until August or September. Exceptions to this can occur when leakage from surface-water irrigation canals, typically operating from May-June through September, recharge shallow aquifers and offset some of the loss from irrigation withdrawals.

The hydrograph for the observation well in Scotts Bluff County (fig. 4) shows the influences of recharge from nearby surface-water irrigation canals. The water-level fluctuations are much less for this well than the other four, and the decline from water year 2003 to 2004 is less than 1 foot based on the maximum and minimum levels for each year.

Water-level fluctuations for an observation well in Holt County (fig. 4) are generally representative of water-level fluctuations in wells in the North-Central division of the State. Recharge was about 2 ft less than 2003.

The hydrograph for the Buffalo County well (fig. 4), which generally is representative of hydrographs for wells in the Central division, shows that precipitation was not substantial enough to recharge the aquifer sufficiently. Insufficient precipitation coupled with ground-water withdrawals for irrigation resulted in a steady decline in 2003, followed by only a small recovery and then another steady decline in water year 2004. Overall decline from 2003 to 2004 ranged from about 3 to 5 feet.

The hydrograph for the observation well in Seward County (fig. 4) is generally representative of water-level fluctuations that occurred in the East Central division of the State during water years 2003 and 2004. Precipitation for water year 2004 was 93 percent of normal. Cessation of ground-water withdrawals for irrigation and recharge after August 2003 resulted in a recovery of about 5 feet. Following the start-up of withdrawals in 2004, levels declined by about 4 feet. The overall decline from 2003 to 2004, based on maximum and minimum levels for each year was negligable; however, recoveries from 2003 withdrawals were about 2 ft less than the previous year.

Water-level fluctuations shown for an observation well in Chase County (fig. 4) are representative of those that occurred in irrigated areas in the Southwest division of the State during water years 2003 and 2004. Precipitation was near normal in the Southwest division for the year (table 1). Ground-water levels recovered about 4 feet from the lowest level in 2003 by the beginning of the 2004 irrigation season. Water levels declined about 4 ft after irrigation began.

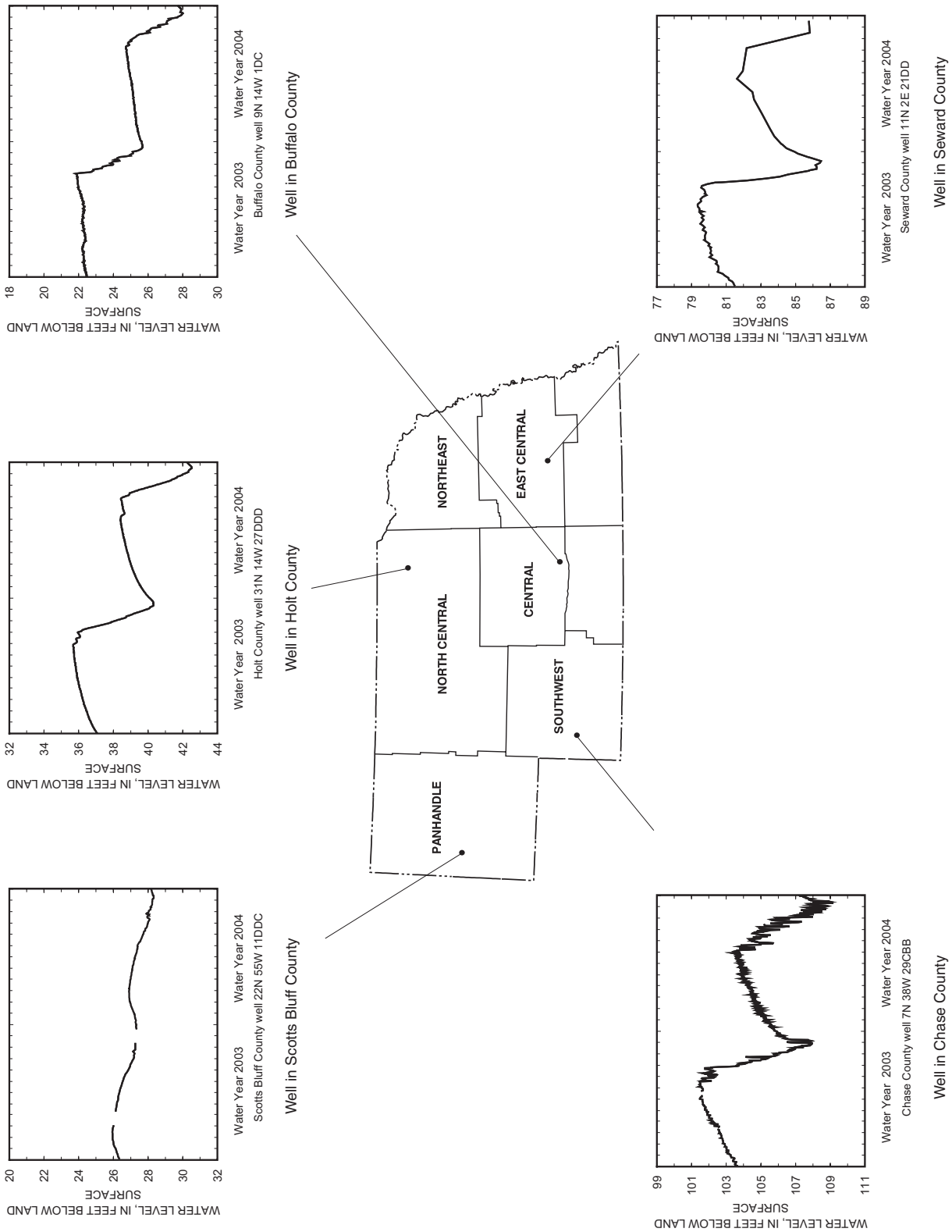

Figure 4. Water levels in selected observation wells, water years 2003 and 2004.

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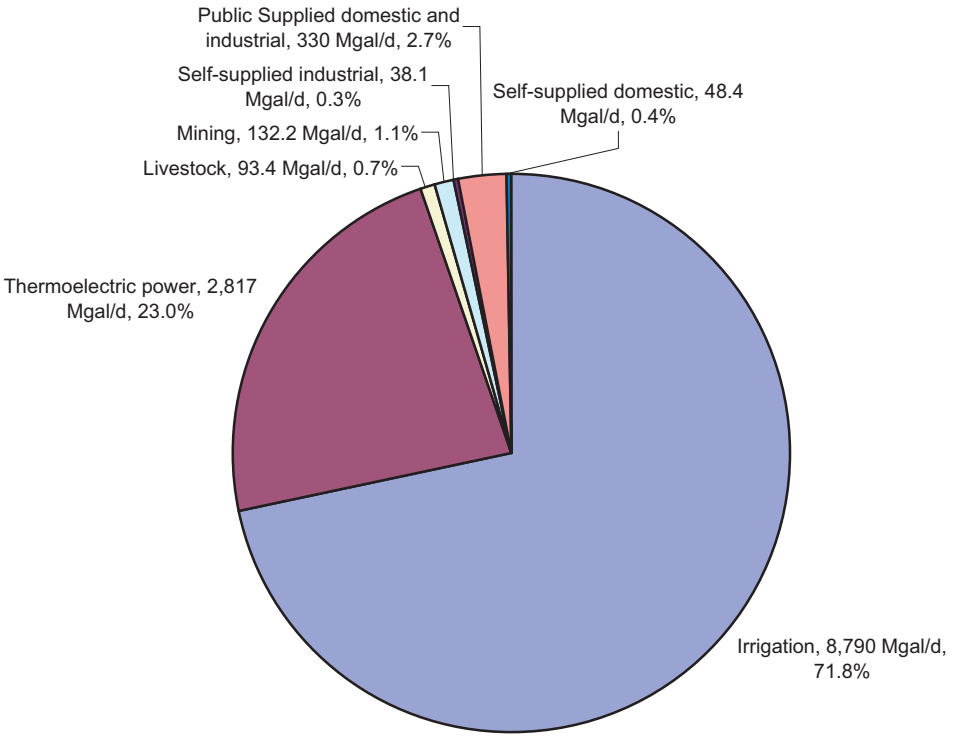
WATER USE

General water-use facts for the State of Nebraska for the year 1995 are listed below. Water-use information is collected and published every 5 years.

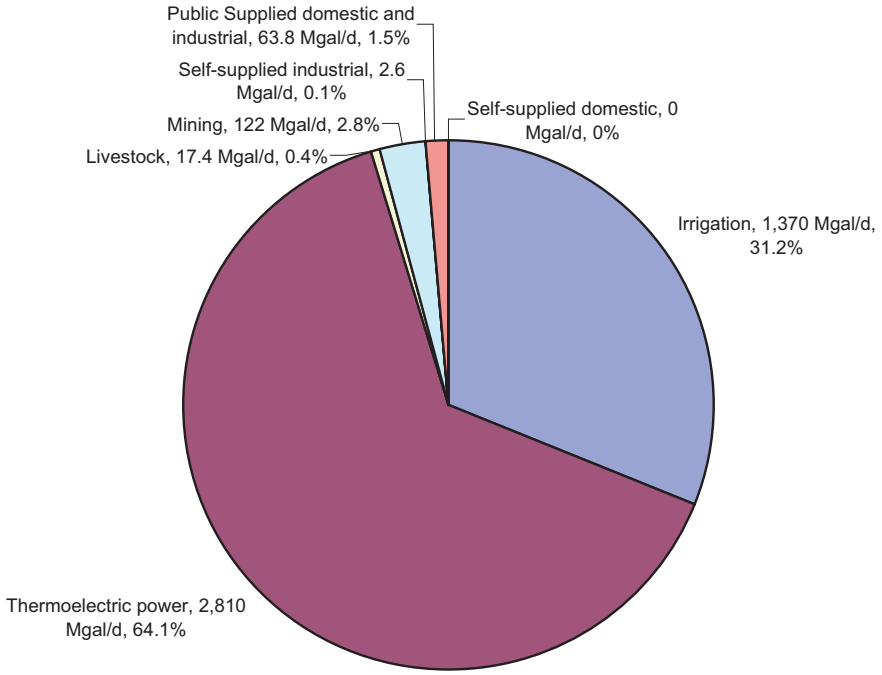
- Total water use in Nebraska was 12,300 million gallons per day (Mgal/d).
- Surface-water use was 4,390 Mgal/d, or 35.9 percent of total water use.
- Ground-water use was 7,860 Mgal/d, or 64.2 percent of total water use, of which 5,776.60 Mgal/d or 93.1 percent was used for irrigation.
- As hydroelectric use of surface water was not calculated, the largest use of water in Nebraska was for irrigation, with 8,790 Mgal/d or 71.8 percent of all water use.
- Total population for 2000 was 1.910 million; total population for 1990 was 1.58 million, a 4.2% increase since 1995.
- Industrial water use was 38.1 Mgal/d, or less than 1 percent of total water use.
- Livestock water use was 93.4 Mgal/d, or 0.8 percent of all use.
- Thermoelectric water use was 2,820 Mgal/d.
- Public-supplied water used for industrial and domestic use was about 330 Mgal/d.

[From Hutson, S.S., Barber, N.L., Kenny. J.F., Linsey, K.S., Lumia, D.S. and Maupin, M.A., Estimated use of water in the United States in 2000: U.S. Geological Survey Circular 1268, 15 p., http://water.usgs.gov/pubs/circ/2004/circ1268/]



A

Figure 5. Estimated water use in Nebraska, 2000, (A) estimated total water use, (B) estimated total surface-water use, and (C) estimated total ground-water use.



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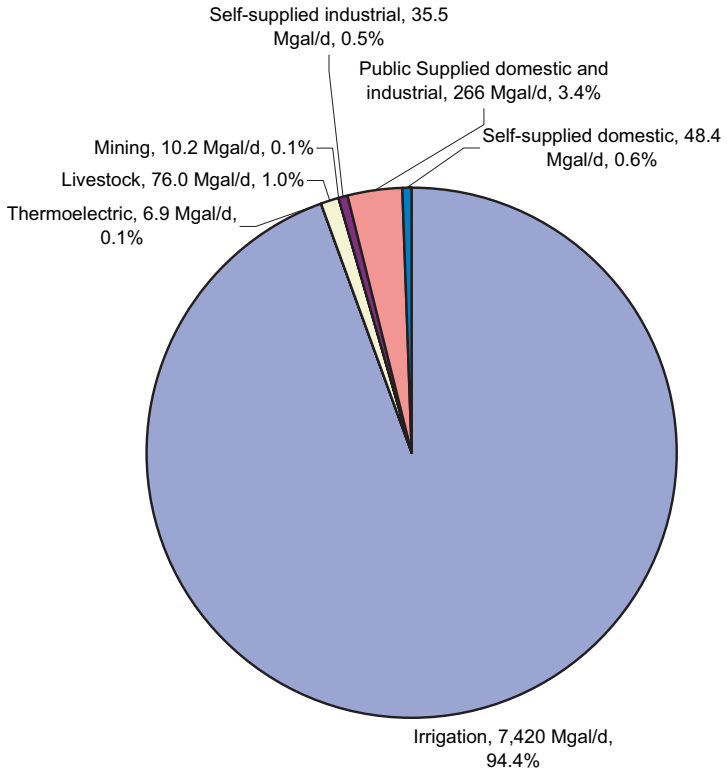


C

Figure 5. Estimated water use in Nebraska, 2000, (A) estimated total water use, (B) estimated total surface-water use, and (C) estimated total ground-water use—Continued.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, hydrologic-station records in USGS reports have been listed in order of downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary entering between two main-stream stations is listed between those stations. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is located with respect to the stream to which it is immediately tributary is indicated by an indention in that list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation indicates which stations are on tributaries between any two stations and the rank of the tributary on which each station is located.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list composed of both types of stations. Gaps are consecutive. The complete 8-digit (or 10-digit) number for each station such as 09004100, which appears just to the left of the station name, includes a 2-digit part number “09” plus the 6-digit (or 8-digit) downstream order number “004100.” In areas of high station density, an additional two digits may be added to the station identification number to yield a 10-digit number. The stations are numbered in downstream order as described above between stations of consecutive 8-digit numbers.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The USGS well and miscellaneous site-numbering system is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude; the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, a sequential number such as “01,” “02,” and so forth, would be assigned as one would for wells (see fig. 6). The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

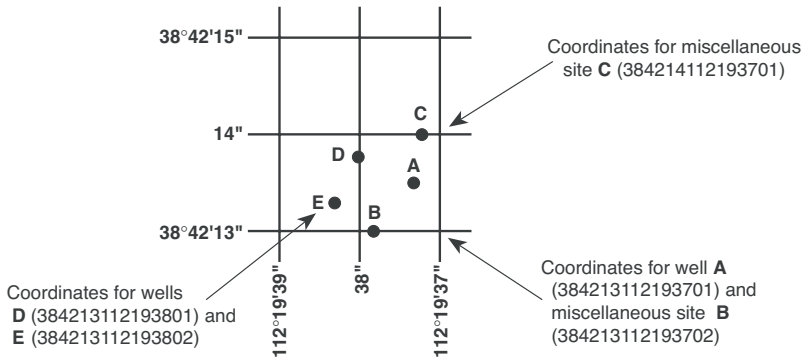


Figure 6. System for numbering wells and miscellaneous sites (latitude and longitude).

In addition to the well number that is based on the latitude and longitude for each well, another well number may be provided which in many states is based on the Public Land Survey System, a set of rectangular surveys that is used to identify land parcels. This well number is familiar to the water users of Nebraska and shows the location of the well by quadrant, township, range section, and position within the section (see fig. 7). The capital letter at the beginning of the location number indicates the quadrant in which the well is located. Four quadrants are formed by the intersection of the base line and the principal meridian—A indicates the northeast quadrant, B the northwest, C the southwest, and D the southeast. The first numeral indicates the township, the second the range, and the third the section in which the well is located. Lowercase letters following the section number locate the well within the section. The first letter denotes the quarter section, the second the quarter-quarter section, and the third the quarter-quarter-quarter section. The letters are assigned within the section in a counter-clockwise direction beginning with (a) in the northeast quarter of the section. Letters are assigned within each quarter section and quarter-quarter section in the same manner. Where two or more wells are located within the smallest subdivision, consecutive numbers beginning with 1 are added to the letters in the order in which the wells are inventoried. For example, 17N 44W 29DAAA1 indicates a well in the northeast quarter of the northeast quarter of the northeast quarter of the southeast quarter of sec. 29, T. 17N., R.44 W., and shows that this is the first well inventoried in the quarter-quarter-quarter-quarter section.

Location of water wells also is based on the land-net subdivisions in the Bureau of Land Management's (BLM) survey of Nebraska (fig. 7). The number preceding N (north) indicates the township or tier, the numeral preceding E (east) or W (west) indicates the range, and the number preceding the terminal letters indicates the section in which the well is located (17N 44W 29DAAA1, for example). The terminal letters designated A, B, C, and D, denote the quarter section, the quarter-quarter section, the quarter-quarter-quarter section, and the quarter-quarter-quarter-quarter section. The designation is given in a counterclockwise direction beginning with "A" in the northeast corner of each subdivision.

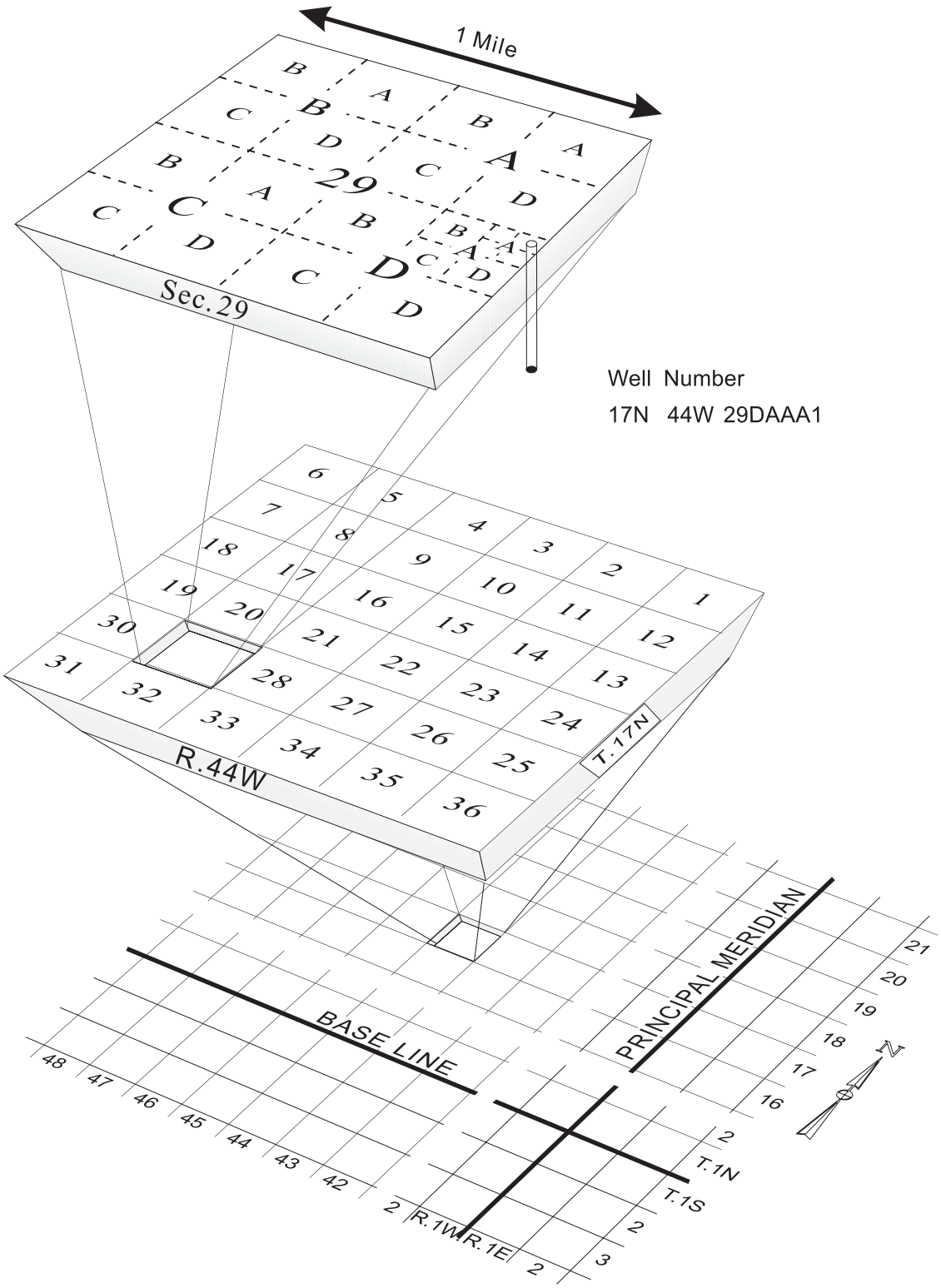


Figure 7. System for numbering wells and miscellaneous sites (township and range).

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from *http://water.usgs.gov/hbn/*.

National Stream-Quality Accounting Network (NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment (NAWQA) Program; (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program may be accessed from *http://water.usgs.gov/nasqan/*.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) is a network of monitoring sites that provide continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from *http://bqs.usgs.gov/acidrain/*.

The USGS National Water-Quality Assessment (NAWQA) Program is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; to provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and to provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 42 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents is measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a

wide range of spatial and temporal scales will provide information for water-resources managers to use in making decisions and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State, and local water-resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program may be accessed from *http://water.usgs.gov/nawqa/*.

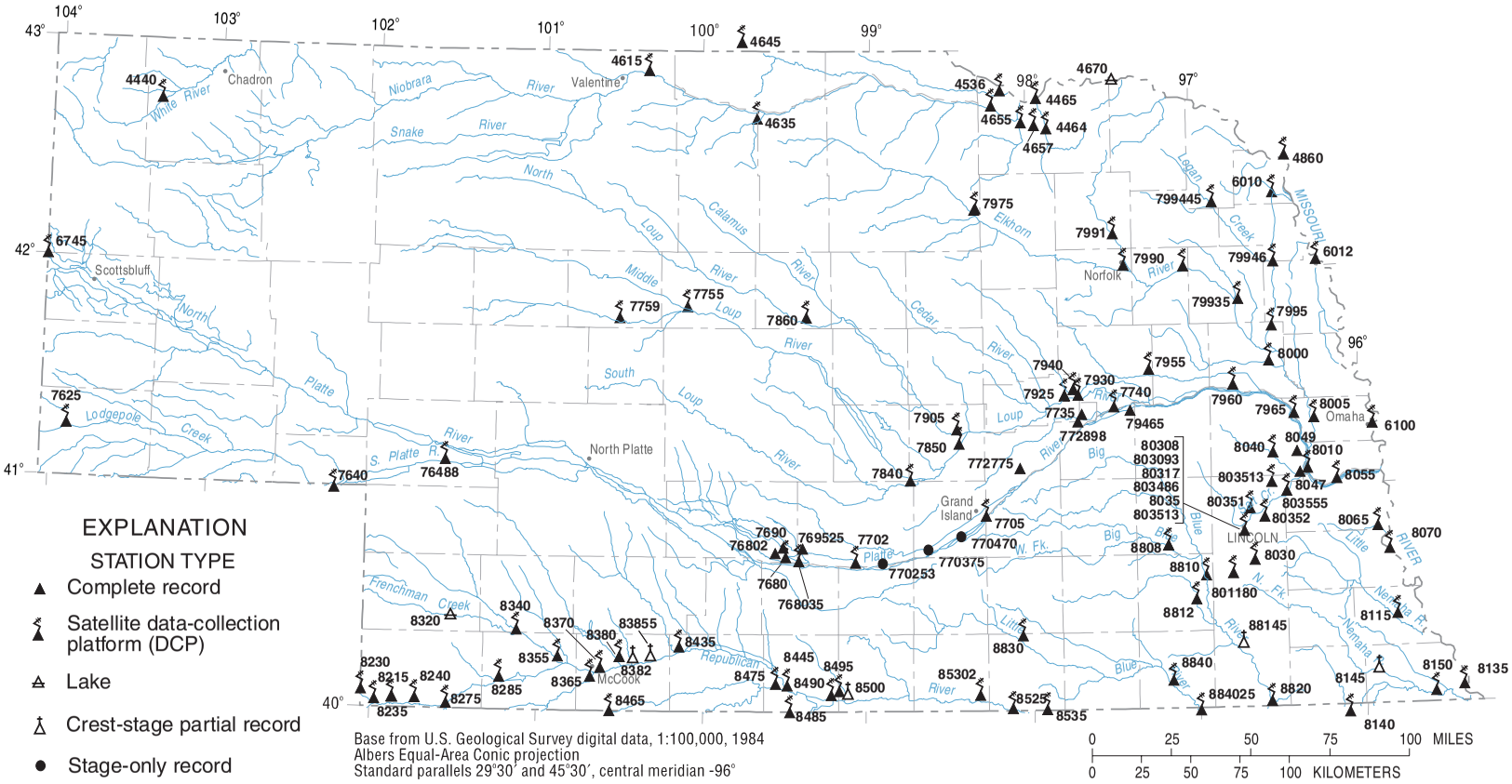
The USGS National Streamflow Information Program (NSIP) is a long-term program with goals to provide framework streamflow data across the Nation. Included in the program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from *http://water.usgs.gov/nsip/*.

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Data Collection and Computation

The base data collected at gaging stations (fig. 8) consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume 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 is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with a current meter or acoustic Doppler current profiler, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2, which may be accessed from *http://water.usgs.gov/pubs/twri/*. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standardization (ISO).

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors based on individual discharge measurements and notes by engineers and observers are used when 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 controlling section, the daily mean discharge is computed by the shifting-control method.



8230 Abbreviated station number

Note: To change abbreviated station number to complete station number, prefix with "06" and add zero's required to give eight digits.

Figure 8. Location of active surface-water gaging stations.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage at some distance from the base gage.

An index velocity is measured using ultrasonic or acoustic instruments at some stream-gaging stations and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, stage-discharge relation is affected by changing stage. At these stations, the rate of change in stage is used as a factor in computing discharge.

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

For a lake or reservoir station, capacity tables giving the volume or contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly changes are 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 stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the 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, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of five parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; and (5) a hydrograph of discharge.

Station Manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments follow that clarify information presented under the various headings of the station description.

LOCATION.—Location information is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.—Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.—This term indicates the time period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that its flow reasonably can be considered equivalent to flow at the present station.

REVISED RECORDS.—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

GAGE.—The type of gage in current use, the datum of the current gage referred to a standard datum, and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.—All periods of estimated daily discharge either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, the outlet works and spillway, and the purpose and use of the reservoir.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.—Information here documents major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the USGS.

REVISIONS.—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (*http://water.usgs.gov/nwis/nwis*). Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations to document the revision in a REVISED RECORDS entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the Water Science Center (address given on the back of the title page of this report) to determine if the published records were revised after the station was discontinued. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. Any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the REMARKS and in the inclusion of a stage-capacity table when daily volumes are given.

Peak Discharge Greater than Base Discharge

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

Data Table of Daily Mean Values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed TOTAL gives the sum of the daily figures for each month; the line headed MEAN gives the arithmetic average flow in cubic feet per second for the month; and the lines headed MAX and MIN give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month is 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). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect or if the drainage area includes large noncontributing areas. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir volumes are given. These values are identified by a symbol and a corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (MIN) of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those values. The designated period will be expressed as FOR WATER YEARS __-__, BY WATER YEAR (WY), and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. The designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript.

Summary Statistics

A table titled SUMMARY STATISTICS follows the statistics of monthly mean data tabulation. This table consists of four columns with the first column containing the line headings of the statistics being

reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, WATER YEARS __-__, will consist of all of the station records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the ANNUAL 7-DAY MINIMUM statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When the dates of occurrence do not fall within the selected water years listed in the heading, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration-curve statistics and runoff data also are given. Runoff data may be omitted if extensive regulation or diversion of flow is in effect in the drainage basin.

The following summary statistics data are provided with each continuous record of discharge. Comments that follow clarify information presented under the various line headings of the SUMMARY STATISTICS table.

ANNUAL TOTAL.—The sum of the daily mean values of discharge for the year.

ANNUAL MEAN.—The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

HIGHEST ANNUAL MEAN.—The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.—The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.—The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.—The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.—The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. This value should not be confused with the 7-day 10-year low-flow statistic.

MAXIMUM PEAK FLOW.—The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.—The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.—Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

> Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.
>
> Cubic feet per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.
>
> Inches (INCHES) indicate the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.—The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.—The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.—The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first table lists annual maximum stage and discharge at crest-stage stations, and the second table lists discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified. This identification is shown either by flagging individual daily values with the letter “e” and noting in a table footnote, “e–Estimated,” or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of Field Data and Computed Results

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

The degree of accuracy of the records is stated in the REMARKS in the station description. “Excellent” indicates that about 95 percent of the daily discharges are within 5 percent of the true value; “good” within 10 percent; and “fair,” within 15 percent. “Poor” indicates that daily discharges have less than “fair” accuracy. Different accuracies may be attributed to different parts of a given record.

Values 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 ft^3/s; to the nearest tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge values listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, values of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. 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 losses are large in comparison with the observed discharge.

Other Data Records Available

Information of a more detailed nature than that published for most of the stream-gaging stations such as discharge measurements, gage-height records, and rating tables is available from the Water Science Center. Also, most stream-gaging station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the Water Science Center (see address that is shown on the back of the title page of this report).

EXPLANATION OF PRECIPITATION RECORDS

Data Collection and Computation

Rainfall data generally are collected using electronic data loggers that measure the rainfall in 0.01-inch increments every 15 minutes using either a tipping-bucket rain gage or a collection well gage. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight of the previous day to midnight of the current day. Snowfall-affected data can result during cold weather when snow fills the rain-gage funnel and then melts as temperatures rise. Snowfall-affected data are subject to errors. Missing values are indicated by this symbol “---” in the table.

Data Presentation

Precipitation records collected at surface-water gaging stations are identified with the same station number and name as the stream-gaging station. Where a surface-water daily-record station is not available, the precipitation record is published with its own name and latitude-longitude identification number.

Information pertinent to the history of a precipitation station is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, period of record, and general remarks.

The following information is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

INSTRUMENTATION.—Information on the type of rainfall collection system is given.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of records.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

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

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

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

Water Analysis

Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*.

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

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

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values (and sometimes mean or median values) for each constituent measured, and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

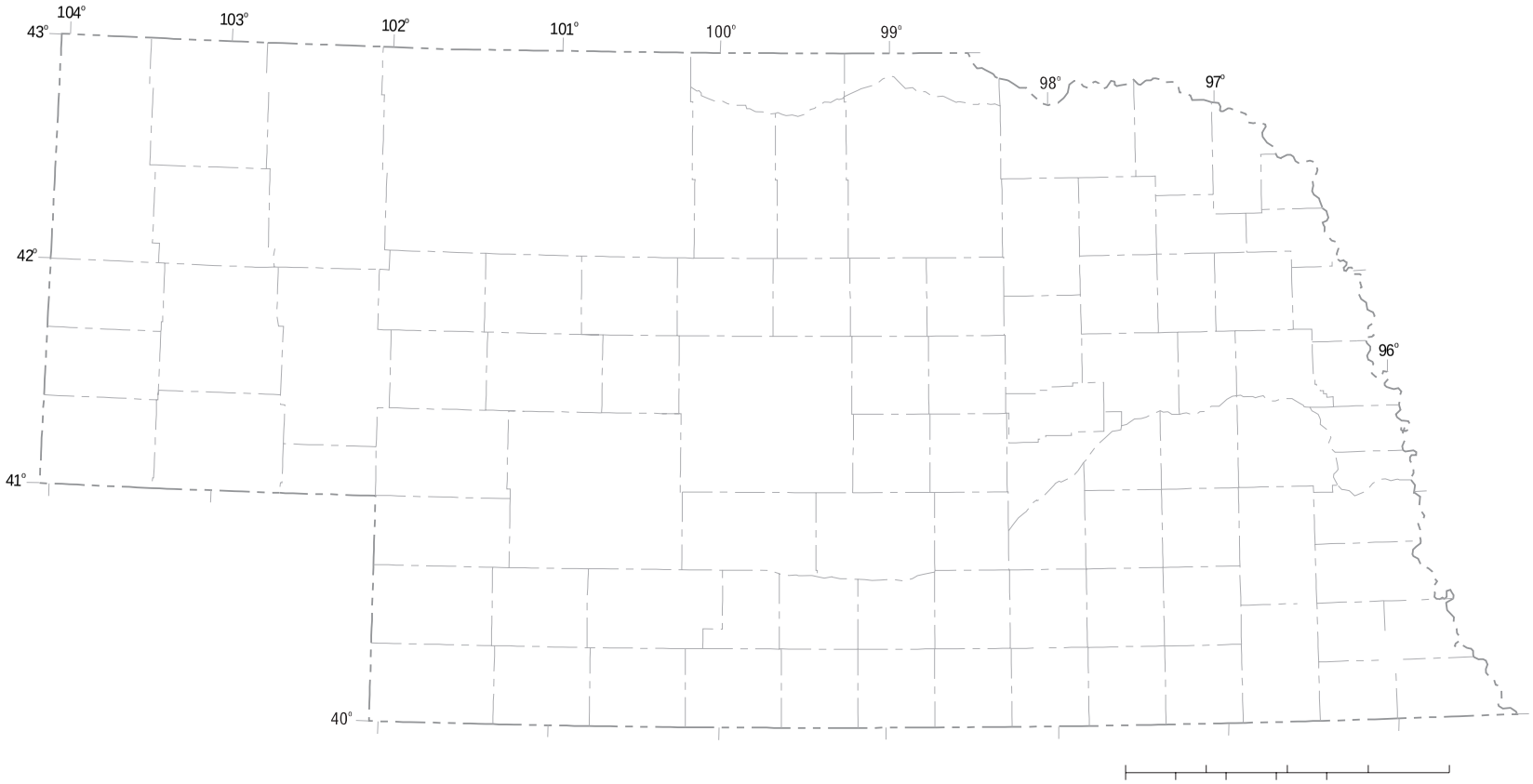
SURFACE-WATER-QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data is useful in the interpretation of surface-water quality. Records of surface-water quality in this report involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A *continuous-record station* is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A *partial-record station* is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A *miscellaneous sampling site* is a location other than a continuous- or partial-record station, where samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between *continuous records* as used in this report and *continuous recordings* that refer to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 9 and 10.


104°
103°
102°
101°
100°
99°
98°
97°
96°
43°
42°
41°
40°

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Rating classifications for continuous water-quality records

[≤, less than or equal to; ±, plus or minus value shown; °C, degree Celsius; >, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Measured physical property	Rating			
	Excellent	Good	Fair	Poor
Water temperature	≤ ±0.2 °C	> ±0.2 to 0.5 °C	> ±0.5 to 0.8 °C	> ±0.8 °C
Specific conductance	≤ ±3%	> ±3 to 10%	> ±10 to 15%	> ±15%
Dissolved oxygen	≤ ±0.3 mg/L	> ±0.3 to 0.5 mg/L	> ±0.5 to 0.8 mg/L	> ±0.8 mg/L
pH	≤ ±0.2 unit	> ±0.2 to 0.5 unit	> ±0.5 to 0.8 unit	> ±0.8 unit
Turbidity	≤ ±5%	> ±5 to 10%	> ±10 to 15%	> ±15%

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1-A9. Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from http://water.usgs.gov/pubs/twri/. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS Water Science Center (see address that is shown on the back of title page in this report).

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same

time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the Water Science Center.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may be collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

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

Laboratory Measurements

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the USGS laboratories are given in the TWRIs, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. The TWRI publications may be accessed from *http://water.usgs.gov/pubs/twri/*. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of “daily values” of

specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—This indicates the time periods for which published water-quality records for the station are available. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.—Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (*http://waterdata.usgs.gov/nwis*). Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent updates. Updates to the NWISWeb are made on an annual basis.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this section:

Printed Output	Remark
E	Value is estimated.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.

Water-Quality Control Data

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDLs) and laboratory reporting levels (LRLs). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a non-detection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as less than LRL for samples in which the analyte was either not detected or did not pass identification. Analytes detected at concentrations between the LT-MDL and the LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of “E.” These data should be used with the understanding that their uncertainty is greater than that of data reported without the E remark code.

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this Water Science Center are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples. These data are not presented in this report but are available from the Water Science Center.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in the overall data-collection process. The blank solution used to develop specific types of

blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

Field blank—A blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank—A blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank—A blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank—A blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank—A blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank—A blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank—A blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory. The reference material composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. Many types of replicate samples are possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Concurrent samples—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

Sequential samples—A type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample—A type of replicate sample in which a sample is split into subsamples, each subsample contemporaneous in time and space.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Generally, only ground-water-level data from selected wells with continuous recorders from a basic network of observation wells are published in this report. This basic network contains observation wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

Site Identification Numbers

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is produced for local needs. (See NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES in this report for a detailed explanation).

Data Collection and Computation

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Most methods for collecting and analyzing water samples are described in the TWRIs referred to in the On-site Measurements and Sample Collection and the Laboratory Measurements sections in this report. In addition, TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1 through A9. The TWRI publications may be accessed from *http://water.usgs.gov/pubs/twri/*. The values in this report represent water-quality conditions at the time of sampling, as much as possible, and that are consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. Trained personnel collected all samples. The wells sampled were pumped long enough to ensure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum above sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

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

Data Presentation

Water-level data are presented in alphabetical order by county. The primary identification number for a given well is the 15-digit site identification number that appears in the upper left corner of the table. The secondary identification number is the local or county well number. Well locations are shown in figure 4; each well is identified on the map by its local well or county well number.

Each well record consists of three parts: the well description, the data table of water levels observed during the water year, and, for most wells, a hydrograph following the data table. Well descriptions are presented in the headings preceding the tabular data.

The following comments clarify information presented in these various headings.

LOCATION.—This paragraph follows the well-identification number and reports the hydrologic-unit number and a geographic point of reference. Latitudes and longitudes used in this report are reported as North American Datum of 1927 unless otherwise specified.

AQUIFER.—This entry designates by name and geologic age the aquifer that the well taps.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, casing diameter and depth or screened interval, method of construction, use, and changes since construction.

INSTRUMENTATION.—This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on continuous, monthly, or some other frequency of measurement.

DATUM.—This entry describes both the measuring point and the land-surface elevation at the well. The altitude of the land-surface datum is described in feet above the altitude datum; it is reported with a precision depending on the method of determination. The measuring point is described physically (such as top of casing, top of instrument shelf, and so forth), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above National Geodetic Vertical Datum of 1929 (NGVD 29); it is reported with a precision depending on the method of determination.

REMARKS.—This entry describes factors that may influence the water level in a well or the measurement of the water level, when various methods of measurement were begun, and the network (climatic, terrane, local, or areal effects) or the special project to which the well belongs.

PERIOD OF RECORD.—This entry indicates the time period for which records are published for the well, the month and year at the start of publication of water-level records by the USGS, and the words “to current year” if the records are to be continued into the following year. Time periods for which water-level records are available, but are not published by the USGS, may be noted.

EXTREMES FOR PERIOD OF RECORD.—This entry contains the highest and lowest instantaneously recorded or measured water levels of the period of published record, with respect to land-surface datum or sea level, and the dates of occurrence.

Water-Level Tables

A table of water levels follows the well description for each well. Water-level measurements in this report are given in feet with reference to either sea level or land-surface datum (lsd). Missing records are indicated by dashes in place of the water-level value.

For wells not equipped with recorders, water-level measurements were obtained periodically by steel or electric tape. Tables of periodic water-level measurements in these wells show the date of measurement and the measured water-level value.

Hydrographs

Hydrographs are a graphic display of water-level fluctuations over a period of time. In this report, current water year and, when appropriate, period-of-record hydrographs are shown. Hydrographs that display periodic water-level measurements show points that may be connected with a dashed line from one measurement to the next. Hydrographs that display recorder data show a solid line representing the mean water level recorded for each day. Missing data are indicated by a blank space or break in a hydrograph. Missing data may occur as a result of recorder malfunctions, battery failures, or mechanical problems related to the response of the recorder's float mechanism to water-level fluctuations in a well.

GROUND-WATER-QUALITY DATA

Data Collection and Computation

The ground-water-quality data in this report were obtained as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some wells within a county but not for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide.

Most methods for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRI, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. Also, detailed information on collecting, treating, and shipping samples may be obtained from the USGS Water Science Center (see address shown on back of title page in this report).

Laboratory Measurements

Analysis for sulfide and measurement of alkalinity, pH, water temperature, specific conductance, and dissolved oxygen are performed on site. All other sample analyses are performed at the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used by the USGS laboratory are given in TWRI, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4, which may be accessed from *http://water.usgs.gov/pubs/twri/*.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the World Wide Web (WWW). These data may be accessed from *http://water.usgs.gov*.

Water-quality data and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each Water Science Center (See address that is shown on the back of the title page of this report.)

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, and precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units. Other glossaries that also define water-related terms are accessible from *http://water.usgs.gov/glossaries.html*.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

Adenosine triphosphate (ATP) is an organic, phosphate-rich compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Adjusted discharge is discharge data that have been mathematically adjusted (for example, to remove the effects of a daily tide cycle or reservoir storage).

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample. (See also "Biomass" and "Dry weight")

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day, 10-year low-flow statistic.)

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type, and the last two digits represent the percentage weight of the hydrogen-substituted chlorine.

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

Ash mass is the mass or amount of residue present after the residue from a dry-mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2). (See also "Biomass" and "Dry mass")

Aspect is the direction toward which a slope faces with respect to the compass.

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

Bankfull stage, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peak flows per year will be published. (See also "Peak flow")

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed. (See also "Bedload" and "Sediment")

Bedload is material in transport that primarily is supported by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to the top of the bedload sampler nozzle (an elevation ranging from 0.25 to 0.5 foot). These particles are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

Bedload discharge (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload," "Dry weight," "Sediment," and "Suspended-sediment discharge")

Benthic organisms are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

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

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

Biomass pigment ratio is an indicator of the total proportion of periphyton that are autotrophic (plants). This also is called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton and periphyton organisms with a blue pigment in addition to a green pigment called chlorophyll. Blue-green algae can cause nuisance water-quality conditions in lakes and slow-flowing rivers; however, they are found commonly in streams throughout the year. The abundance of blue-green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of blue-green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter (μm^3/cm^2). (See also "Phytoplankton"and "Periphyton")

Bottom material (See "Bed material")

Bulk electrical conductivity is the combined electrical conductivity of all material within a doughnut-shaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved-solids content of the pore water, and the lithology and porosity of the rock.

Canadian Geodetic Vertical Datum 1928 is a geodetic datum derived from a general adjustment of Canada's first order level network in 1928.

Cell volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are used frequently in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements or cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere $4/3\ \pi r^3$ cone $1/3\ \pi r^2 h$ cylinder $\pi r^2 h$.

pi (π) is the ratio of the circumference to the diameter of a circle; pi = 3.14159….

From cell volume, total algal biomass expressed as biovolume (μm^3/mL) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes for all species.

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and generally are reported as cells or units per milliliter (mL) or liter (L).

Cfs-day (See "Cubic foot per second-day")

Channel bars, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also "Biochemical oxygen demand (BOD)"]

Clostridium perfringens *(C. perfringens)* is a spore-forming bacterium that is common in the feces of human and other warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and the presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

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.

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure, as used in this report, is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-foot" sometimes is used synonymously with "cubic foot per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [$(ft^3/s)/d$]) 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, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables numerically are equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

Daily mean suspended-sediment concentration is the time-weighted mean concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Sediment" and "Suspended-sediment concentration")

Daily record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to data collection on a daily or near-daily basis.

Data collection platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data usually are downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a hori-

zontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or Universal Transverse Mercator (UTM) coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

Diatoms *(Bacillariophyta)* are unicellular or colonial algae with a siliceous cell wall. The abundance of diatoms in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of diatoms in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also "Phytoplankton" and "Periphyton")

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or **flow**, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, and so forth, within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4917 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i \approx 1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n},$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that contains a drainage system with a common outlet for its surface runoff. (See "Drainage area")

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also "Ash mass," "Biomass," and "Wet mass")

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also "Wet weight")

Embeddedness is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also "Substrate embeddedness class")

Enterococcus bacteria commonly are found in the feces of humans and other warmblooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants. (See also "Bacteria")

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that generally are considered pollution sensitive; the index usually decreases with pollution.

Escherichia coli *(E. coli)* are bacteria present in the intestine and feces of warmblooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an E code will be reported with the value. If the analyte is identified qualitatively as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an E code even though the measured value is greater than the MDL. A value reported with an E code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<). For bacteriological data, concentrations are reported as estimated when results are based on non-ideal colony counts.

Euglenoids (*Euglenophyta*) are a group of algae that usually are free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also "Phytoplankton")

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

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

Fecal streptococcal bacteria are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Filtered pertains to constituents in a water sample passed through a filter of specified pore diameter, most commonly 0.45 micrometer or less for inorganic analytes and 0.7 micrometer for organic analytes.

Filtered, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that has passed through a filter has been extracted. Complete recovery is not achieved by the extraction procedure and thus the analytical determination represents something less than 95 percent of the total constituent concentration in the sample. To achieve comparability of analytical data, equivalent extraction procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results.

Fire algae (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also "Phytoplankton")

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater

than the maximum depth of water. Because the gage datum is not an actual physical object, the datum is usually defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term "stage," although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted, and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Geomorphic channel units, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

Green algae *(Chlorophyta)* are unicellular or colonial algae with chlorophyll pigments similar to those in terrestrial green plants. Some forms of green algae produce mats or floating "moss" in lakes. The abundance of green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also "Phytoplankton" and "Periphyton")

Habitat, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually included. Measurements of habitat typically are made over a wider geographic scale than are measurements of species distribution.

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that commonly is recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. *See NOAA Web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution that uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = sum\frac{(n)(a)}{N},$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See "Datum")

Hydrologic index stations referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

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

Inch (IN., in.), in reference to streamflow, as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were distributed uniformly on it. (See also "Annual runoff")

Instantaneous discharge is the discharge at a particular instant of time. (See also "Discharge")

International Boundary Commission Survey Datum refers to a geodetic datum established at numerous monuments along the United States-Canada boundary by the International Boundary Commission.

Island, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year, on average, and remains stable except during large flood events.

Laboratory reporting level (LRL) generally is equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. The LRL replaces the term 'non-detection value' (NDV).

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Latent heat flux (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-sectional area per unit time. Usually expressed in watts per square meter.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation:

$$I = I_o e^{-\lambda L},$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L}\log_e \frac{I}{I_o}.$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-term method detection level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike-sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA Web site:*
http://www.co-ops.nos.noaa.gov/tideglos.html

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that usually are arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also "Daily mean suspended-sediment concentration" and "Suspended-sediment concentration")

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

Mean high or **low tide** is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also "Datum")

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Megahertz is a unit of frequency. One megahertz equals one million cycles per second.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Method code is a one-character code that identifies the analytical or field method used to determine a value stored in the National Water Information System (NWIS).

Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Method of Cubatures is a method of computing discharge in tidal estuaries based on the conservation of mass equation.

Methylene blue active substances (MBAS) indicate the presence of detergents (anionic surfactants). The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

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

Minimum reporting level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD 29) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It formerly was called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local

mean sea level at any particular place. *See NOAA Web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88* (See "North American Vertical Datum of 1988")

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate")

Nekton are the consumers in the aquatic environment and consist of large, free-swimming organisms that are capable of sustained, directed mobility.

Nonfilterable refers to the portion of the total residue retained by a filter.

North American Datum of 1927 (NAD 27) is the horizontal control datum for the United States that was defined by a location and azimuth on the Clarke spheroid of 1866.

North American Datum of 1983 (NAD 83) is the horizontal control datum for the United States, Canada, Mexico, and Central America that is based on the adjustment of 250,000 points including 600 satellite Doppler stations that constrain the system to a geocentric origin. NAD 83 has been officially adopted as the legal horizontal datum for the United States by the Federal government.

North American Vertical Datum of 1988 (NAVD 88) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian**,** Mexican, and United States first-order terrestrial leveling networks.

Open or **screened interval** is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediment. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or **volatile mass** of a living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass," "Biomass," and "Dry mass")

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

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

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter code is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method uses the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	>0.00024 - 0.004	Sedimentation
Silt	>0.004 - 0.062	Sedimentation
Sand	>0.062 - 2.0	Sedimentation/sieve
Gravel	>2.0 - 64.0	Sieve
Cobble	>64 - 256	Manual measurement
Boulder	>256	Manual measurement

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

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

Percent composition or **percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

Percent shading is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. Although primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed "acidic," and solutions with a pH greater than 7.0 are termed "basic." Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

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

Picocurie (PC, pCi) is one-trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Pool, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photo-synthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. The carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light- and dark-

bottle method and is preferred for use with unenriched water samples. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. The oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Radioisotopes are isotopic forms of elements that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Reach, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

Recoverable is the amount of a given constituent that is in solution after a representative water sample has been extracted or digested. Complete recovery is not achieved by the extraction or digestion and thus the determination represents something less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results. (See also "Bed material")

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or nonexceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day, 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the nonexceedances of the $7Q_{10}$ occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period (See "Recurrence interval")

Riffle, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

Run, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

Salinity is the total quantity of dissolved salts, measured by weight in parts per thousand. Values in this report are calculated from specific conductance and temperature. Seawater has an average salinity of about 35 parts per

thousand (for additional information, refer to: Miller, R.L., Bradford, W.L., and Peters, N.E., 1988, Specific conductance: theoretical considerations and application to analytical quality control: U.S. Geological Survey Water-Supply Paper 2311, 16 p.)

Sea level, as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Sensible heat flux (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

Seven-day, 10-year low flow ($7Q_{10}$) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the $7Q_{10}$ is 10 years; the chance that the annual 7-day minimum flow will be less than the $7Q_{10}$ is 10 percent in any given year. (See also "Annual 7-day minimum" and "Recurrence interval")

Shelves, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Soil heat flux (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

Soil-water content is the water lost from the soil upon drying to constant mass at 105 °C; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific water, to evaluate mixing of different water, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

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

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

Substrate is the physical surface upon which an organism lives.

Substrate embeddedness class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2 mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment:

0	no gravel or larger substrate	3	26-50 percent
1	> 75 percent	4	5-25 percent
2	51-75 percent	5	< 5 percent

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed

in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 foot) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Surrogate is an analyte that behaves similarly to a target analyte, but that is highly unlikely to occur in a sample. A surrogate is added to a sample in known amounts before extraction and is measured with the same laboratory procedures used to measure the target analyte. Its purpose is to monitor method performance for an individual sample.

Suspended is the amount (concentration) of undissolved material in a water-sediment mixture. Most commonly refers to that material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer filter has been extracted or digested. Complete recovery is not achieved by the extraction or digestion procedures and thus the determination represents less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results. (See also "Suspended")

Suspended sediment is sediment carried in suspension by the turbulent components of the fluid or by the Brownian movement (a law of physics). (See also "Sediment")

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also "Sediment" and "Suspended sediment")

Suspended-sediment discharge (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027. (See also "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also "Sediment")

Suspended solids, total residue at 105 °C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa (Species) richness is the number of species (taxa) present in a defined area or sampling unit.

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

Kingdom:	Animal
Phylum:	Arthropeda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	*Hexagenia*
Species:	*Hexagenia limbata*

Thalweg is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

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

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric ton per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warmblooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample. (See also "Bacteria")

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume")

Total recoverable is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Bedload," "Bedload discharge," "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Total sediment load or **total load** is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-sediment load," and "Total load")

Transect, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

Turbidity is an expression of the optical properties of a liquid that causes light rays to be scattered and absorbed rather than transmitted in straight lines through water. Turbidity, which can make water appear cloudy or muddy, is caused by the presence of suspended and dissolved matter, such as clay, silt, finely divided organic matter, plankton and other microscopic organisms, organic acids, and dyes (ASTM International, 2003, D1889–00 Standard test method for turbidity of water, *in* ASTM International, Annual Book of ASTM Standards, Water and Environmental Technology, v. 11.01: West Conshohocken, Pennsylvania, 6 p.). The color of water, whether resulting from dissolved compounds or suspended particles, can affect a turbidity measurement. To ensure that USGS turbidity data can be understood and interpreted properly within the context of the instrument used and site conditions encountered, data from each instrument type are stored and reported in the National Water Information System (NWIS) using parameter codes and measurement reporting units that are specific to the instrument type, with specific instruments designated by the method code. The respective measurement units, many of which also are in use internationally, fall into two categories: (1) the designations NTU, NTRU, BU, AU, and NTMU signify the use of a broad spectrum incident light in the wavelength range of 400-680 nanometers (nm), but having different light detection configurations; (2) The designations FNU, FNRU, FBU, FAU, and FNMU generally signify an incident light in the range between 780-900 nm, also with varying light detection configurations. These reporting units are equivalent when measuring a calibration solution (for example, formazin or polymer beads), but their respective instruments may not produce equivalent results for environmental samples. Specific reporting units are as follows:

NTU (Nephelometric Turbidity Units): white or broadband [400-680 nm] light source, 90 degree detection angle, one detector.

NTRU (Nephelometric Turbidity Ratio Units): white or broadband [400-680 nm] light source, 90 degree detection angle, multiple detectors with ratio compensation.

BU (Backscatter Units): white or broadband [400-680 nm] light source, 30 ± 15 degree detection angle (backscatter).

AU (Attenuation Units): white or broadband [400-680 nm] light source, 180 degree detection angle (attenuation).

NTMU (Nephelometric Turbidity Multibeam Units): white or broadband [400-680 nm] light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam.

FNU (Formazin Nephelometric Units): near infrared [780-900 nm] or monochrome light source, 90 degree detection angle, one detector.

FNRU (Formazin Nephelometric Ratio Units): near infrared [780-900 nm] or monochrome light source, 90 degree detection angle, multiple detectors, ratio compensation.

FBU (Formazin Backscatter Units): near infrared [780-900 nm] or monochrome light source, 30±15 degree detection angle.

FAU (Formazin Attenuation Units): near infrared [780-900 nm] light source, 180 degree detection angle.

FNMU (Formazin Nephelometric Multibeam Units): near infrared [780-900 nm] or monochrome light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam.

For more information please see http://water.usgs.gov/owq/FieldManual/Chapter6/6.7_contents.html.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of path length of UV light through a sample.

Unconfined aquifer is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See "Water-table aquifer")

Unfiltered pertains to the constituents in an unfiltered, representative water-suspended sediment sample.

Unfiltered, recoverable is the amount of a given constituent in a representative water-suspended sediment sample that has been extracted or digested. Complete recovery is not

achieved by the extraction or digestion treatment and thus the determination represents less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results.

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and, subsequently, analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They often are components of fuels, solvents, hydraulic fluids, paint thinners, and dry-cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human-health concern because many are toxic and are known or suspected human carcinogens.

Water table is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which the water table is found.

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2002, is called the "2002 water year."

Watershed (See "Drainage basin")

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

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

Wet mass is the mass of living matter plus contained water. (See also "Biomass" and "Dry mass")

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also "Dry weight")

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

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and often are large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also "Plankton")

SURFACE-WATER DATA

BY MAJOR RIVER BASIN

06444000 WHITE RIVER AT CRAWFORD, NE

LOCATION—Lat 42°41'33", long 103°25'03", in w 1/2 sec. 3, T.31 N., R.52 W., Dawes County, Hydrologic Unit 10140201, on right bank 15 ft downstream from bridge in city park at Crawford.

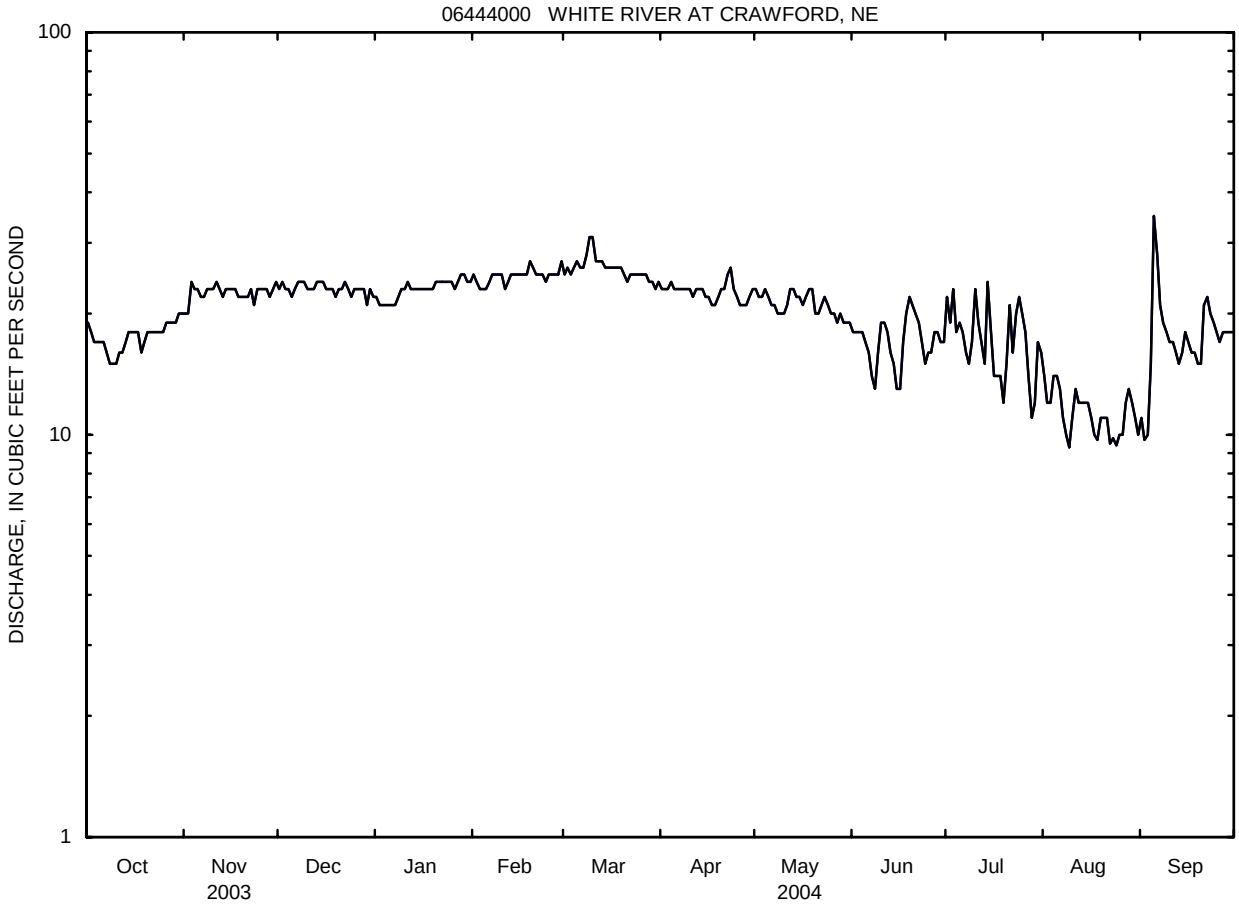
DRAINAGE AREA—313 mi^2.

PERIOD OF RECORD.—February 1931 to September 1943, October 1947 to September 1991, October 2003 to September 2004.

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

GAGE—Water-stage recorder. Datum of gage 3,659.85 ft above National Geodetic Vertical Datum of 1929. Feb. 25, 1931, to Oct. 2, 1933, non-recording gage at old highway bridge 0.5 mi upstream at different datum, and Oct. 3, 1933, to Sept. 30, 1943, 1 mi upstream at different datum. Data collection platform at station.

REMARKS—Records supplied by Nebraska Department of Natural Resources.



06444000 WHITE RIVER AT CRAWFORD, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	20	23	e22	25	25	23	23	18	22	14	11
2	18	20	24	e21	24	26	23	22	18	19	12	9.7
3	17	24	23	e21	23	25	23	22	18	23	12	10
4	17	23	23	21	23	26	24	23	18	18	14	15
5	17	23	22	21	23	27	23	22	17	19	14	35
6	17	22	23	21	24	26	23	21	16	18	13	28
7	16	22	24	21	e25	26	23	21	14	16	11	21
8	15	23	e24	e22	e25	28	23	20	13	15	10	19
9	15	23	24	23	e25	31	23	20	16	17	9.3	18
10	15	23	23	23	e25	31	23	20	19	23	11	17
11	16	24	23	24	e23	27	22	21	19	19	13	17
12	16	23	23	23	e24	27	23	23	18	17	12	16
13	17	22	24	23	e25	27	23	23	16	15	12	15
14	18	23	24	23	e25	26	23	22	15	24	12	16
15	18	23	24	23	e25	26	22	22	13	18	12	18
16	18	23	23	23	25	26	22	21	13	14	11	17
17	18	23	23	23	25	26	21	22	17	14	10	16
18	16	22	23	23	25	26	21	23	20	14	9.7	16
19	17	22	22	23	27	26	22	23	22	12	11	15
20	18	22	23	24	26	25	23	20	21	15	11	15
21	18	22	23	24	25	24	23	20	20	21	11	21
22	18	23	24	e24	25	25	25	21	19	16	9.5	22
23	18	21	23	e24	25	25	26	22	17	20	9.8	20
24	18	23	22	e24	24	25	23	21	15	22	9.4	19
25	18	23	23	e24	25	25	22	20	16	20	10	18
26	19	23	23	23	25	25	21	20	16	18	10	17
27	19	23	23	e24	25	25	21	19	18	14	12	18
28	19	22	23	e25	25	24	21	20	18	11	13	18
29	19	23	21	e25	27	24	22	19	17	12	12	18
30	20	24	23	e24	---	23	23	19	17	17	11	18
31	20	---	e22	e24	---	24	---	19	---	16	10	---
TOTAL	544	677	715	713	718	802	680	654	514	539	351.7	533.7
MEAN	17.5	22.6	23.1	23.0	24.8	25.9	22.7	21.1	17.1	17.4	11.3	17.8
MAX	20	24	24	25	27	31	26	23	22	24	14	35
MIN	15	20	21	21	23	23	21	19	13	11	9.3	9.7
AC-FT	1080	1340	1420	1410	1420	1590	1350	1300	1020	1070	698	1060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2004, BY WATER YEAR (WY)

MEAN	16.9	19.4	20.2	21.2	23.4	26.5	25.0	26.9	22.3	15.8	12.8	13.8
MAX	24.3	26.9	27.0	28.1	33.6	60.2	46.8	122	55.0	40.9	33.4	37.2
(WY)	1987	1943	1934	1974	1972	1943	1943	1991	1935	1991	1933	1936
MIN	13.0	15.3	15.6	14.6	17.8	18.0	18.9	17.2	13.5	8.12	6.31	8.23
(WY)	1961	1991	1967	1950	1967	1991	1991	1934	1940	1989	1961	1960

SUMMARY STATISTICS	FOR 2004 WATER YEAR		WATER YEARS 1932 - 2004	
ANNUAL TOTAL	7441.4			
ANNUAL MEAN	20.3		20.3	
HIGHEST ANNUAL MEAN			30.6	1991
LOWEST ANNUAL MEAN			16.5	1954
HIGHEST DAILY MEAN	35	Sep 5	1080	May 11 1991
LOWEST DAILY MEAN	9.3	Aug 9	2.7	Aug 13 1960
ANNUAL SEVEN-DAY MINIMUM	10	Aug 20	4.1	Aug 11 1960
MAXIMUM PEAK FLOW	48	Sep 5	*13300	May 10 1991
MAXIMUM PEAK STAGE	2.92	Sep 5	**16.32	May 10 1991
ANNUAL RUNOFF (AC-FT)	14760		14730	
10 PERCENT EXCEEDS	25		27	
50 PERCENT EXCEEDS	22		19	
90 PERCENT EXCEEDS	13		11	

e Estimated
* From rating curve extended above 1200 ft^3/s on basis of slope-area and road-overflow measurements
** From floodmark

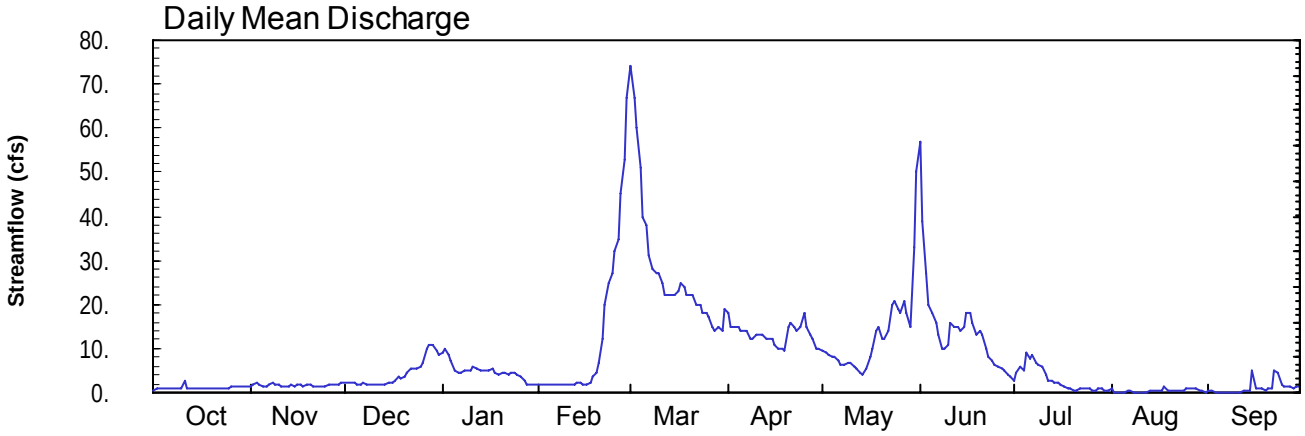
2004 Water Year

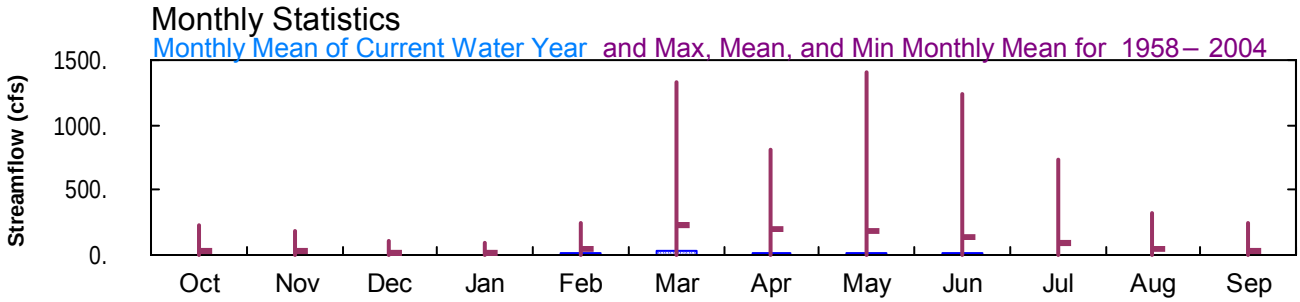
PONCA CREEK BASIN

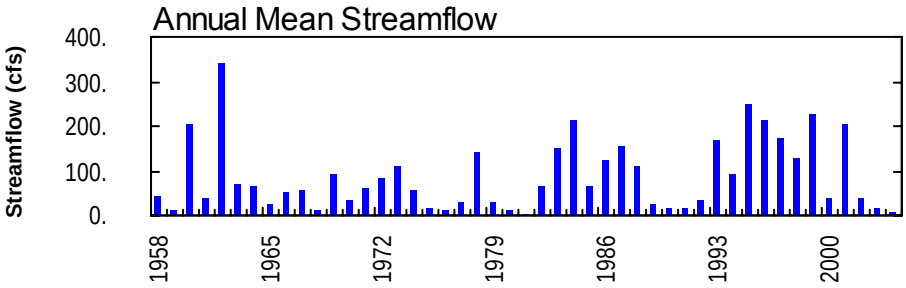
06453600 PONCA CREEK AT VERDEL, NEBR.

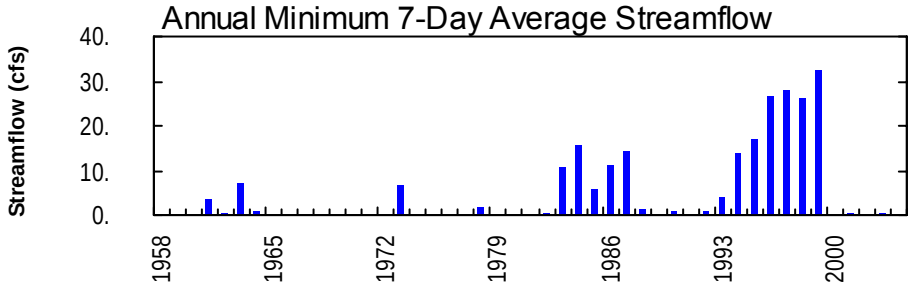
Latitude: 42° 48 ' 39" Longitude: 098° 10 ' 33" Hydrologic Unit Code: 10150001

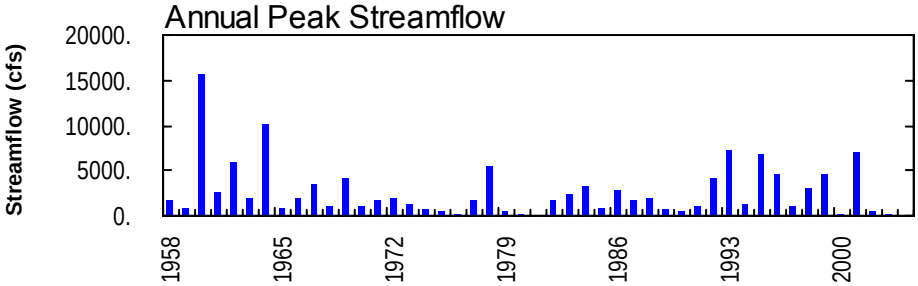
Knox County Datum: 1232.90 feet Drainage Area: 812. mi^2











06453600 PONCA CREEK AT VERDEL, NE

LOCATION—Lat 42º48'38", long 98°10'32", in NE 1/4 NE 1/4 sec.30, T.33 N., R.7 W., Knox County, Hydrologic Unit 10150001, near right bank at right downstream end of bridge on State Highway 12, 0.6 mi east of Verdel and 3.8 mi upstream from mouth.

DRAINAGE AREA—812 mi^2.

PERIOD OF RECORD—October 1957 to current year.

REVISED RECORDS—WSP 2117: Drainage area. WDR NE-96-1 (M).

GAGE—Water-stage recorder and non-recording gage read once daily. Datum of gage 1,232.9 ft above sea level (Nebraska Department of Roads reference marks). See WSP 1917 for history of changes prior to Nov. 15, 1962. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, which are poor. Minor diversions for irrigation above station.

06453600 PONCA CREEK AT VERDEL, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.65	1.5	e2.1	e9.2	e1.9	74	18	9.7	57	2.8	0.98	0.36
2	0.75	1.6	2.1	e10	e1.9	67	15	9.2	39	4.5	0.00	0.25
3	0.76	2.3	2.1	e8.8	e1.8	60	15	8.7	27	5.7	0.00	0.00
4	0.81	1.7	2.1	e7.2	e1.9	51	15	8.3	20	4.8	0.00	0.00
5	0.78	1.5	e2.0	e5.0	e2.0	40	14	8.2	18	9.0	0.00	0.00
6	0.80	1.5	e1.9	e4.3	e2.0	38	14	7.3	16	7.6	0.36	0.00
7	0.82	1.9	e2.1	e4.5	e1.8	31	14	6.4	13	8.8	0.36	0.00
8	0.90	2.1	e2.0	e4.8	e1.9	28	12	6.3	9.9	6.8	0.00	0.00
9	0.98	1.6	e1.7	e4.8	e2.0	27	12	6.7	10	6.2	0.00	0.00
10	0.97	1.7	e1.6	e5.0	e2.0	27	13	6.6	11	5.8	0.00	0.15
11	2.8	1.5	e1.6	e5.8	e2.0	25	13	5.7	16	3.9	0.00	0.18
12	1.0	1.2	e1.7	e5.4	e1.9	22	13	5.2	15	2.9	0.00	0.23
13	1.1	1.4	e1.9	e4.9	e2.1	22	12	4.6	15	2.6	0.25	0.25
14	1.0	1.6	e2.0	e5.0	e2.1	22	12	4.2	14	2.3	0.41	0.62
15	0.98	1.5	e2.3	e5.0	e1.8	22	12	5.5	15	2.3	0.50	4.8
16	0.97	1.6	e2.4	e5.0	e2.0	23	11	8.1	18	1.8	0.43	0.76
17	0.99	1.6	e2.8	e5.2	e2.2	25	10	9.8	18	1.3	0.55	0.72
18	1.0	1.5	e3.5	e4.5	e3.5	24	10	14	16	1.1	1.2	0.75
19	1.1	1.7	e3.3	e4.0	e4.5	22	9.4	15	13	0.69	0.50	0.63
20	1.0	1.6	e3.8	e4.3	e7.0	22	15	12	14	0.65	0.51	0.74
21	1.0	1.4	e4.7	e4.4	e12	22	16	12	13	0.47	0.50	0.90
22	1.1	1.5	e5.6	e4.1	e20	20	15	14	10	0.95	0.50	5.1
23	1.1	e1.4	e5.4	e4.6	e25	20	14	20	8.2	0.97	0.52	4.7
24	1.1	e1.2	e5.4	e4.3	e27	18	15	21	7.2	0.83	0.54	1.8
25	1.1	e1.5	e6.0	e3.9	e32	18	18	19	6.3	0.76	0.86	1.4
26	1.2	e1.6	e7.0	e3.4	e35	17	15	18	5.8	0.45	0.69	1.2
27	1.4	e1.8	e10	e2.6	e45	15	13	21	5.5	0.67	0.69	1.2
28	1.4	e1.7	e11	e2.0	53	14	12	18	5.0	0.80	0.74	1.1
29	1.5	e1.9	e11	e1.6	67	15	10	15	4.2	0.71	0.62	1.2
30	1.5	e2.2	e9.6	e1.7	---	14	9.8	33	3.5	0.61	0.52	1.2
31	1.5	---	e8.4	e1.9	---	19	---	50	---	0.37	0.14	---
TOTAL	34.06	48.8	129.1	147.2	364.3	864	397.2	402.5	443.6	89.13	12.37	30.24
MEAN	1.10	1.63	4.16	4.75	12.6	27.9	13.2	13.0	14.8	2.88	0.40	1.01
MAX	2.8	2.3	11	10	67	74	18	50	57	9.0	1.2	5.1
MIN	0.65	1.2	1.6	1.6	1.8	14	9.4	4.2	3.5	0.37	0.00	0.00
AC-FT	68	97	256	292	723	1710	788	798	880	177	25	60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2004, BY WATER YEAR (WY)

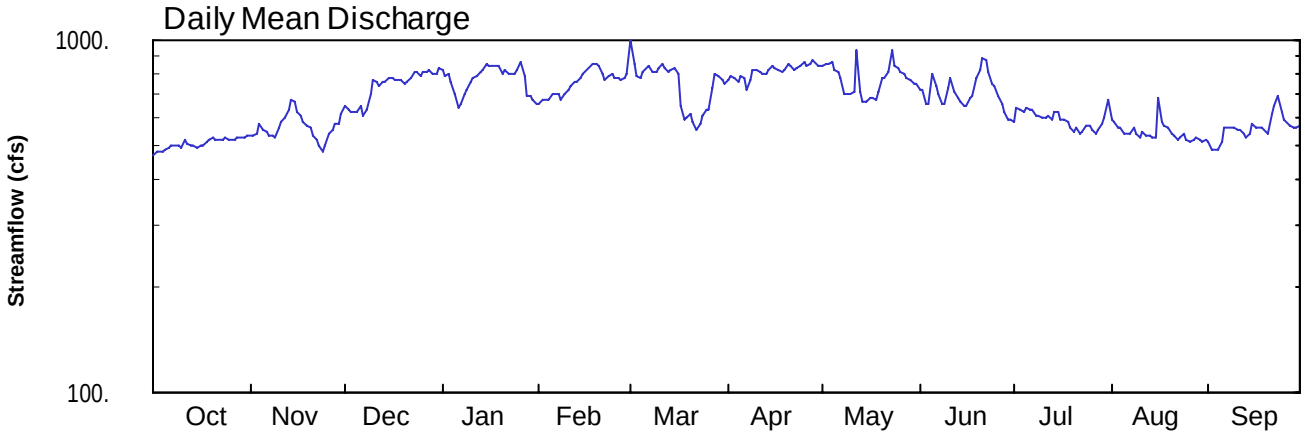
MEAN	26.2	30.0	21.4	18.3	52.7	228	205	184	142	89.9	39.0	29.4
MAX	229	181	105	94.0	239	1333	818	1405	1237	742	327	251
(WY)	1996	1999	1997	1997	1996	1960	1984	1995	1962	1993	1962	1996
MIN	0.00	0.00	0.00	0.00	0.00	6.53	4.77	4.02	5.64	0.01	0.00	0.00
(WY)	1959	1977	1971	1959	1969	1965	1981	1981	1976	1966	1968	1958

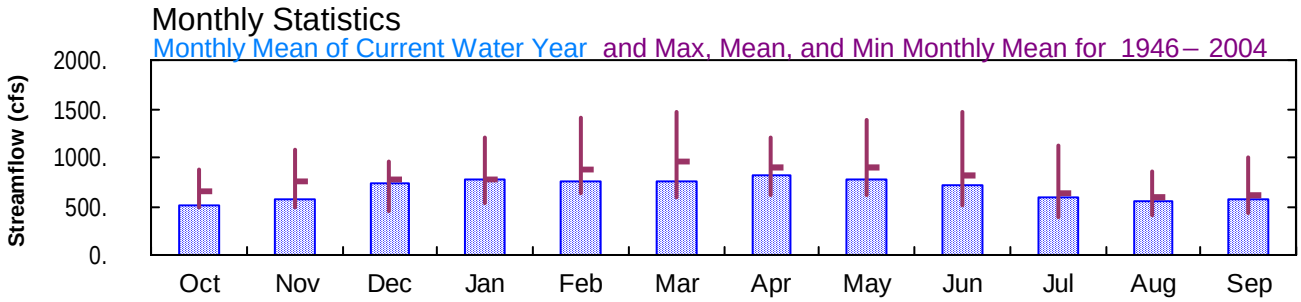
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1958 - 2004	
ANNUAL TOTAL	5865.88		2962.50			
ANNUAL MEAN	16.1		8.09		89.0	
HIGHEST ANNUAL MEAN					343	1962
LOWEST ANNUAL MEAN					3.75	1981
HIGHEST DAILY MEAN	134	Jul 7	74	Mar 1	14800	Mar 28 1960
LOWEST DAILY MEAN	0.29	Aug 14	0.00	Aug 2	*0.00	Oct 1 1957
ANNUAL SEVEN-DAY MINIMUM	0.50	Sep 22	0.00	Sep 3	0.00	Oct 1 1957
MAXIMUM PEAK FLOW			**79	Mar 1	***15700	Mar 27 1960
MAXIMUM PEAK STAGE			****5.69	Feb 26	*****17.30	Mar 6 1993
ANNUAL RUNOFF (AC-FT)	11630		5880		64470	
10 PERCENT EXCEEDS	43		20		193	
50 PERCENT EXCEEDS	8.4		3.5		22	
90 PERCENT EXCEEDS	0.75		0.52		0.30	

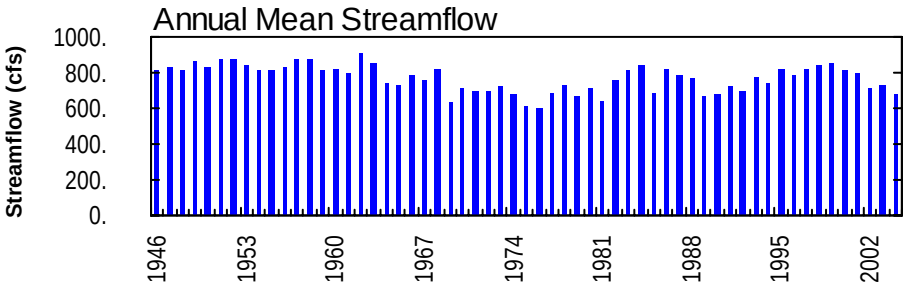
e	Estimated
*	No flow many days, many years
**	Stage 5.44 ft
***	Stage 15.10 ft, site and datum then in use
****	Backwater from ice
*****	From floodmark, ice jam

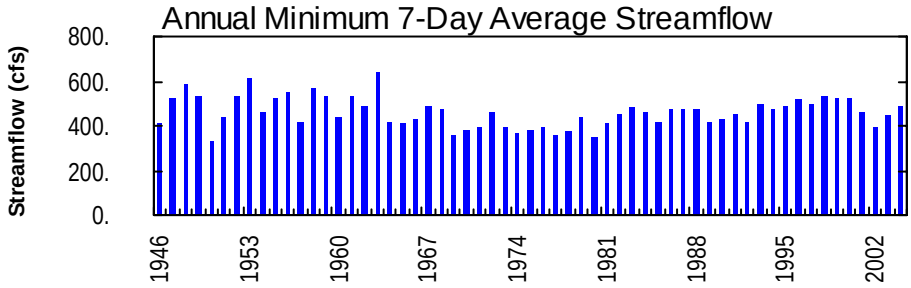
06461500 NIOBRARA RIVER NEAR SPARKS, NEBR.

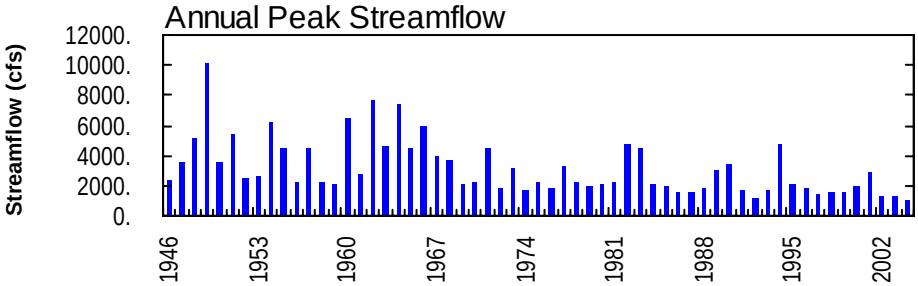
Latitude: 42°54'07" Longitude: 100°21'44" Hydrologic Unit Code: 10150004
Cherry County Datum: 2287.57 feet Drainage Area: 7150. mi²











06461500 NIOBRARA RIVER NEAR SPARKS, NE

LOCATION—Lat 42°54'10", long 100°21'40", in SE 1/4 sec.22, T.34 N., R.26 W., Cherry County, Hydrologic Unit 10150004, on left bank 18 ft downstream from highway bridge, 2.2 mi downstream from Big Beaver Creek, 5.5 mi downstream from Minnechaduza Creek, 6.5 mi southwest of Sparks, and at mile 142.5.

DRAINAGE AREA —7,150 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS—WSP 1209: 1947(M), 1948-50(P). WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder and peak-stage indicator gage. Datum of gage is 2,287.57 ft above sea level. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by irrigation and power developments, storage in Box Butte Reservoir (station 06455000), and since May 1964 by storage in Merritt Reservoir (station 06459300). Additional water-quality data available under Miscellaneous Surface-Water Quality Data.

06461500 NIOBRARA RIVER NEAR SPARKS, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	473	535	647	826	e660	999	768	845	727	590	593	515
2	482	536	637	796	e680	852	787	855	720	645	583	491
3	484	545	627	e800	e680	795	778	859	659	634	563	491
4	484	580	623	e760	e680	783	759	869	656	627	561	486
5	487	554	629	e700	e700	808	787	825	804	643	546	517
6	498	551	649	e640	e700	838	776	810	738	634	544	563
7	502	535	609	e660	e700	843	727	778	703	636	545	561
8	504	536	635	e700	e680	811	773	704	662	608	562	564
9	500	528	701	e720	e700	815	822	704	661	608	543	562
10	497	564	770	e760	e720	837	819	703	736	602	532	554
11	521	588	e760	e780	e740	855	808	709	776	606	551	555
12	509	605	e740	788	e760	831	801	934	712	610	539	542
13	501	634	e760	817	e760	810	803	709	686	595	536	529
14	505	678	e760	828	e780	825	823	664	667	623	529	543
15	498	667	e780	850	e800	832	839	672	653	623	531	580
16	504	625	784	848	e820	806	835	683	653	597	690	567
17	505	608	771	846	e840	654	822	689	683	593	584	566
18	513	590	772	843	e860	594	812	674	691	586	574	562
19	522	574	775	842	e860	602	821	714	784	563	566	550
20	526	567	756	802	e840	614	852	780	826	547	545	543
21	520	533	759	820	e800	589	840	778	886	561	535	617
22	520	524	784	800	773	558	820	816	873	540	524	654
23	524	502	817	800	793	576	831	942	816	550	532	696
24	526	e480	809	799	802	613	842	846	756	569	545	628
25	520	e500	791	820	785	637	864	836	738	568	522	592
26	522	e540	812	864	780	633	846	811	697	554	517	578
27	525	e560	817	790	772	731	860	799	662	544	520	570
28	528	e580	818	699	776	798	882	784	625	559	528	567
29	532	e580	802	697	802	791	852	772	595	578	520	567
30	529	e620	798	e680	---	769	843	755	591	606	516	573
31	538	---	835	e660	---	753	---	750	---	673	520	---
TOTAL	15799	17019	23027	24035	22043	23252	24492	24069	21436	18472	16996	16883
MEAN	510	567	743	775	760	750	816	776	715	596	548	563
MAX	538	678	835	864	860	999	882	942	886	673	690	696
MIN	473	480	609	640	660	558	727	664	591	540	516	486
AC-FT	31340	33760	45670	47670	43720	46120	48580	47740	42520	36640	33710	33490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY)

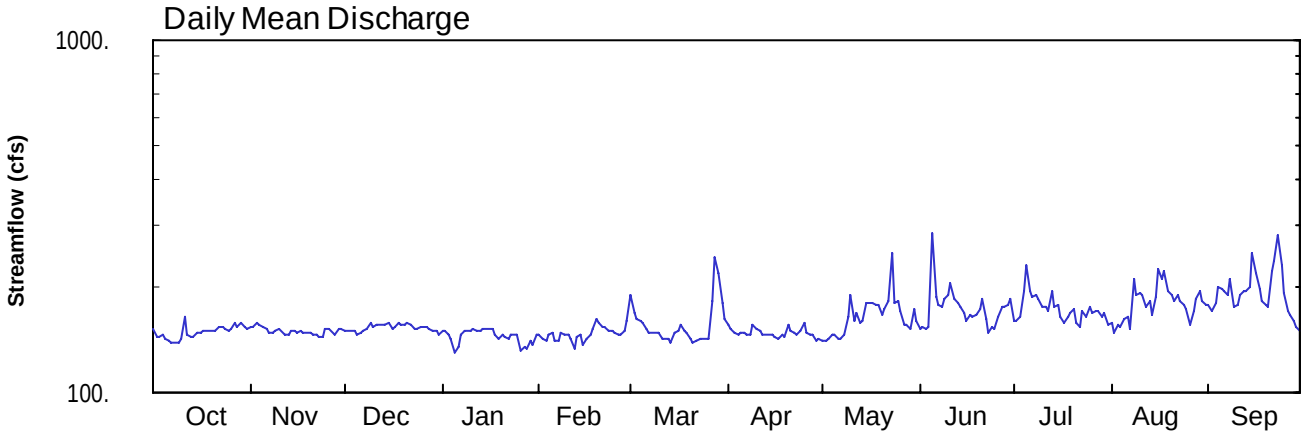
MEAN	663	751	765	777	884	967	907	898	815	630	588	605
MAX	879	1092	950	1208	1403	1464	1214	1385	1470	1122	858	993
(WY)	1966	1999	1986	1984	1984	1949	1958	1995	1967	1962	1951	1951
MIN	481	484	448	525	631	584	615	612	506	383	417	426
(WY)	1977	1977	1969	1969	1975	1976	1967	1969	1985	1974	1980	1980

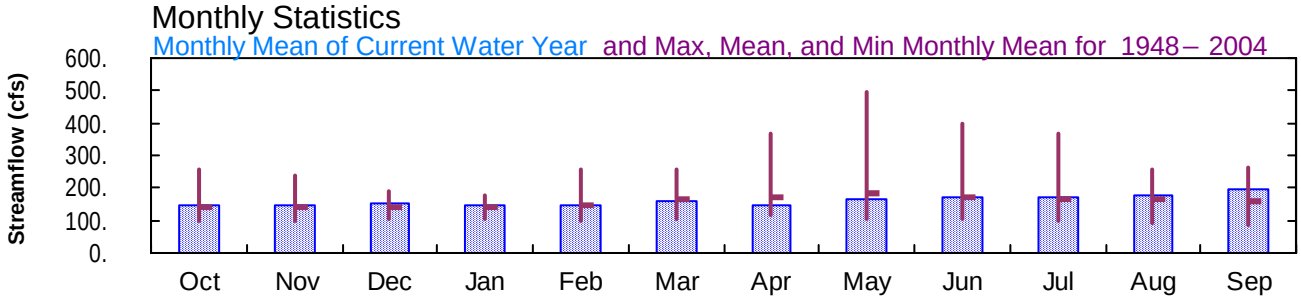
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1946 - 2004	
ANNUAL TOTAL	261205		247523			
ANNUAL MEAN	716		676		770	
HIGHEST ANNUAL MEAN					911	1962
LOWEST ANNUAL MEAN					598	1976
HIGHEST DAILY MEAN	1150	Jun 25	999	Mar 1	5000	Feb 5 1984
LOWEST DAILY MEAN	422	Aug 29	473	Oct 1	100	Jan 10 1957
ANNUAL SEVEN-DAY MINIMUM	447	Aug 26	487	Oct 1	327	Dec 8 1949
MAXIMUM PEAK FLOW			*1060	Mar 1	**10200	Mar 5 1949
MAXIMUM PEAK STAGE			3.17	May 12	***10.06	Feb 7 1973
ANNUAL RUNOFF (AC-FT)	518100		491000		557900	
10 PERCENT EXCEEDS	951		835		1030	
50 PERCENT EXCEEDS	756		670		761	
90 PERCENT EXCEEDS	477		522		506	

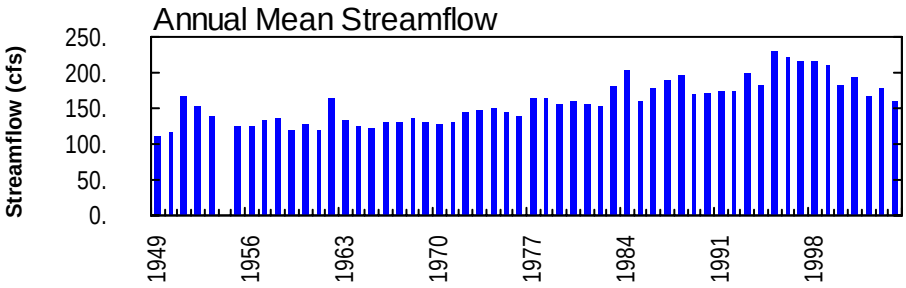
e Estimated
* Stage 3.10 ft
** From rating curve extended above 3800 ft^3/s, stage 6.73 ft
*** Backwater from ice

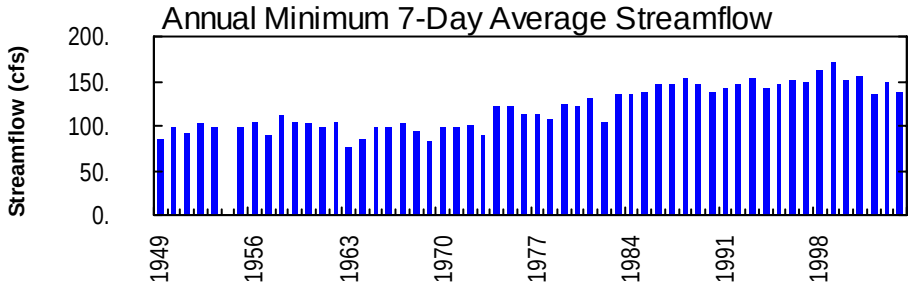
06463500 LONG PINE CREEK NEAR RIVERVIEW, NEBR.

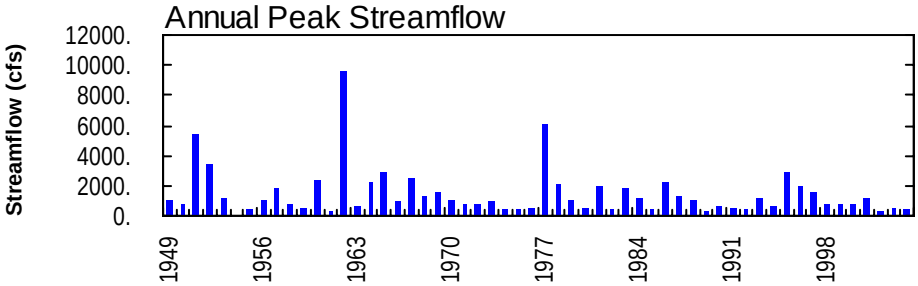
Latitude: 42°41'22" Longitude: 099°40'44" Hydrologic Unit Code: 10150004
Brown County Datum: 1983.34 feet Drainage Area: 458. mi²











06463500 LONG PINE CREEK NEAR RIVERVIEW, NE

LOCATION—Lat 42°41'21", long 99°40'43", in SE 1/4 NE 1/4 sec.5, T.31 N., R.20 W., Brown County, Hydrologic Unit 10150004, on left bank 15 ft downstream from county road bridge, 1 mi downstream from Bone Creek, 5.5 mi southwest of Riverview, and at mile 6.2.

DRAINAGE AREA—458 mi2.

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

REVISED RECORDS—WSP 1729: 1952(M). WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,983.34 ft above sea level, (levels by Bureau of Reclamation). Prior to Dec. 7, 1962, at site 100 ft upstream at present datum. Data collection platform at station.

REMARKS—Records good. Flow includes return water from Ainsworth Irrigation District since 1965.

STATION NUMBER 06463500 LONG PINE CREEK NEAR RIVERVIEW, NE

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	153	150	149	145	189	155	141	152	160	157	177
2	144	154	150	150	142	169	151	140	154	160	148	171
3	144	157	150	145	141	161	148	142	152	165	156	180
4	145	156	150	142	146	159	146	145	154	193	153	199
5	142	153	145	130	148	157	148	145	283	230	162	196
6	140	151	147	e135	140	151	147	143	186	195	163	194
7	138	147	150	e145	140	148	146	142	177	186	152	188
8	139	147	152	150	147	148	145	145	175	189	209	210
9	139	149	157	149	146	147	155	165	184	184	189	174
10	143	152	153	150	145	148	152	189	188	174	192	178
11	164	150	155	151	142	143	149	160	204	175	188	190
12	145	146	155	150	133	142	145	168	184	171	176	194
13	144	145	155	149	144	143	146	157	179	193	182	195
14	144	150	156	151	146	139	146	160	174	175	166	198
15	147	149	158	151	137	148	146	179	168	177	187	248
16	148	148	152	152	143	149	144	179	159	165	225	217
17	149	150	154	151	146	156	143	179	166	157	209	196
18	150	148	157	146	152	150	146	178	164	165	220	182
19	149	147	155	143	161	148	144	178	166	169	193	177
20	149	147	155	145	158	142	156	167	172	172	189	175
21	150	145	158	144	154	139	150	173	184	157	181	220
22	153	145	155	142	154	141	147	182	161	154	189	235
23	153	144	151	145	150	142	146	248	148	171	183	279
24	152	144	152	145	149	143	149	179	154	165	178	230
25	150	151	153	146	147	143	157	181	151	174	172	191
26	151	151	153	131	146	143	148	170	163	169	156	171
27	157	148	154	135	146	183	146	156	176	171	171	167
28	154	146	151	133	150	242	146	155	175	171	185	160
29	157	151	149	140	159	217	140	151	178	163	193	153
30	153	152	150	137	---	179	142	172	185	169	181	149
31	152	---	146	145	---	162	---	159	---	156	177	---
TOTAL	4596	4476	4728	4477	4257	4871	4429	5128	5216	5375	5582	5794
MEAN	148	149	153	144	147	157	148	165	174	173	180	193
MAX	164	157	158	152	161	242	157	248	283	230	225	279
MIN	138	144	145	130	133	139	140	140	148	154	148	149
AC-FT	9120	8880	9380	8880	8440	9660	8780	10170	10350	10660	11070	11490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2004, BY WATER YEAR (WY)

MEAN	142	143	141	139	148	168	173	185	174	166	163	158
MAX	254	238	191	180	256	257	369	495	396	368	256	263
(WY)	1996	1999	1996	1995	1996	1987	1995	1995	1951	1962	1998	1986
MIN	100	101	102	103	96.5	106	114	103	105	99.0	92.9	88.1
(WY)	1949	1950	1969	1957	1951	1951	1950	1948	1948	1949	1948	1948

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1948 - 2004	
ANNUAL TOTAL	63836		58929			
ANNUAL MEAN	175		161		159	
HIGHEST ANNUAL MEAN					231	1995
LOWEST ANNUAL MEAN					111	1949
HIGHEST DAILY MEAN	513	May 10	283	Jun 5	3050	Jul 1 1962
LOWEST DAILY MEAN	138	Oct 7	130	Jan 5	44	Jan 10 1963
ANNUAL SEVEN-DAY MINIMUM	141	Oct 4	138	Jan 26	76	Jan 10 1963
MAXIMUM PEAK FLOW			388	Jun 5	9650	Jul 1 1962
MAXIMUM PEAK STAGE			1.54	Jun 5	*15.68	Jul 1 1962
ANNUAL RUNOFF (AC-FT)	126600		116900		115200	
10 PERCENT EXCEEDS	207		189		203	
50 PERCENT EXCEEDS	163		153		150	
90 PERCENT EXCEEDS	149		143		112	

e Estimated
* Backwater from fallen bridge

06464500 KEYA PAHA RIVER AT WEWELA, SD

LOCATION—Lat 43°01'44", long 99°46'49", in NW¼ SW¼ SE¼ sec.24, T.95 N., R.76 W., Tripp County, Hydrologic Unit 10150006, on right bank at downstream side of bridge on U.S. Highway 183, 1.0 mi north of Wewela, 4.5 mi upstream from Holt Creek, and 11.5 mi downstream from Lost Creek.

DRAINAGE AREA—1,070 mi^2, 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 and crest-stage gage. Datum of gage is 2,049.78 ft above NGVD of 1929. Prior to June 21, 1957, nonrecording gage at site 13 ft upstream at same datum. Prior to Aug. 23, 1984, recording gage on left bank 13 ft downstream from bridge at same datum.

REMARKS—Records good except those for estimated daily discharges, which are poor. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

COOPERATION—Records provided by U.S. Geological Survey, South Dakota Water Science Center.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	30	e33	e31	e17	143	132	44	71	36	16	13
2	20	30	e34	e32	e17	120	117	42	67	37	16	12
3	20	30	e35	e30	e16	101	102	41	62	39	15	11
4	21	30	e36	e28	e16	91	89	40	58	37	16	10
5	22	28	e34	e26	e16	91	80	40	56	45	15	11
6	21	e25	e33	e24	e15	89	75	36	51	54	14	11
7	20	e22	e34	e23	e15	88	69	34	46	55	13	12
8	20	e24	e36	e22	e15	89	62	34	44	52	23	13
9	20	e35	e34	e22	e15	92	59	33	49	46	28	13
10	20	e42	e33	e23	e15	99	59	32	170	40	26	12
11	24	39	e32	e23	e15	101	59	31	378	35	22	12
12	24	35	e32	e24	e14	101	58	38	218	31	19	12
13	23	32	e31	e24	e15	93	58	71	187	28	19	10
14	22	32	e31	e23	e15	85	57	91	145	27	19	11
15	22	31	e30	e24	e15	84	54	89	114	26	16	14
16	22	31	e30	e24	e16	84	52	90	94	25	16	16
17	25	31	e31	e24	e18	88	48	91	88	24	15	15
18	24	31	e31	e23	e25	94	49	88	78	22	18	15
19	24	31	e32	e22	e35	94	47	80	72	20	17	14
20	23	33	e33	e21	e50	89	51	72	70	20	16	16
21	22	32	e34	e21	e70	81	54	65	68	19	15	28
22	22	29	e34	e21	e100	77	54	66	63	19	14	30
23	22	e28	e33	e22	e150	74	54	79	58	18	13	36
24	22	e25	e32	e23	e180	71	54	89	52	19	21	42
25	22	e28	e32	e22	e175	69	55	106	49	20	17	41
26	23	e29	e32	e21	e170	66	54	121	47	18	14	36
27	26	e30	e33	e20	e160	76	52	110	45	17	14	31
28	27	e30	e34	e19	e155	118	51	95	43	17	15	29
29	27	e31	e33	e19	e150	157	46	83	41	16	15	27
30	27	e32	e32	e18	---	166	45	78	40	16	15	26
31	28	---	e31	e18	---	146	---	76	---	16	14	---
TOTAL	705	916	1,015	717	1,685	3,017	1,896	2,085	2,624	894	526	579
MEAN	22.7	30.5	32.7	23.1	58.1	97.3	63.2	67.3	87.5	28.8	17.0	19.3
MAX	28	42	36	32	180	166	132	121	378	55	28	42
MIN	20	22	30	18	14	66	45	31	40	16	13	10
AC-FT	1,400	1,820	2,010	1,420	3,340	5,980	3,760	4,140	5,200	1,770	1,040	1,150

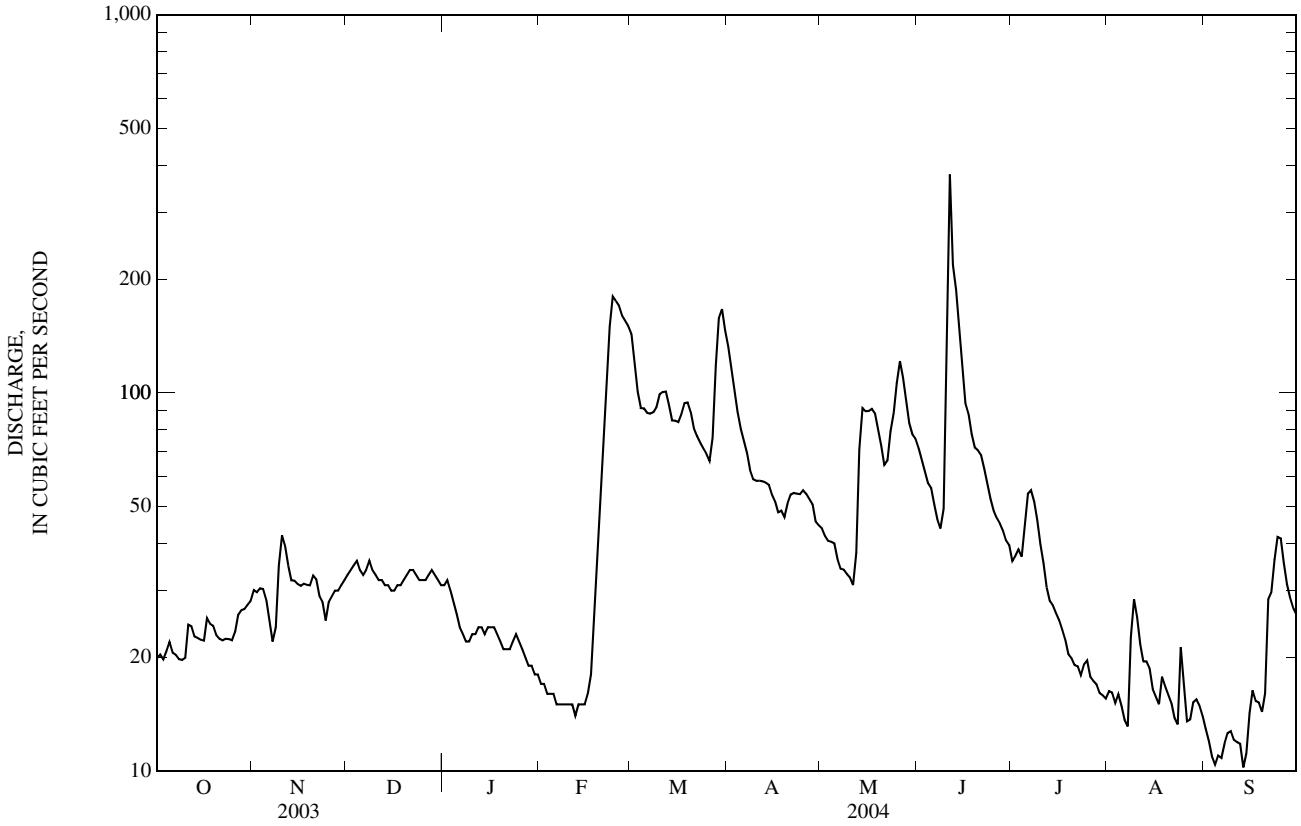
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1940, 1948 - 2004, BY WATER YEAR (WY)

MEAN	40.8	47.2	39.0	33.7	75.8	175	164	146	107	64.6	36.3	31.0
MAX	141	204	120	135	546	598	605	754	512	607	178	89.2
(WY)	(1996)	(1999)	(2002)	(1997)	(1997)	(1960)	(1952)	(1995)	(1962)	(1962)	(1998)	(1999)
MIN	8.49	12.0	8.74	1.61	5.08	33.5	31.3	27.4	12.2	3.55	0.80	3.71
(WY)	(1977)	(1977)	(1956)	(1949)	(1979)	(1975)	(1976)	(1981)	(1976)	(1940)	(1976)	(1976)

06464500 KEYA PAHA RIVER AT WEWELA, SD—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939-1940, 1948-2004	
ANNUAL TOTAL	18,718.5		16,659			
ANNUAL MEAN	51.3		45.5		[a]80.0	
HIGHEST ANNUAL MEAN					188	1997
LOWEST ANNUAL MEAN					19.5	1976
HIGHEST DAILY MEAN	302	May 10	378	Jun 11	4,930	Mar 30, 1952
LOWEST DAILY MEAN	7.8	Sep 9	10	Sep 4	[b]0.00	Jan 10, 1949
ANNUAL SEVEN-DAY MINIMUM	8.4	Sep 8	11	Sep 1	0.00	Jan 10, 1949
MAXIMUM PEAK FLOW			576	Jun 10	[c]5,430	Mar 31, 1952
MAXIMUM PEAK STAGE			3.73	Jun 10	[d]13.50	Mar 25, 1950
ANNUAL RUNOFF (AC-FT)	37,130		33,040		57,980	
10 PERCENT EXCEEDS	102		91		164	
50 PERCENT EXCEEDS	42		31		43	
90 PERCENT EXCEEDS	13		15		16	

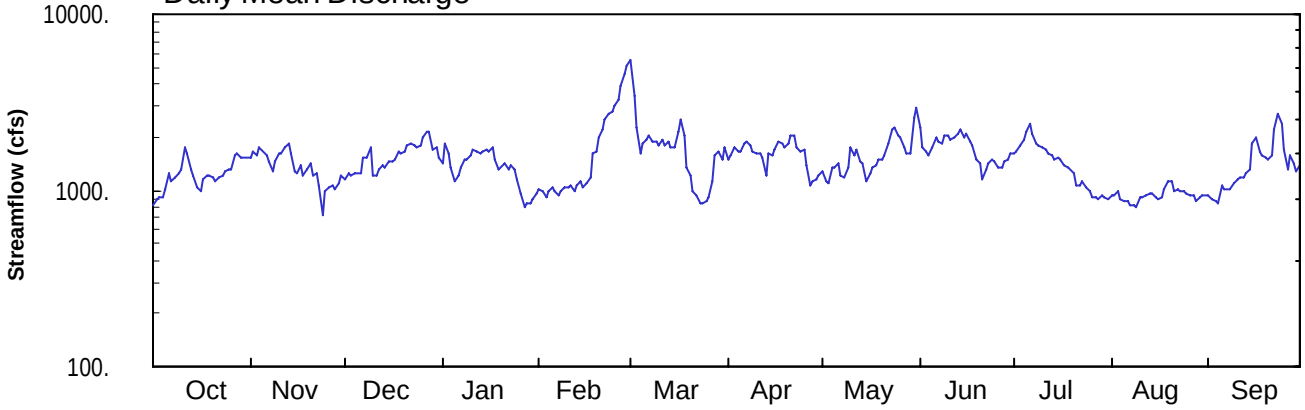
a Median of annual mean discharges, 70 ft^3/s.
b Also Jan. 11 to Feb. 15, 1949, and Aug. 19 to Sept. 14, 1976.
c Gage height, 13.08 ft.
d Backwater from ice.
e Estimated.



06465500 NIOBRARA RIVER NR. VERDEL, NEBR.

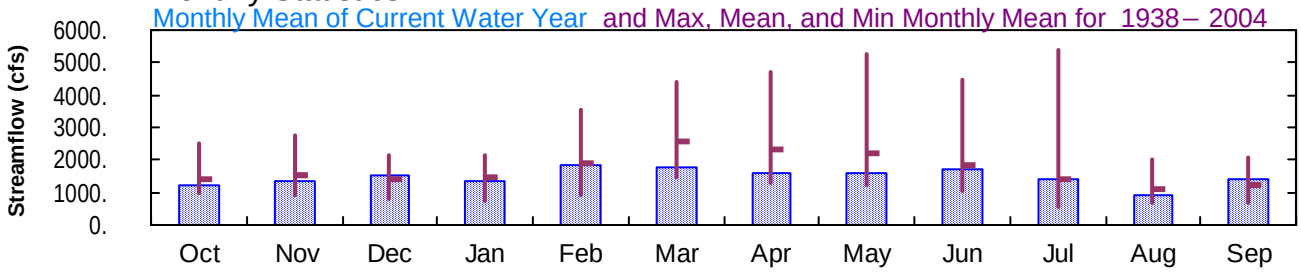
Latitude: 42° 44 ' 22" Longitude: 098° 13 ' 27" Hydrologic Unit Code: 10150007
Knox County Datum: 1312.12 feet Drainage Area: 11580 mi^2

Daily Mean Discharge

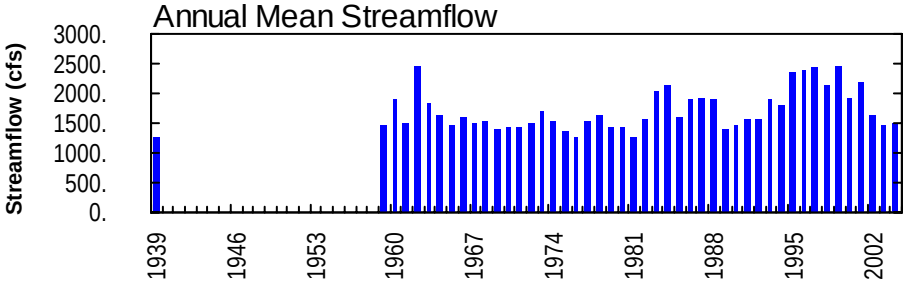


Monthly Statistics

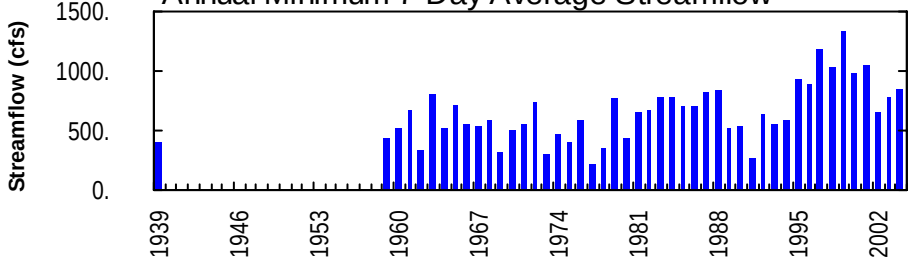
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1938 – 2004



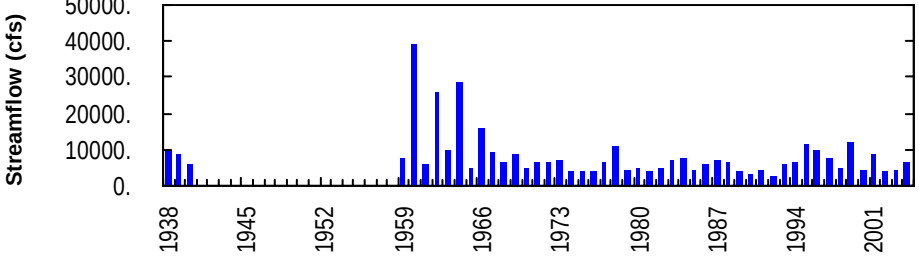
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



06465500 NIOBRARA RIVER NEAR VERDEL, NE

LOCATION—Lat 42°44'23", long 98°13'26", in NW 1/4 NW 1/4 sec.23, T.32 N., R.8 W., Knox County, Hydrologic Unit 10150007, on right bank at downstream side of county road bridge, 6.6 mi south of Verdel, 7.5 mi upstream from Verdigre Creek, and at mile 14.8.

DRAINAGE AREA—11,580 mi^2.

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

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,312.12 ft above sea level. Apr. 25, 1938, to June 16, 1939, non-recording gage at site 2,600 ft downstream; June 17, 1939, to June 13, 1940, non-recording gage 2850 ft downstream; and June 14, 1940 to July 24, 1985, water-stage recorder at site 2600 ft downstream, all at datum 4.00 ft lower. Data collection platform at station.

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

06465500 NIOBRARA RIVER NEAR VERDEL, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	819	1540	e1160	1430	e1020	5520	1500	1280	2290	1630	948	933
2	901	1660	e1240	1820	e980	3400	1580	1110	1770	1650	935	893
3	909	1590	e1200	e1600	e920	2290	1730	1100	1650	1810	990	856
4	922	1770	e1260	e1340	e1000	1600	1650	1350	1560	1950	898	835
5	1020	1680	e1240	1120	e1040	1860	1650	1340	1740	2150	871	1080
6	1240	1590	1240	e1200	e1000	1940	1850	1430	1970	2400	856	1020
7	1130	1450	1530	e1360	e940	2020	1900	1200	1890	2120	826	1010
8	1190	1280	1530	e1500	e980	1910	1790	1190	1850	1850	818	1020
9	1250	1470	1740	e1500	e1040	1870	1650	1360	2070	1780	799	1100
10	1310	1620	1220	e1560	e1040	1780	1620	1770	2040	1770	904	1160
11	1730	1610	1210	e1700	e1080	1940	1630	1580	1920	1690	920	1190
12	1630	1770	e1300	e1640	e1000	1810	1520	1710	2010	1620	948	1190
13	1300	1860	e1400	e1600	e1060	1890	1210	1470	2090	1570	964	1250
14	1220	1620	e1360	e1680	e1120	1760	1630	1420	2200	1510	970	1300
15	1050	1290	e1460	e1720	e1040	1760	1580	1130	1990	1520	922	1820
16	1000	1250	e1460	e1660	e1100	2180	1690	1260	2080	1510	891	1970
17	1140	1400	e1500	e1740	e1180	2500	1890	1350	1880	1400	902	1660
18	1200	1230	e1660	e1500	e1600	2030	1860	1370	1800	1360	1020	1560
19	1220	1320	e1620	e1300	e1680	1360	1740	1480	1510	1330	1110	1520
20	1190	1420	e1680	e1380	e2000	1230	1850	1510	1430	1240	1130	1510
21	1110	1230	e1800	e1420	e2200	1000	2030	1580	1150	1070	997	1560
22	1180	1250	e1840	e1320	e2500	929	2020	1830	1300	1070	1010	2190
23	1230	1070	e1780	e1400	e2700	843	1760	2190	1410	1120	1000	2730
24	1290	714	1730	e1320	e2800	834	1640	2290	1480	1040	987	2360
25	1300	e1000	1800	e1140	e3000	876	1720	2030	1440	980	952	1690
26	1320	e1040	2000	e960	e3300	905	1370	1980	1360	918	946	1310
27	1560	e1080	2170	799	e3900	1110	1080	1760	1360	904	930	1580
28	1600	e1020	2180	e840	e4600	1590	1120	1630	1470	899	878	1430
29	1530	e1100	1710	e840	e5100	1650	1140	1630	1510	938	905	1280
30	1520	e1200	1760	e900	---	1490	1210	2610	1600	907	933	1400
31	1530	---	1530	e960	---	1770	---	2920	---	887	942	---
TOTAL	38541	41124	48310	42249	52920	55647	48610	49860	51820	44593	29102	42407
MEAN	1243	1371	1558	1363	1825	1795	1620	1608	1727	1438	939	1414
MAX	1730	1860	2180	1820	5100	5520	2030	2920	2290	2400	1130	2730
MIN	819	714	1160	799	920	834	1080	1100	1150	887	799	835
AC-FT	76450	81570	95820	83800	105000	110400	96420	98900	102800	88450	57720	84110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

MEAN	1429	1530	1414	1451	1908	2553	2335	2197	1867	1402	1125	1252
MAX	2480	2762	2118	2148	3557	4425	4693	5290	4442	5370	2049	2094
(WY)	1996	1999	1997	1999	1997	1960	1995	1995	1962	1962	1962	1986
MIN	1009	943	787	706	941	1444	1282	1228	1044	551	644	704
(WY)	1977	1977	1969	1940	1939	1981	1939	1969	1976	1974	1971	1939

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL TOTAL	524408		545183			
ANNUAL MEAN	1437		1490		1712	
HIGHEST ANNUAL MEAN					2461	1962
LOWEST ANNUAL MEAN					1269	1976
HIGHEST DAILY MEAN	3730	May 5	5520	Mar 1	25100	Mar 27 1960
LOWEST DAILY MEAN	695	Sep 28	714	Nov 24	104	Nov 30 1960
ANNUAL SEVEN-DAY MINIMUM	774	Sep 25	853	Aug 4	210	Nov 27 1976
MAXIMUM PEAK FLOW			*6810	Mar 1	**39000	Mar 27 1960
MAXIMUM PEAK STAGE			***5.17	Feb 23	***10.62	Mar 12 1966
ANNUAL RUNOFF (AC-FT)	1040000		1081000		1240000	
10 PERCENT EXCEEDS	2050		2020		2700	
50 PERCENT EXCEEDS	1320		1430		1520	
90 PERCENT EXCEEDS	887		930		900	

e Estimated
* Stage 4.38 ft
** Stage 10.10 ft
*** Backwater from ice

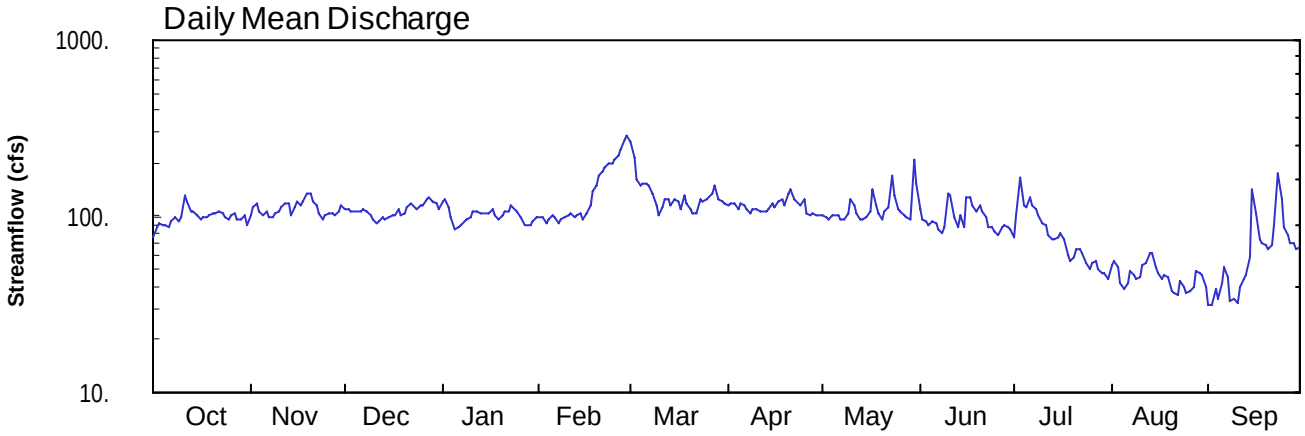
2004 Water Year

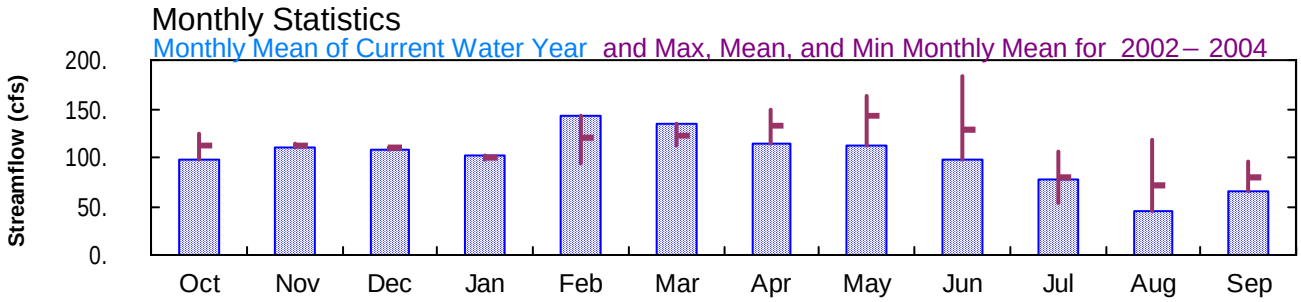
NIOBRARA RIVER BASIN

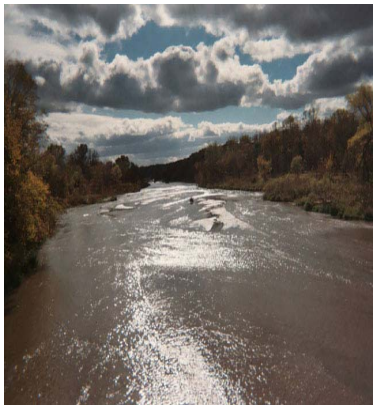
06465700 VERDIGRE C NR VERDIGRE, NE

Latitude: 42° 39 ' 16" Longitude: 098° 02 ' 34" Hydrologic Unit Code: 10150007

Knox County Datum: feet Drainage Area: mi^2







06465700 VERDIGRE CREEK NEAR VERDIGRE, NE

LOCATION—Lat 42°39'16", long 98°02'35", in NE 1/4 NE 1/4 sec.20, T.31 N., R.6 W., Knox County, Hydrologic Unit 10150007, on right bank, near downstream side of county bridge, 0.2 mile west of Highway 14, and 4.0 miles north of Verdigre.

DRAINAGE AREA —470 mi^2 approximately.

PERIOD OF RECORD—November 1957 to July 1958 (measurements only). May 2002 to current year.

GAGE—Water-stage recorder. Elevation of gage is 1,290 ft above sea level, from topographic map. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

06465700 VERDIGRE CREEK NEAR VERDIGRE, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	101	e110	e122	e100	265	116	102	108	76	53	32
2	86	112	e109	e124	e98	216	118	98	96	102	55	31
3	91	119	e108	e112	e92	162	118	97	93	165	52	38
4	89	106	e108	e98	e96	150	109	102	89	116	42	34
5	89	102	e106	e84	e102	156	120	101	95	112	39	42
6	87	107	e106	e86	e98	154	115	100	92	130	42	52
7	93	98	e110	e90	e92	150	110	97	84	116	49	45
8	99	99	108	e94	e96	136	105	95	81	110	46	33
9	95	105	e102	e96	e100	115	108	103	86	100	44	34
10	98	106	e96	e100	e102	101	109	126	135	90	46	32
11	132	114	e92	e108	e104	113	106	116	131	89	52	40
12	120	119	e94	e106	e98	126	108	103	98	77	55	44
13	107	119	e98	e104	e102	125	107	97	87	74	62	47
14	106	102	e96	e104	e104	116	109	96	100	75	61	59
15	102	113	e100	e104	e96	124	118	99	86	76	51	141
16	97	123	e102	e104	e104	123	113	107	127	81	48	104
17	98	116	e102	e110	e114	109	121	143	128	74	45	74
18	98	122	e110	e102	e140	131	124	114	114	60	46	70
19	101	134	e102	e96	e150	119	116	103	107	56	45	69
20	103	137	e104	e102	e170	110	136	96	114	59	38	64
21	104	122	e112	e108	e180	105	143	108	107	65	37	69
22	106	e116	e118	e106	e190	103	124	111	98	66	36	89
23	104	e104	e112	e116	e200	125	121	169	87	62	43	177
24	100	e96	e110	e110	e200	121	116	133	86	54	39	124
25	97	e102	e114	e106	e210	125	125	110	82	51	37	87
26	101	e104	e114	e100	e220	127	103	106	78	54	37	77
27	103	e104	e126	e88	e240	136	101	100	87	55	39	71
28	95	e102	e128	e90	e270	148	104	97	90	50	48	70
29	97	e108	e122	e90	e290	126	101	96	88	48	47	66
30	101	e114	e118	e94	---	122	100	212	84	48	47	67
31	90	---	e110	e98	---	119	---	152	---	44	40	---
TOTAL	3066	3326	3347	3152	4158	4158	3424	3489	2938	2435	1421	1982
MEAN	98.9	111	108	102	143	134	114	113	97.9	78.5	45.8	66.1
MAX	132	137	128	124	290	265	143	212	135	165	62	177
MIN	77	96	92	84	92	101	100	95	78	44	36	31
AC-FT	6080	6600	6640	6250	8250	8250	6790	6920	5830	4830	2820	3930

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	112	113	109	99.5	119	123	132	142	129	79.6	71.9	79.9
MAX	124	115	111	102	143	134	150	163	183	107	118	95.4
(WY)	2003	2003	2003	2004	2004	2004	2003	2003	2003	2003	2002	2002
MIN	98.9	111	108	97.4	94.6	113	114	113	97.9	53.8	45.8	66.1
(WY)	2004	2004	2004	2003	2003	2003	2004	2004	2004	2002	2004	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	41229		36896			
ANNUAL MEAN	113		101		108	
HIGHEST ANNUAL MEAN					116	2003
LOWEST ANNUAL MEAN					101	2004
HIGHEST DAILY MEAN	795	Jun 25	290	Feb 29	795	Jun 25 2003
LOWEST DAILY MEAN	20	Aug 27	31	Sep 2	20	Aug 27 2003
ANNUAL SEVEN-DAY MINIMUM	26	Aug 23	38	Aug 30	26	Aug 23 2003
MAXIMUM PEAK FLOW			291	May 30	*1190	Jun 25 2003
MAXIMUM PEAK STAGE			**4.75	Feb 9	**4.90	Feb 19 2003
ANNUAL RUNOFF (AC-FT)	81780		73180		78400	
10 PERCENT EXCEEDS	160		131		150	
50 PERCENT EXCEEDS	104		102		104	
90 PERCENT EXCEEDS	56		48		52	

e Estimated
* Stage 4.62 ft, from rating extended above 475 ft^3/s
** Backwater from ice

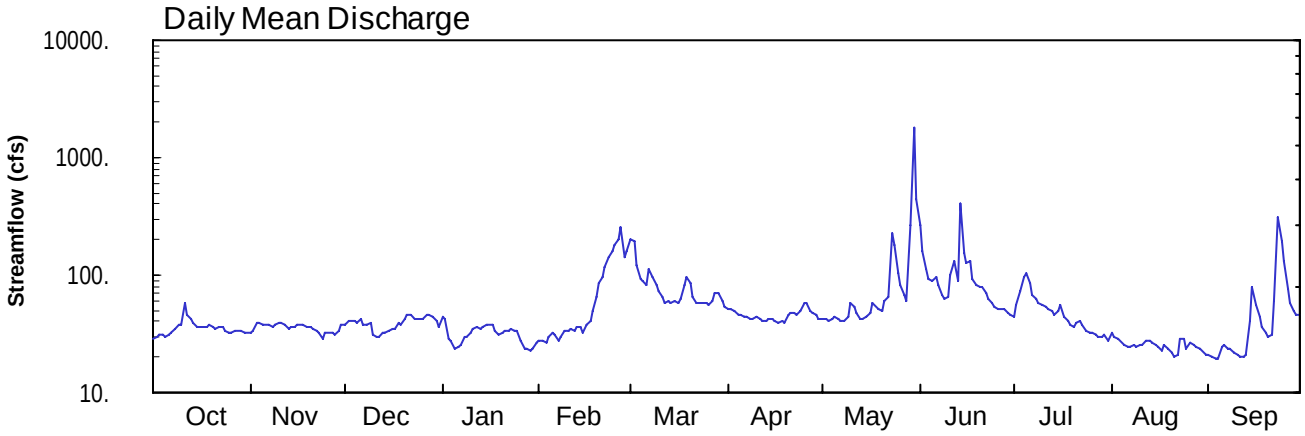
2004 Water Year

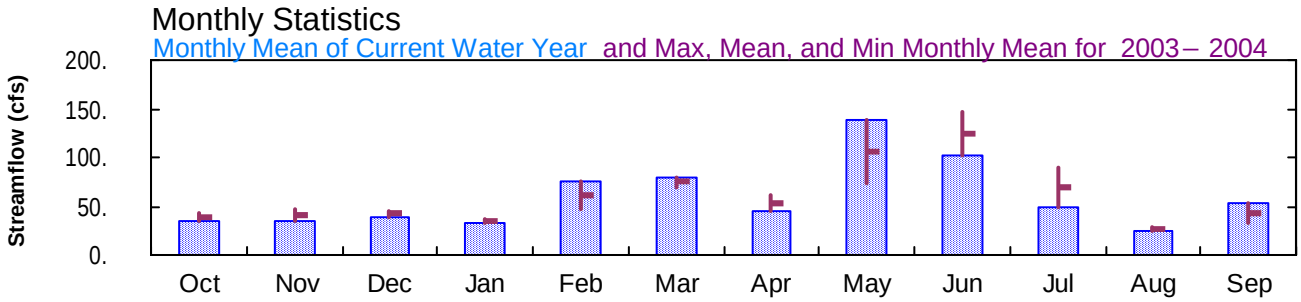
BAZILE CREEK BASIN

06466400 BAZILE CREEK AT CENTER, NE.

Latitude: 42° 36 ' 58 " Longitude: 097° 52 ' 41 " Hydrologic Unit Code: 10170101

Knox County Datum: 1380 feet Drainage Area: mi^2





06466400 BAZILE CREEK AT CENTER, NE

LOCATION—Lat 42°36' 58", long 97°52'10", in SE1/4 sec.34, T.31 N., R.5 W., Knox County, Hydrologic Unit 10170101, on right bank 40 ft shoreward and 40 ft downstream from centerline of State Highway 84 bridge, and 0.4 mi north of Center.

DRAINAGE AREA —315 mi^2 approximately.

PERIOD OF RECORD—October 2002 to current year.

GAGE—Water-stage recorder. Elevation of gage is 1,380 ft above sea level, from topographic map. Data collection platform at station.

REMARKS—Records good, except for estimated daily discharges, which are poor.

06466400 BAZILE CREEK AT CENTER, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	32	e38	44	e28	200	52	42	261	44	32	21
2	30	33	40	42	e28	192	51	42	157	55	30	20
3	31	39	41	29	e27	119	49	41	110	74	29	20
4	31	39	41	e28	e30	91	46	43	91	96	28	20
5	30	38	40	e24	e32	88	45	43	89	106	25	24
6	31	38	42	e25	e31	84	45	42	97	86	25	25
7	32	38	38	e26	e28	112	44	40	81	69	24	23
8	34	36	38	e30	e30	97	43	41	69	62	26	23
9	38	38	39	e30	e34	81	43	45	63	59	25	22
10	37	39	31	e32	e34	73	44	58	64	56	25	21
11	57	39	e30	e35	e35	64	43	53	100	53	25	21
12	46	38	e30	e36	e34	58	41	47	133	51	27	20
13	42	35	e32	e35	e36	60	41	43	90	49	27	21
14	39	37	e32	e36	e36	58	42	43	408	45	26	40
15	36	37	e34	e37	e32	60	42	44	155	49	26	79
16	36	37	e35	e38	e37	58	41	48	126	56	25	55
17	37	37	e35	e38	e40	64	39	57	129	43	23	45
18	37	37	e39	e34	e50	82	41	54	92	41	26	36
19	37	36	e38	e31	e66	94	40	52	81	38	24	32
20	37	36	e42	e32	e86	85	46	50	80	37	22	30
21	35	35	e45	e34	e96	66	48	61	78	39	20	31
22	36	34	46	e33	e118	58	48	65	71	40	21	60
23	36	e32	42	e35	e144	58	46	229	63	38	29	315
24	34	e29	42	e34	e160	57	49	181	57	34	29	193
25	32	e32	42	e33	e180	57	57	104	54	33	24	133
26	32	e32	42	e28	e200	55	58	82	52	32	26	77
27	33	e32	46	e24	251	60	50	69	51	31	26	58
28	33	e31	46	e24	143	70	48	61	51	30	25	50
29	33	e33	45	e23	159	71	45	263	48	30	24	46
30	33	e37	41	e24	---	60	42	1810	46	31	23	45
31	32	---	36	e27	---	54	---	437	---	27	21	---
TOTAL	1096	1066	1208	981	2205	2486	1369	4290	3047	1534	788	1606
MEAN	35.4	35.5	39.0	31.6	76.0	80.2	45.6	138	102	49.5	25.4	53.5
MAX	57	39	46	44	251	200	58	1810	408	106	32	315
MIN	29	29	30	23	27	54	39	40	46	27	20	20
AC-FT	2170	2110	2400	1950	4370	4930	2720	8510	6040	3040	1560	3190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	38.9	41.6	42.3	34.4	62.1	74.7	53.7	106	124	69.5	26.9	42.7
MAX	42.4	47.7	45.6	37.2	76.0	80.2	61.8	138	146	89.5	28.4	53.5
(WY)	2003	2003	2003	2003	2004	2004	2003	2004	2003	2003	2003	2004
MIN	35.4	35.5	39.0	31.6	47.7	69.2	45.6	73.2	102	49.5	25.4	31.9
(WY)	2004	2004	2004	2004	2003	2003	2004	2003	2004	2004	2004	2003

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2003 - 2004	
ANNUAL TOTAL	21133		21676			
ANNUAL MEAN	57.9		59.2		59.6	
HIGHEST ANNUAL MEAN					60.1	2003
LOWEST ANNUAL MEAN					59.2	2004
HIGHEST DAILY MEAN	1800	Jun 24	1810	May 30	1810	May 30 2004
LOWEST DAILY MEAN	20	Sep 7	20	Aug 21	20	Sep 7 2003
ANNUAL SEVEN-DAY MINIMUM	21	Sep 2	21	Aug 29	21	Sep 2 2003
MAXIMUM PEAK FLOW			3180	May 30	3180	May 30 2004
MAXIMUM PEAK STAGE			7.65	May 30	7.65	May 30 2004
ANNUAL RUNOFF (AC-FT)	41920		42990		43210	
10 PERCENT EXCEEDS	76		93		82	
50 PERCENT EXCEEDS	42		40		44	
90 PERCENT EXCEEDS	30		26		27	

e Estimated

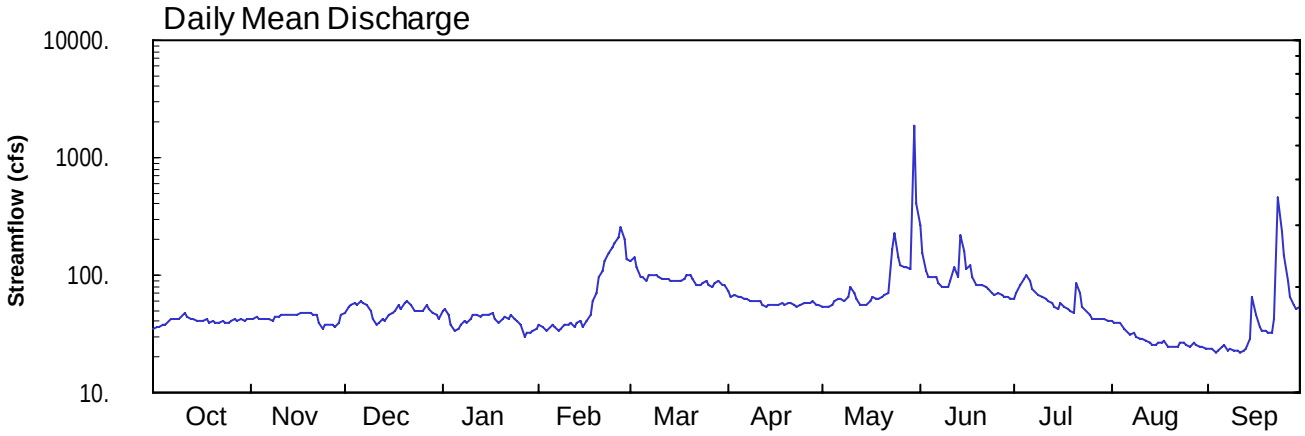
2004 Water Year

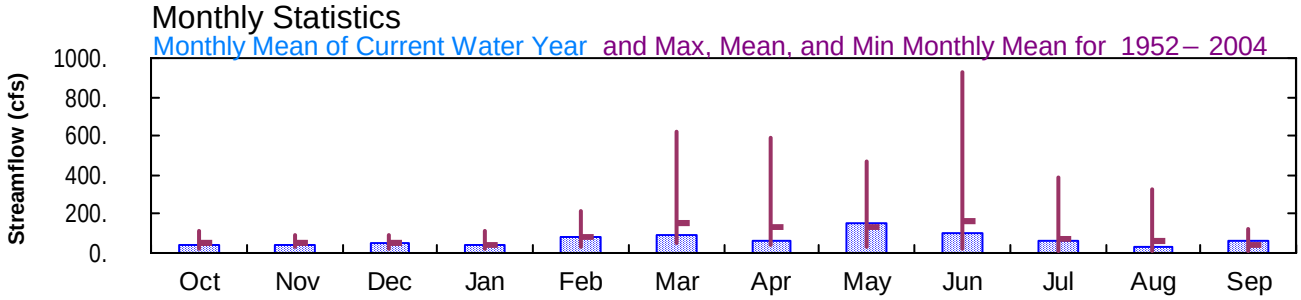
BAZILE CREEK BASIN

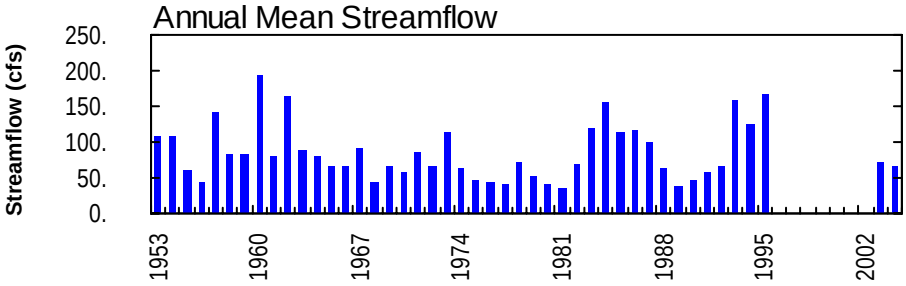
06466500 BAZILE CREEK NEAR NIOBRARA, NE

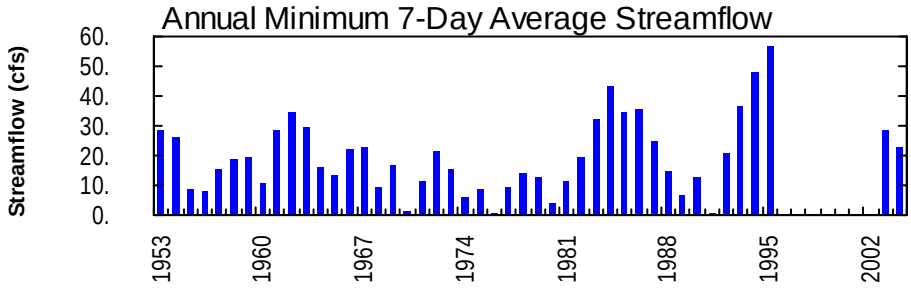
Latitude: 42° 45 ' 23" Longitude: 097° 56 ' 48" Hydrologic Unit Code: 10170101

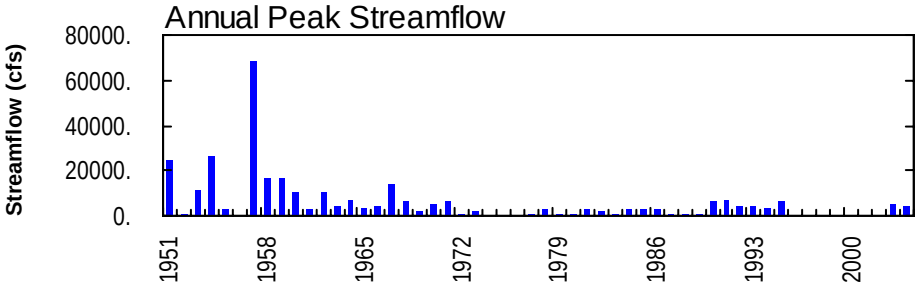
Knox County Datum: 1210.81 feet Drainage Area: 440. mi^2











06466500 BAZILE CREEK NEAR NIOBRARA, NE

LOCATION—Lat 42°43' 56", long 97°55'21", in SE1/4 sec.20, T.32 N., R.5 W., Knox County, Hydrologic Unit 10170101, on right bank 50 ft shoreward and 10 ft downstream from centerline of county bridge, 0.8 mi south of State Highway 12, and 8.5 mi north of Center.

DRAINAGE AREA —457 mi^2 approximately.

PERIOD OF RECORD—May 1952 to September 1995. October 2002 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.

REVISED RECORDS—WSP 1279: 1952. WSP 1729: 1958(M). WDR NE-81-1: 1977, 1979-80. See also PERIOD OF RECORD.

GAGE—Water-stage recorder. Datum of gage is 1,243.32 ft above sea level. Prior to Dec. 16, 1952, non-recording gage only. December 16, 1952 to June 16, 1957, water stage recorder at site 1.8 mi downstream at datum 28.51 ft lower. June 17, 1957 to September 14, 1958 at site 1.8 mi downstream at datum 24.31 ft lower. September 15, 1958 to September 30, 1995 at site 1.8 mi downstream at datum 32.51 ft lower. Data collection platform at station.

REMARKS—Records fair, except for estimated daily discharges, which are poor. Minor diversions for irrigation above station.

06466500 BAZILE CREEK NEAR NIOBRARA, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	42	e47	e49	e37	129	74	54	262	62	40	23
2	36	43	e53	e52	e36	142	64	54	156	71	39	23
3	36	45	e56	e46	e33	115	67	54	110	82	39	22
4	37	42	58	e37	e35	97	66	57	94	94	39	22
5	38	42	55	e33	e37	97	65	61	95	100	35	24
6	40	42	60	e35	e36	89	62	64	97	88	32	25
7	42	42	58	e38	e33	100	63	62	87	76	31	22
8	42	41	55	e40	e35	101	60	60	80	71	32	23
9	43	43	e50	e39	e38	99	61	64	79	69	30	23
10	43	43	e43	e42	e38	95	60	79	79	66	29	22
11	47	45	e38	e46	e39	92	59	71	90	64	28	22
12	44	46	e39	e45	e36	91	55	64	119	60	27	23
13	42	46	e42	e44	e39	91	53	56	97	57	27	24
14	42	46	e41	e46	e40	89	55	55	217	54	26	29
15	40	46	e46	e45	e36	90	55	57	161	52	26	65
16	41	46	e48	e45	e41	89	56	60	111	59	26	45
17	41	47	e50	e47	e45	88	55	65	120	53	26	36
18	42	47	e56	e42	e60	94	57	63	95	51	28	34
19	40	48	e52	e39	e70	100	56	63	82	49	25	34
20	40	47	e58	e42	e96	102	57	64	83	48	24	33
21	40	46	e60	e44	e110	92	57	67	82	86	24	32
22	40	e45	e56	e43	e130	83	56	71	79	69	25	42
23	41	e39	e50	e45	e155	84	54	164	76	54	26	450
24	40	e35	e49	e43	e170	84	55	224	72	49	27	237
25	39	e38	e50	e41	e190	87	57	145	68	45	26	147
26	40	e37	e50	e37	e210	81	57	123	69	42	25	90
27	42	e37	e56	e30	e260	80	58	117	68	42	26	64
28	41	e36	e52	e32	e200	87	59	115	65	42	25	55
29	42	e39	e48	e32	135	87	56	113	64	42	24	51
30	42	e45	e46	e33	---	82	56	1870	63	42	24	53
31	42	---	e42	e35	---	82	---	408	---	41	24	---
TOTAL	1260	1286	1564	1267	2420	2919	1765	4644	3020	1880	885	1795
MEAN	40.6	42.9	50.5	40.9	83.4	94.2	58.8	150	101	60.6	28.5	59.8
MAX	47	48	60	52	260	142	74	1870	262	100	40	450
MIN	35	35	38	30	33	80	53	54	63	41	24	22
AC-FT	2500	2550	3100	2510	4800	5790	3500	9210	5990	3730	1760	3560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2004, BY WATER YEAR (WY)

MEAN	48.4	52.3	46.1	45.6	78.4	152	131	128	160	76.4	56.8	45.3
MAX	108	96.4	96.3	108	213	621	587	469	933	388	326	118
(WY)	1985	1994	1994	1995	1971	1962	1960	1960	1957	1993	1960	1992
MIN	24.4	25.9	24.5	18.4	26.0	48.0	37.9	30.6	24.6	8.44	7.95	9.48
(WY)	1990	1990	1990	1979	1978	1981	1981	1981	1956	1980	1991	1991

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1952 - 2004	
ANNUAL TOTAL	26169		24705			
ANNUAL MEAN	71.7		67.5		85.2	
HIGHEST ANNUAL MEAN					194	1960
LOWEST ANNUAL MEAN					34.9	1981
HIGHEST DAILY MEAN	1860	Jun 24	1870	May 30	12300	Jun 16 1957
LOWEST DAILY MEAN	27	Aug 16	22	Sep 3	0.00	Jul 24 1976
ANNUAL SEVEN-DAY MINIMUM	28	Aug 15	23	Sep 7	0.77	Aug 25 1976
MAXIMUM PEAK FLOW			4780	May 30	68600	Jun 16 1957
MAXIMUM PEAK STAGE			6.14	May 30	*20.25	Feb 19 1971
ANNUAL RUNOFF (AC-FT)	51910		49000		61690	
10 PERCENT EXCEEDS	91		100		140	
50 PERCENT EXCEEDS	56		50		51	
90 PERCENT EXCEEDS	35		30		23	

e Estimated
* Backwater from ice

06467000 LEWIS AND CLARK LAKE NEAR YANKTON, SD

LOCATION.--Lat 42°50'56", long 97°28'54", in SW$^1/_4$ sec.7, T.33 N., R.1 W., Cedar County, NE, Hydrologic Unit 10170101, in powerhouse of Gavins Point Dam on Missouri River, 3.75 mi southwest of Yankton, 13.6 mi upstream from James River, 32.5 mi downstream from Niobrara River, and at mile 811.0.

DRAINAGE AREA.--279,500 mi^2, approximately.

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

GAGE.--Water-stage recorder. Elevations listed to NGVD of 1929. Prior to Dec. 9, 1955, recorder at temporary location on wall of intake structure unit 3.

REMARKS.--Reservoir is formed by earthfill dam; storage began in July 1955. Maximum capacity, 504,000 acre-ft below elevation 1,210.0 ft (top of spillway gates). Normal maximum, 442,600 acre-ft below elevation 1,208.0 ft. Inactive storage, 157,000 acre-ft below elevation 1,195.0 ft. Dead storage, 23,000 acre-ft below elevation 1,180.0 ft (crest of spillway). From capacity table put into use Nov. 1, 1986; maximum capacity, 491,700 acre-ft. Normal maximum, 432,000 acre-ft. Inactive storage, 149,400 acre-ft. Dead storage, 17,700 acre-ft. Figures given herein represent elevations at powerhouse and total contents adjusted for wind effect.

The spillway consists of 14 taintor gates, each 40 ft wide by 30 ft high; spillway capacity, 280,000 ft^3/s at pool elevation 1,210.0 ft. Crest of spillway is at elevation 1,180.0 ft. Normal releases are through 3 power units, installation completed in January 1957; maximum release through power units is 35,000 ft^3/s at pool elevation, 1,210.0 ft. Water is used for flood control, navigation, power, and incidental uses.

COOPERATION.--Records of elevation and contents provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 565,000 acre-ft, Apr. 1, 1960, affected by wind; maximum elevation, 1,210.6 ft, Mar. 29, 1960; minimum since initial filling, 61,950 acre-ft, Apr. 23, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 422,000 acre-ft, Sept. 23; minimum contents, 337,000 acre-ft, May 8.

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Elevation	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	1,207.35	393,000	--
Oct. 31	1,207.64	401,000	+8,000
Nov. 30	1,207.63	401,000	0
Dec. 31	1,207.44	393,000	-6,000
CAL YR 2003	--	--	+11,000
Jan. 31	1,205.82	352,000	-43,000
Feb. 29	1,207.10	388,000	+36,000
Mar. 31	1,206.25	364,000	-24,000
Apr. 30	1,205.77	352,000	-12,000
May 31	1,207.22	389,000	+37,000
June 30	1,205.79	352,000	-37,000
July 31	1,207.21	390,000	+38,000
Aug. 31	1,207.32	393,000	+3,000
Sept. 30	1,207.06	386,000	-7,000
WTR YR 2004	--	--	-7,000

NOTE.--Lake frozen over Dec. 16 to Mar. 19.

06486000 MISSOURI RIVER AT SIOUX CITY, IA

LOCATION—Lat. 42°29'09", long 96°24'49", in NW¼ SE¼ sec.16, T.29 N., R.9 E., sixth prinicipal meridian, Dakota County, Nebraska, Hydrologic Unit 10230001, on right bank on upstream side of bridge on U.S. Highway 20 and 77 at South Sioux City, Nebraska, 1.9 mi downstream from Big Sioux River, and at mile 732.2.

DRAINAGE—314,600 mi^2, approximately. The 3,959 mi^2 in Great Divide basin are not included.

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

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

GAGE—Water-stage recorder. Datum of gage is 1,056.98 ft above NGVD of 1929. Sept. 2, 1878 to Dec. 31, 1905, nonrecording gages at various locations within 1.7 mi 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 site 227 ft downstream at datum 19.98 ft higher, and Oct. 1, 1969 to Sept. 30, 1970 at datum 20.00 ft higher. Oct. 1, 1970 to Jan. 30, 1981, water-stage recorder at site 227 ft downstream at present datum.

REMARKS—Records good except those for estimated daily discharges, which are poor. Flow regulated by upstream main-stem reservoirs. Fort Randall Dam was completed in July 1952, with storage beginning in December 1952. Gavins Point Dam was completed in July 1955, with storage beginning in December 1955. U.S. Army Corps of Engineers rain gage and satellite data collection platform at station.

COOPERATION—Records provided by U.S. Geological Survey, Iowa Water Science Center.

EXTREMES FOR PERIOD OF RECORD—Maximum discharge, 441,000 ft^3/s Apr. 14, 1952, gage height, 24.28 ft, datum then in use; minimum, 2,500 ft^3/s Dec. 29, 1941; minimum gage height, 7.02 ft Jan. 19, 1996.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27,800	28,600	13,800	15,700	16,200	16,000	21,100	24,200	33,700	29,600	26,600	26,800
2	27,900	29,400	13,700	15,900	17,600	16,700	20,600	27,000	37,500	29,900	26,700	27,200
3	28,000	29,700	13,700	15,800	17,600	17,900	20,500	28,100	36,200	31,900	26,800	27,500
4	28,000	29,800	13,600	14,800	15,900	18,700	21,100	27,900	35,200	31,600	27,200	27,900
5	28,100	29,400	13,400	14,600	15,200	19,100	21,200	27,900	37,200	31,700	27,100	28,300
6	28,100	29,100	13,100	12,700	16,400	17,100	21,300	28,100	37,900	31,600	27,200	28,300
7	28,000	28,800	13,000	14,100	15,400	16,300	22,400	27,900	36,900	32,400	28,200	27,700
8	28,000	28,800	13,100	15,100	14,600	15,500	23,200	28,100	36,200	33,100	28,300	27,800
9	28,700	29,000	13,600	16,300	15,400	14,400	22,800	30,600	35,400	33,900	28,100	28,500
10	28,900	29,000	13,000	15,900	16,000	13,200	23,000	30,600	34,800	33,400	27,900	28,700
11	29,200	29,200	12,500	15,800	15,700	12,800	23,700	29,400	34,900	32,200	27,800	28,800
12	29,100	29,400	14,000	16,200	15,100	12,300	23,700	30,500	34,400	31,400	27,600	29,000
13	28,400	29,000	15,200	16,200	13,900	12,000	23,500	29,900	34,100	31,000	27,500	29,000
14	28,400	28,900	15,900	15,100	15,200	13,000	23,300	27,700	34,700	30,700	27,200	31,800
15	28,300	29,200	16,100	14,600	14,900	13,300	23,500	30,400	34,500	30,300	26,900	33,400
16	27,800	29,100	16,000	13,800	13,800	13,300	23,900	28,700	34,800	29,200	26,900	33,400
17	27,800	29,200	15,500	13,800	13,800	12,900	23,800	27,300	34,200	28,800	26,800	31,700
18	27,800	29,000	16,500	14,700	13,700	12,700	24,200	30,400	34,100	28,500	27,200	29,500
19	28,200	25,800	15,900	14,300	13,800	12,700	25,000	28,300	35,800	28,300	27,000	27,600
20	28,500	22,100	14,500	14,700	13,600	14,100	24,700	26,600	35,600	28,100	26,600	26,400
21	28,500	20,200	14,300	15,500	12,900	17,100	25,500	31,000	34,300	28,200	26,600	25,700
22	28,400	17,600	13,500	15,400	13,200	18,800	25,300	34,000	32,900	28,200	26,500	24,500
23	28,400	15,500	13,400	16,800	13,300	20,200	25,500	32,300	31,900	27,700	26,800	24,700
24	28,400	14,000	13,200	18,100	12,400	20,200	25,400	35,800	31,400	27,300	27,100	24,700
25	28,400	13,600	13,300	16,400	11,900	21,000	25,300	34,100	30,900	27,300	27,100	24,800
26	28,300	13,700	13,600	16,900	11,500	22,700	24,700	30,800	30,200	27,300	27,000	24,800
27	28,400	13,800	15,400	14,500	11,700	23,400	23,400	33,900	29,900	27,200	26,900	24,100
28	28,700	13,600	16,000	11,800	12,900	24,400	21,900	31,300	29,700	27,200	27,000	23,400
29	28,300	13,400	15,700	14,300	14,100	24,300	22,600	29,200	29,500	27,200	26,700	23,100
30	28,300	13,800	15,500	15,400	---	23,800	22,800	35,400	29,500	27,000	26,800	23,000
31	28,400	---	15,600	15,700	---	22,200	---	35,900	---	26,700	26,600	---
TOTAL	877,500	721,700	445,600	470,900	417,700	532,100	698,900	933,300	1,018,300	918,900	840,700	822,100
MEAN	28,310	24,060	14,370	15,190	14,400	17,160	23,300	30,110	33,940	29,640	27,120	27,400
MAX	29,200	29,800	16,500	18,100	17,600	24,400	25,500	35,900	37,900	33,900	28,300	33,400
MIN	27,800	13,400	12,500	11,800	11,500	12,000	20,500	24,200	29,500	26,700	26,500	23,000
AC-FT	1,741,000	1,431,000	883,800	934,000	828,500	1,055,000	1,386,000	1,851,000	2,020,000	1,823,000	1,668,000	1,631,000
CFSM	0.09	0.08	0.05	0.05	0.05	0.05	0.07	0.10	0.11	0.09	0.09	0.09
IN.	0.10	0.09	0.05	0.06	0.05	0.06	0.08	0.11	0.12	0.11	0.10	0.10

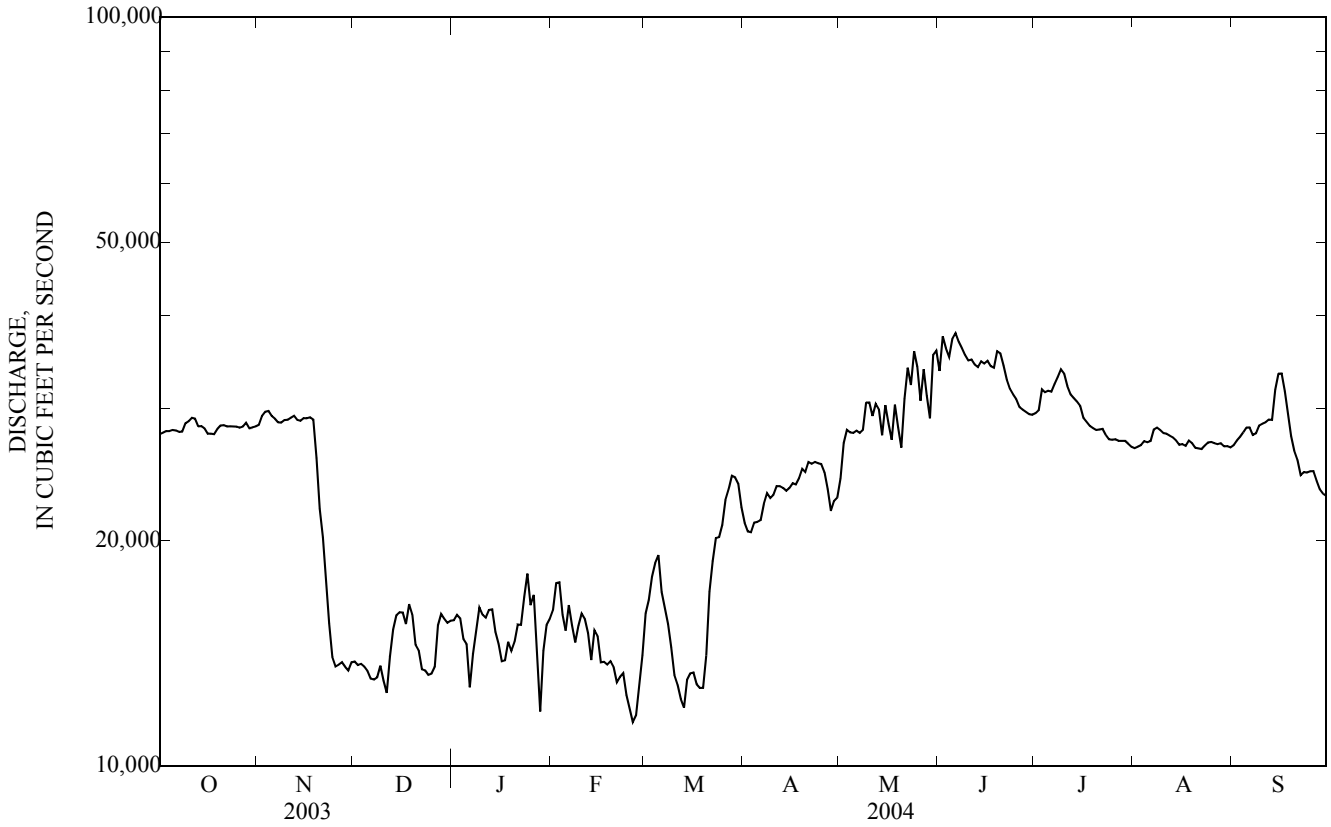
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

MEAN	35,920	31,120	18,740	16,090	17,160	23,090	33,060	33,730	35,380	35,810	36,070	36,390
MAX	69,300	71,600	39,880	27,720	31,120	47,020	88,040	78,720	66,400	65,550	65,360	66,400
(WY)	(1998)	(1998)	(1998)	(1987)	(1997)	(1997)	(1997)	(1997)	(1997)	(1997)	(1997)	(1997)
MIN	14,350	6,951	8,271	7,316	6,293	9,135	17,450	23,820	23,270	26,380	24,270	25,790
(WY)	(1962)	(1962)	(1962)	(1964)	(1963)	(1957)	(1957)	(1962)	(1960)	(2002)	(1993)	(1962)

06486000 MISSOURI RIVER AT SIOUX CITY, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004	
ANNUAL TOTAL	8,568,800		8,697,700			
ANNUAL MEAN	23,480		23,760		29,420	
HIGHEST ANNUAL MEAN					55,890	1997
LOWEST ANNUAL MEAN					19,770	1957
HIGHEST DAILY MEAN	35,000	Sep 11	37,900	Jun 6	105,000	Jun 25, 1953
LOWEST DAILY MEAN	10,100	Feb 25	11,500	Feb 26	3,000	Dec 11, 1961
ANNUAL SEVEN-DAY MINIMUM	12,800	Mar 5	12,400	Feb 21	5,430	Feb 22, 1963
MAXIMUM PEAK FLOW			39,200	May 30	101,000	Apr 3, 1960
MAXIMUM PEAK STAGE			18.30	Jun 2	30.65	Feb 19, 1971
INSTANTANEOUS LOW FLOW			10,700	Jan 28		
ANNUAL RUNOFF (AC-FT)	17,000,000		17,250,000		21,310,000	
ANNUAL RUNOFF (CFSM)	0.075		0.076		0.094	
ANNUAL RUNOFF (INCHES)	1.01		1.03		1.27	
10 PERCENT EXCEEDS	29,600		32,000		46,000	
50 PERCENT EXCEEDS	26,300		26,700		29,800	
90 PERCENT EXCEEDS	13,700		13,600		12,200	

a Post regulation.
b Also June 2.



06486000 MISSOURI RIVER AT SIOUX CITY, IA—Continued

WATER-QUALITY RECORDS

LOCATION—Samples collected from U.S. Highway 20 and 77 bridge in South Sioux City.

PERIOD OF RECORD—October 1971 to September 30, 2000; October 1, 2003 to September 30, 2004. Daily sediment loads for October 1954 to September 1971 are in reports of U.S. Army Corps of Engineers.

PERIOD OF DAILY RECORD—
SPECIFIC CONDUCTANCE: October 1972 to September 1976, November 1977 to September 1981, October 1991 to September 30, 2000, October 1, 2003 to September 30, 2004.
WATER TEMPERATURES: October 1971 to September 1976, November 1977 to September 1981, October 1991 to September 30, 2000, October 1, 2003 to September 30, 2004.
SUSPENDED-SEDIMENT DISCHARGE: October 1971 to September 1976, October 1991 to September 30, 2000, October 1, 2003 to September 30, 2004.

REMARKS—Records of specific conductance are obtained from suspended-sediment samples at time of analysis.

COOPERATION—Records provided by U.S. Geological Survey, Iowa Water Science Center.

EXTREMES FOR PERIOD OF DAILY RECORD—
SPECIFIC CONDUCTANCE: Maximum daily, 985 microsiemens Apr. 19, 1999; minimum daily, 410 microsiemens Mar. 22, 1978.
WATER TEMPERATURES: Maximum daily, 28.0°C July 30, 1976, Aug. 7, 1979, July 28, 1997, and July 22, 2004; minimum daily, 0.0°C on many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,420 mg/L May 18, 2000; minimum daily mean, 41 mg/L Dec. 6, 7, 2003.
SEDIMENT LOADS: Maximum daily, 370,000 tons July 17, 1996; minimum daily, 1,440 tons Dec. 7, 2003.

EXTREMES FOR CURRENT YEAR—
SPECIFIC CONDUCTANCE: Maximum daily, 799 microsiemens Nov. 24; minimum daily, 648 microsiemens Mar. 22.
WATER TEMPERATURES: Maximum daily, 28.0°C July 22; minimum daily, 1.0°C Dec. 15, Jan. 12.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 906 mg/L Mar. 3; minimum daily mean, 41 mg/L Dec. 6, 7.
SEDIMENT LOADS: Maximum daily, 54,600 tons May 27; minimum daily, 1,440 tons Dec. 7.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Bed sediment, dry svd sve dia percent <.063mm (80164)	Bed sediment, dry svd sve dia percent <.125mm (80165)	Bed sediment, dry svd sve dia percent <.25mm (80166)	Bed sediment, dry svd sve dia percent <.5 mm (80167)	Bed sediment, dry svd sve dia percent <1 mm (80168)	Bed sediment, dry svd sve dia percent <2 mm (80169)	Bed sediment, dry svd sve dia percent <4 mm (80170)	Bed sediment, dry svd sve dia percent <8 mm (80171)	Bed sediment, dry svd sve dia percent <16 mm (80172)	Number of sampling points, count (00063)
OCT											
10...	1320	.0	.0	9	70	97	99	100	100	--	3
NOV											
14...	1230	.0	.0	12	77	97	100	100	--	--	3
DEC											
22...	1040	.0	.0	12	67	89	95	99	100	--	3
JAN											
12...	1120	.0	.0	9	69	93	97	98	100	100	3
FEB											
18...	1130	.0	.0	4	67	95	98	99	99	100	3
MAR											
02...	1210	.0	.0	2	60	93	99	100	100	--	3
APR											
05...	1110	.0	.0	12	87	100	100	--	--	--	3
MAY											
03...	1040	.0	.0	14	81	99	100	100	--	--	3
JUN											
03...	1210	.0	.0	6	74	97	99	99	100	100	3
JUL											
09...	1000	.0	.0	12	78	97	99	100	100	--	3
AUG											
06...	1005	.0	.0	14	80	97	99	100	100	--	3

06486000 MISSOURI RIVER AT SIOUX CITY, IA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, LABORATORY, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	769	---	---	---	---	---	---	714	---	742
2	---	---	---	---	---	724	746	---	---	---	747	---
3	---	730	---	---	---	---	---	736	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	747	732	---	---	---	---
6	725	---	---	---	---	---	---	---	---	725	748	---
7	---	740	---	---	---	---	---	---	741	---	---	721
8	---	---	---	---	---	697	747	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	757	---	724
10	736	737	---	---	---	---	---	739	753	---	760	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	719	---	---	---	---	---	751	---	---
13	---	---	---	---	---	---	728	739	---	---	742	726
14	735	721	---	---	---	---	---	---	754	---	---	---
15	---	---	761	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	745	---	---	767	735	710
17	739	737	---	---	---	---	---	730	765	---	---	---
18	---	---	---	---	741	714	---	---	---	---	---	---
19	---	---	---	---	---	---	730	---	---	760	---	---
20	---	---	---	---	---	---	---	---	---	---	748	731
21	735	758	---	---	---	---	---	734	741	---	---	---
22	---	---	753	---	---	648	---	---	---	733	---	---
23	---	---	---	---	770	---	---	---	---	---	---	730
24	735	799	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	762	---	---	---
26	---	---	---	---	---	662	768	770	---	760	---	---
27	728	---	---	---	---	---	---	---	---	---	738	730
28	---	---	---	---	---	---	---	---	721	---	---	---
29	---	---	---	---	---	714	---	---	---	745	---	---
30	---	---	769	---	---	---	747	---	---	---	743	---
31	738	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	4.6	---	---	---	---	---	---	24.0	---	24.0
2	---	---	---	---	---	1.5	12.0	---	---	---	27.0	---
3	---	8.0	---	---	---	---	---	12.5	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	11.0	16.0	---	---	---	---
6	16.0	---	---	---	---	---	---	---	---	23.0	24.5	---
7	---	5.5	---	---	---	---	---	---	22.5	---	---	22.0
8	---	---	---	---	---	4.5	12.5	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	22.0	---	21.5
10	18.0	5.7	---	---	---	---	---	19.5	22.0	---	23.0	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	1.0	---	---	---	---	---	26.0	---	---
13	---	---	---	---	---	---	10.5	20.0	---	---	22.0	22.5
14	16.0	6.0	---	---	---	---	---	---	24.0	---	---	---
15	---	---	1.0	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	13.0	---	---	27.0	21.0	21.0
17	14.0	7.5	---	---	---	---	---	16.5	23.0	---	---	---
18	---	---	---	---	1.5	6.5	---	---	---	---	---	---
19	---	---	---	---	---	---	16.0	---	---	27.0	---	---
20	---	---	---	---	---	---	---	---	---	---	22.5	21.0
21	15.5	7.2	---	---	---	---	---	18.5	22.0	---	---	---
22	---	---	2.0	---	---	7.0	---	---	---	28.0	---	---
23	---	---	---	---	1.5	---	---	---	---	---	---	20.5
24	14.0	4.0	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	21.0	---	---	---
26	---	---	---	---	---	11.0	14.0	17.0	---	25.0	---	---
27	11.5	---	---	---	---	---	---	---	---	---	23.5	20.0
28	---	---	---	---	---	---	---	---	21.0	---	---	---
29	---	---	---	---	---	9.0	---	---	---	24.0	---	---
30	---	---	1.5	---	---	---	13.0	---	---	---	24.0	---
31	9.5	---	---	---	---	---	---	---	---	---	---	---

06486000 MISSOURI RIVER AT SIOUX CITY, IA—Continued

SUSPENDED-SEDIMENT
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Day	Mean concen-tration (mg/l)	Load (tons/ day)	Mean concen-tration (mg/l)	Load (tons/ day)	Mean concen-tration (mg/l)	Load (tons/ day)	Mean concen-tration (mg/l)	Load (tons/ day)	Mean concen-tration (mg/l)	Load (tons/ day)	Mean concen-tration (mg/l)	Load (tons/ day)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	396	29,700	213	16,400	80	2,970	59	2,520	101	4,410	564	24,500
2	438	33,000	225	17,900	73	2,680	62	2,680	114	5,400	857	38,600
3	464	35,100	184	14,800	65	2,390	65	2,760	122	5,780	906	43,800
4	489	37,000	210	16,900	57	2,080	62	2,460	111	4,770	881	44,400
5	515	39,100	213	16,900	49	1,770	55	2,180	99	4,060	790	40,800
6	522	39,500	193	15,200	41	1,470	55	1,910	97	4,300	614	28,400
7	436	32,900	175	13,600	41	1,440	67	2,570	98	4,080	430	18,900
8	339	25,600	162	12,600	42	1,490	87	3,580	99	3,920	263	11,000
9	241	18,700	160	12,600	57	2,120	131	5,740	104	4,330	202	7,870
10	157	12,300	165	12,900	56	1,990	129	5,540	112	4,840	164	5,860
11	173	13,600	188	14,800	44	1,490	128	5,470	115	4,900	140	4,850
12	188	14,800	305	24,200	47	1,790	121	5,290	108	4,400	117	3,880
13	144	11,000	357	28,000	51	2,080	112	4,910	102	3,840	109	3,530
14	139	10,700	608	47,500	54	2,310	101	4,130	106	4,350	136	4,800
15	139	10,600	556	43,800	56	2,440	84	3,330	110	4,420	140	5,050
16	138	10,400	446	35,100	54	2,350	68	2,530	105	3,910	139	5,020
17	138	10,400	370	29,200	55	2,290	71	2,670	99	3,690	122	4,220
18	139	10,400	425	33,300	96	4,280	82	3,250	97	3,580	107	3,690
19	191	14,600	358	25,000	105	4,520	92	3,540	116	4,350	110	3,760
20	285	21,900	274	16,400	95	3,740	94	3,710	129	4,740	122	4,640
21	353	27,200	196	10,700	117	4,520	93	3,880	120	4,190	144	6,670
22	293	22,500	163	7,800	95	3,460	93	3,860	123	4,380	167	8,470
23	217	16,600	143	5,980	81	2,920	112	5,110	128	4,610	192	10,500
24	148	11,300	123	4,640	67	2,390	135	6,590	112	3,770	193	10,600
25	134	10,300	108	3,980	62	2,240	114	5,080	93	3,000	182	10,300
26	133	10,100	95	3,510	65	2,400	89	4,050	96	2,980	171	10,500
27	143	11,000	83	3,090	96	3,990	65	2,600	109	3,450	167	10,600
28	208	16,200	81	2,980	108	4,640	54	1,740	201	7,000	164	10,800
29	167	12,800	81	2,940	80	3,420	65	2,500	372	14,100	160	10,500
30	187	14,300	81	3,010	57	2,400	76	3,170	---	---	153	9,850
31	203	15,600	---	---	57	2,400	88	3,730	---	---	145	8,710
TOTAL	---	599,200	---	495,730	---	82,470	---	113,080	---	135,550	---	415,070

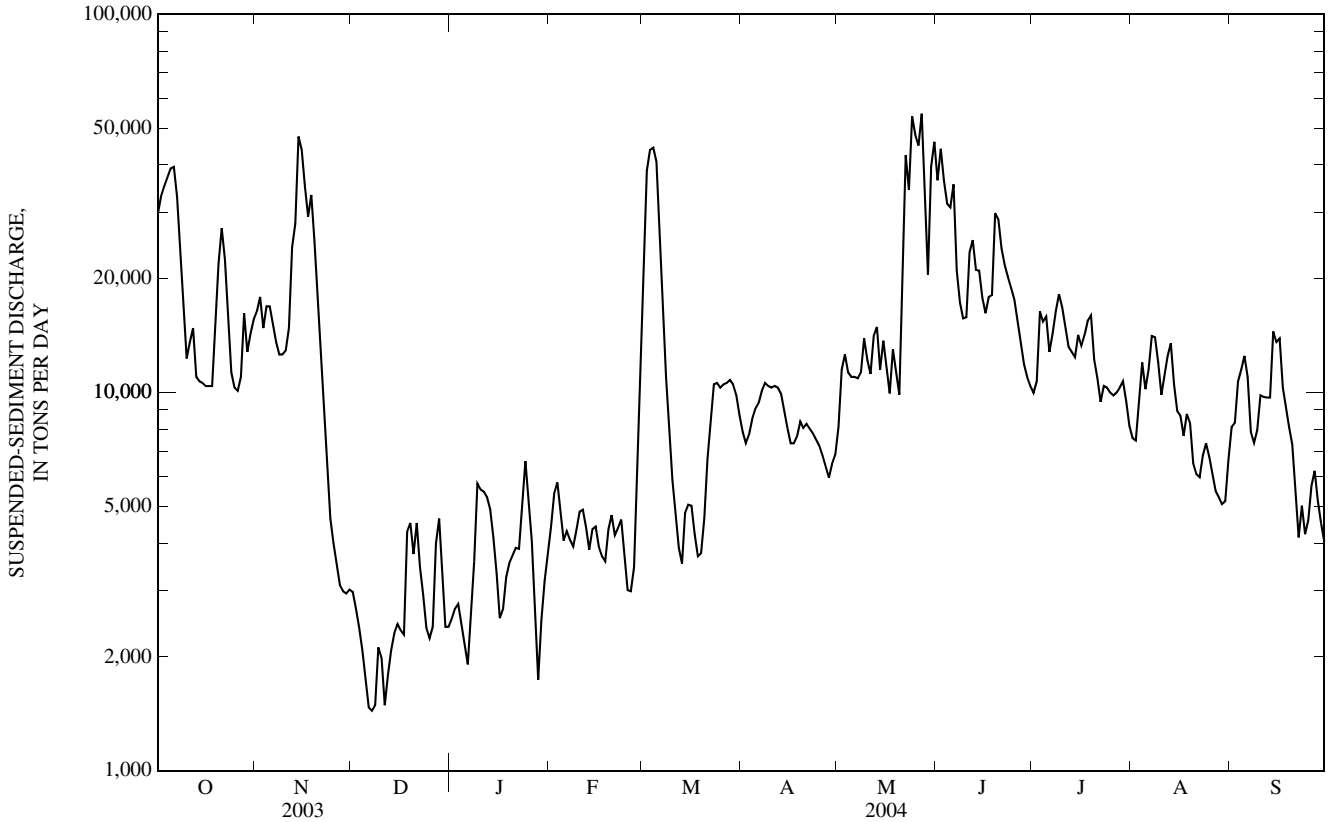
06486000 MISSOURI RIVER AT SIOUX CITY, IA—Continued

SUSPENDED-SEDIMENT—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Day	Mean concen-tration (mg/l)	Load (tons/day)	Mean concen-tration (mg/l)	Load (tons/day)	Mean concen-tration (mg/l)	Load (tons/day)	Mean concen-tration (mg/l)	Load (tons/day)	Mean concen-tration (mg/l)	Load (tons/day)	Mean concen-tration (mg/l)	Load (tons/day)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	138	7,870	124	8,120	400	36,400	125	9,990	105	7,570	112	8,100
2	132	7,340	157	11,500	435	44,100	132	10,700	103	7,460	113	8,310
3	140	7,740	165	12,600	371	36,300	190	16,400	132	9,560	143	10,700
4	149	8,520	149	11,300	333	31,600	181	15,400	164	12,000	152	11,500
5	159	9,070	146	11,000	308	30,900	185	15,900	140	10,200	164	12,500
6	163	9,390	145	11,000	347	35,500	150	12,800	156	11,500	144	11,000
7	167	10,100	145	10,900	211	21,000	163	14,300	186	14,100	105	7,870
8	170	10,600	149	11,300	177	17,300	184	16,400	183	14,000	98	7,360
9	168	10,400	168	13,900	164	15,700	198	18,200	158	12,000	103	7,960
10	166	10,300	148	12,200	168	15,800	186	16,800	131	9,860	127	9,820
11	163	10,400	141	11,200	249	23,500	170	14,800	146	11,000	125	9,740
12	161	10,300	171	14,100	272	25,300	156	13,200	168	12,500	124	9,700
13	156	9,920	185	14,900	229	21,100	153	12,800	182	13,500	124	9,700
14	142	8,950	154	11,500	224	21,000	150	12,400	143	10,500	168	14,500
15	127	8,040	167	13,700	191	17,800	173	14,200	123	8,940	151	13,600
16	114	7,340	152	11,800	172	16,200	168	13,300	119	8,680	153	13,900
17	114	7,340	135	9,950	193	17,900	182	14,200	106	7,680	121	10,300
18	117	7,660	158	13,000	196	18,100	202	15,500	119	8,770	115	9,130
19	124	8,380	147	11,300	308	29,800	209	16,000	114	8,310	109	8,100
20	121	8,060	137	9,870	298	28,700	160	12,200	90	6,500	102	7,280
21	120	8,260	227	19,500	259	24,000	143	10,900	85	6,080	81	5,630
22	117	8,020	460	42,400	245	21,700	124	9,450	83	5,970	63	4,140
23	113	7,800	392	34,300	234	20,200	139	10,400	94	6,810	75	5,020
24	110	7,510	554	53,700	224	18,900	140	10,300	100	7,340	63	4,220
25	106	7,230	517	48,000	211	17,600	136	10,000	92	6,760	69	4,600
26	102	6,820	543	45,000	190	15,500	133	9,820	84	6,100	85	5,670
27	101	6,370	598	54,600	168	13,600	136	10,000	76	5,490	96	6,210
28	101	5,960	394	33,600	148	11,900	140	10,300	73	5,290	82	5,160
29	106	6,480	261	20,500	138	11,000	146	10,700	70	5,070	72	4,510
30	111	6,850	408	39,600	130	10,400	130	9,480	71	5,160	65	4,030
31	---	---	473	46,000	---	---	113	8,160	92	6,640	---	---
TOTAL	---	249,020	---	672,340	---	668,800	---	395,000	---	271,340	---	250,260

YEAR 4,347,860

06486000 MISSOURI RIVER AT SIOUX CITY, IA—Continued



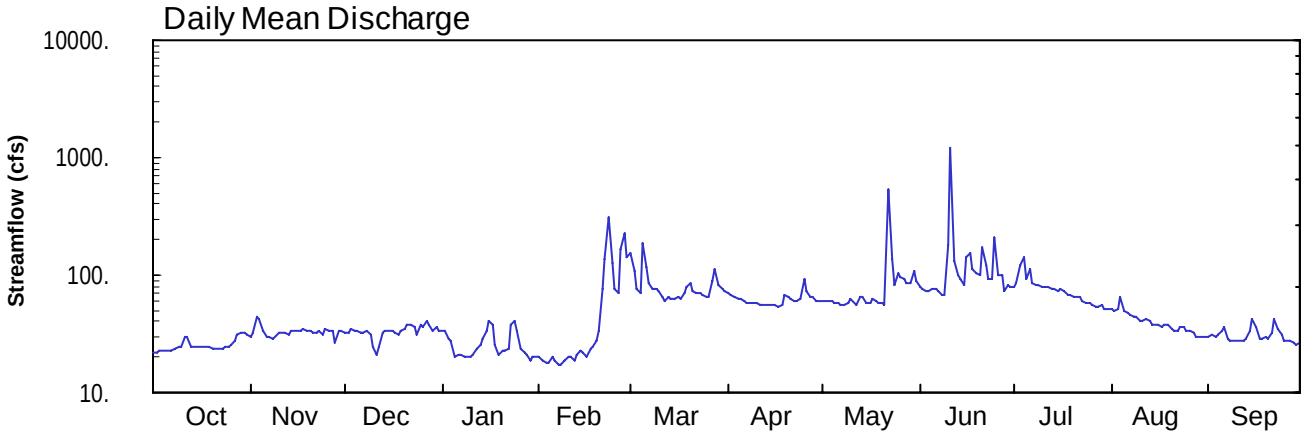
2004 Water Year

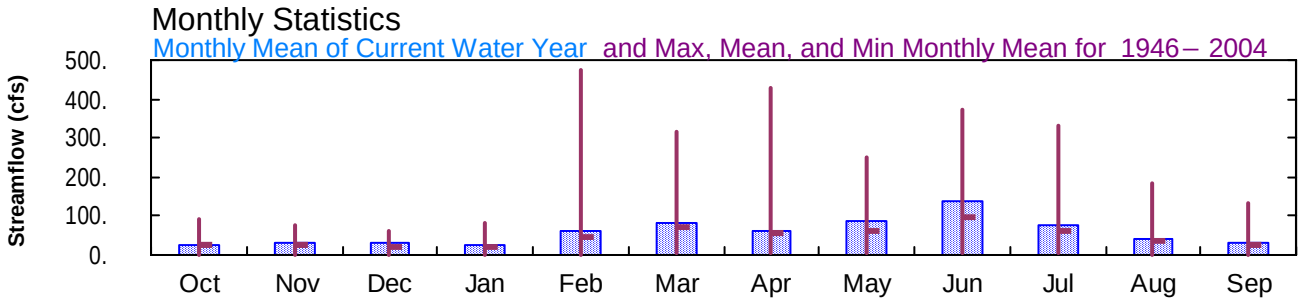
OMAHA CREEK BASIN

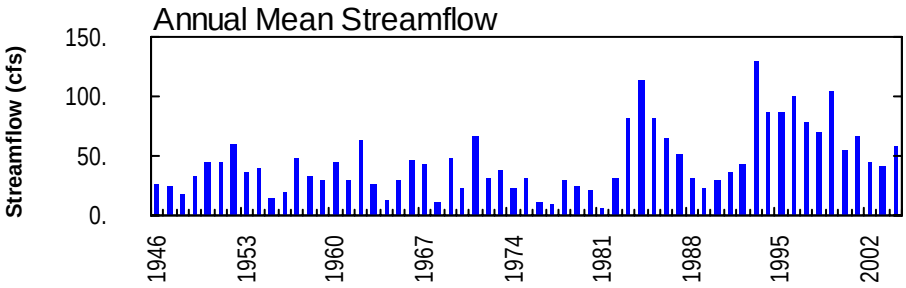
06601000 OMAHA CR AT HOMER, NEBR

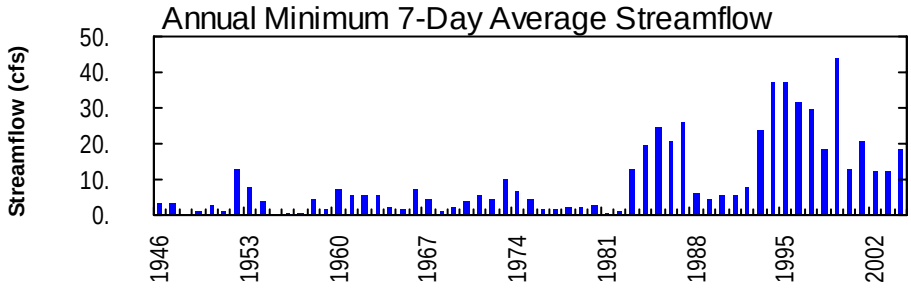
Latitude: 42° 19 ' 17" Longitude: 096° 29 ' 15" Hydrologic Unit Code: 10230001

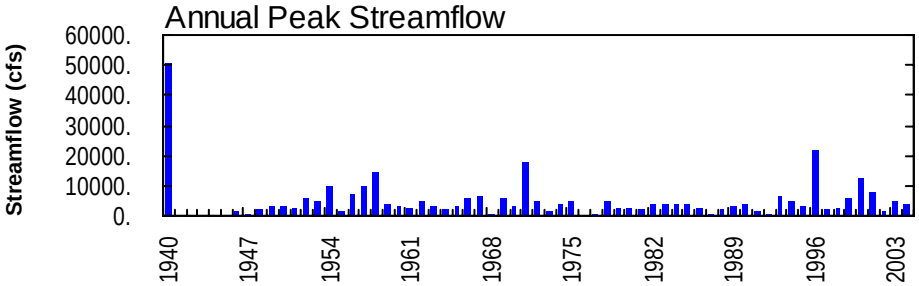
Dakota County Datum: 1080.45 feet Drainage Area: 174. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06601000 OMAHA CREEK AT HOMER, NE

LOCATION—Lat 42°19'29", long 96°29'43", in SW 1/4 SE 1/4 sec.11, T.27 N., R.8 E., Dakota County, Hydrologic Unit 10230001, on left bank 80 ft downstream from bridge on main street of Homer and at mile 4.7.

DRAINAGE AREA—174 mi^2.

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

REVISED RECORDS—WDR NE-75-1: 1971-73. WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,080.45 ft above sea level. Prior to Aug. 4, 1952, at bridge 0.5 mi downstream at datum 6.03 ft lower. Aug. 4, 1952 to Nov. 3, 1966 at site 80 ft upstream at datum 2.0 ft higher. Nov. 4, 1966 to Sept. 30, 1989 at present site at datum 2.0 ft higher. June 27, 1984 to Aug. 28, 1984 at temporary site 700 ft downstream at present datum. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

06601000 OMAHA CREEK AT HOMER, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	30	32	34	e20	155	71	61	80	78	51	30
2	22	32	32	33	e19	107	67	61	76	86	50	31
3	23	44	35	29	e18	75	64	61	74	122	51	30
4	23	43	34	28	e18	70	62	60	73	140	65	31
5	23	34	33	e20	e20	190	62	58	76	92	50	33
6	23	30	32	e21	e19	116	61	57	76	112	47	36
7	23	30	32	e21	e17	84	59	55	72	86	45	29
8	24	29	33	e20	e17	76	58	56	69	83	44	28
9	25	30	31	e20	e19	75	57	57	67	82	44	28
10	25	32	25	e20	e20	72	57	63	178	80	40	28
11	30	32	e21	e21	e20	66	56	59	1230	79	41	28
12	30	32	e25	e24	e19	61	56	56	131	79	42	28
13	25	31	32	e26	e21	65	56	64	100	76	41	29
14	25	33	34	e29	e23	63	56	64	93	75	38	34
15	25	34	34	33	e22	62	55	58	81	72	37	42
16	25	34	33	40	e20	66	55	59	142	76	37	36
17	25	34	e32	38	e24	63	53	62	156	72	36	29
18	25	35	e31	26	e25	71	55	61	112	68	38	29
19	25	33	e33	e21	e28	80	67	58	105	68	37	30
20	24	33	35	e23	e33	87	64	59	100	65	35	29
21	24	32	37	e23	76	73	63	56	171	65	34	32
22	24	32	37	e24	136	71	60	546	120	64	33	43
23	24	33	36	38	315	70	60	139	94	60	36	35
24	25	31	31	41	126	68	63	81	91	59	36	31
25	25	35	37	34	75	66	93	106	207	59	33	28
26	26	34	36	e24	71	65	73	97	101	55	34	28
27	28	33	40	e22	164	89	65	92	100	54	32	28
28	31	27	37	e21	224	113	64	86	73	53	30	27
29	32	33	33	e19	142	81	61	84	81	55	30	26
30	32	34	36	e20	---	76	61	110	78	52	30	27
31	31	---	33	e20	---	73	---	90	---	51	30	---
TOTAL	794	989	1022	813	1751	2549	1854	2676	4207	2318	1227	923
MEAN	25.6	33.0	33.0	26.2	60.4	82.2	61.8	86.3	140	74.8	39.6	30.8
MAX	32	44	40	41	315	190	93	546	1230	140	65	43
MIN	22	27	21	19	17	61	53	55	67	51	30	26
AC-FT	1570	1960	2030	1610	3470	5060	3680	5310	8340	4600	2430	1830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY)

MEAN	23.9	23.2	19.5	19.4	48.0	73.4	57.4	60.9	96.2	60.1	34.2	27.0
MAX	89.6	75.2	62.4	82.0	472	315	426	248	370	331	181	131
(WY)	1994	1994	1995	1973	1971	1993	1985	1984	1999	1996	1993	1993
MIN	1.17	2.36	2.46	1.99	1.49	6.33	4.14	4.04	7.60	4.34	2.55	0.75
(WY)	1957	1956	1977	1957	1956	1956	1956	1981	1981	1976	1968	1948

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1946 - 2004	
ANNUAL TOTAL	15902.8		21123			
ANNUAL MEAN	43.6		57.7		45.2	
HIGHEST ANNUAL MEAN					130	1993
LOWEST ANNUAL MEAN					6.20	1981
HIGHEST DAILY MEAN	1300	Jul 6	1230	Jun 11	6840	Feb 18 1971
LOWEST DAILY MEAN	9.8	Jan 9	17	Feb 7	0.10	Sep 16 1948
ANNUAL SEVEN-DAY MINIMUM	12	Jan 4	18	Feb 2	0.16	Sep 8 1955
MAXIMUM PEAK FLOW			*3970	Jun 11	**21500	Jul 17 1996
MAXIMUM PEAK STAGE			8.87	Jun 11	***28.47	Feb 19 1971
ANNUAL RUNOFF (AC-FT)	31540		41900		32730	
10 PERCENT EXCEEDS	56		92		82	
50 PERCENT EXCEEDS	32		38		20	
90 PERCENT EXCEEDS	18		23		4.6	

e Estimated
* From rating curve extended above 1100 ft^3/s
** Stage 22.30 ft, from floodmark, discharge from rating curve extension based on slope area measurements at 16.38 ft and 23.62 ft
*** Discharge 18100 ft^3/s

06601200 MISSOURI RIVER AT DECATUR, NE

LOCATION—Lat 42°00'26", long 96°14'29", in NE$^1/_4$ SW$^1/_4$ sec.36, T.24 N., R.10 E., Burt County, Hydrologic Unit 10230001, on right bank 0.1 mi upstream from Iowa Highway 175 bridge at Decatur, and at mile 691.0.

DRAINAGE AREA—316,200 mi^2, approximately. The 3,959 mi^2 in Great Divide basin are not included.

PERIOD OF RECORD—October 1987 to current year.

GAGE—Water-stage recorder. Datum of gage is 1,010.00 ft above NGVD of 1929, supplementary adjustment of 1954.

REMARKS—Records good except those for estimated daily discharges, which are poor. Flow regulated by upstream main-stem reservoirs. Fort Randall Dam was completed in July 1952, with storage beginning in December 1952. Gavins Point Dam was completed in July 1955, with storage beginning in December 1955. U.S. Army Corps of Engineers rain gage and satellite data collection platform at station.

COOPERATION—Records provided by U.S. Geological Survey, Iowa Water Science Center.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28,300	29,200	14,800	16,000	16,500	17,600	22,900	25,100	34,800	30,100	27,200	27,100
2	28,600	29,900	14,700	16,100	17,400	20,200	22,300	27,000	35,700	30,400	27,200	27,200
3	28,700	30,600	14,700	16,200	18,100	20,200	22,000	29,300	39,000	32,200	27,400	27,800
4	28,800	30,800	14,700	15,800	17,700	20,900	22,100	29,300	36,500	33,800	27,500	28,000
5	28,700	30,500	14,600	15,100	16,400	21,200	22,500	29,000	37,200	33,100	27,700	28,400
6	28,800	30,100	14,400	14,300	16,400	20,900	22,400	29,000	39,800	32,900	27,500	28,900
7	28,800	29,800	14,200	14,300	17,100	18,300	22,800	28,700	38,700	33,600	28,000	28,400
8	28,700	29,500	14,300	14,900	16,200	17,300	23,900	28,500	37,600	34,300	28,600	28,300
9	29,200	29,600	14,400	16,200	15,700	16,000	24,000	29,500	37,000	34,900	28,400	28,400
10	29,800	29,700	14,700	16,300	16,700	e15,500	23,900	31,200	36,600	35,200	28,200	29,100
11	30,000	29,800	13,900	16,500	16,900	14,200	24,300	30,100	37,700	33,800	28,000	29,000
12	30,400	29,900	14,100	16,700	16,400	13,700	24,600	29,400	36,500	33,000	28,000	29,200
13	29,900	29,900	15,400	17,300	15,800	13,100	24,600	31,100	35,400	32,200	27,900	29,100
14	29,700	29,600	16,200	16,900	15,300	13,300	24,500	28,700	35,800	31,800	27,700	30,000
15	29,800	29,600	16,600	16,200	16,100	14,100	24,400	28,700	36,100	31,600	27,500	32,200
16	29,100	29,800	16,800	15,600	15,500	14,200	24,800	30,700	36,500	31,100	27,400	34,400
17	28,900	29,800	16,400	15,200	14,800	14,000	24,900	27,800	38,200	30,100	27,500	32,300
18	28,800	29,900	16,500	15,500	14,900	13,600	24,900	28,500	35,700	29,600	27,400	30,600
19	28,800	28,000	17,000	15,800	14,900	13,700	25,600	30,900	36,800	29,300	27,800	29,200
20	29,100	24,900	16,000	15,600	15,000	14,200	25,600	27,500	35,900	29,100	27,200	28,000
21	29,100	22,600	15,300	16,100	14,400	16,500	25,900	28,600	34,800	28,700	27,000	27,400
22	29,100	20,500	14,900	16,700	14,400	19,200	26,200	37,700	34,000	28,800	26,900	26,900
23	29,100	18,000	14,500	16,600	15,000	20,700	26,200	36,700	33,100	28,400	26,700	26,400
24	29,100	16,100	14,400	18,400	14,500	21,500	26,400	36,800	32,000	27,900	27,000	26,700
25	29,100	14,900	14,300	18,200	13,800	21,600	26,500	38,900	31,500	27,800	27,100	26,600
26	29,000	14,700	14,300	17,100	13,400	22,800	26,200	33,600	30,800	27,700	27,100	26,600
27	29,100	14,700	15,000	17,600	13,500	24,000	25,500	33,400	30,300	27,600	27,100	26,400
28	29,300	14,800	16,200	14,000	14,700	24,900	24,200	34,900	30,000	27,600	27,100	25,600
29	29,300	14,600	16,400	14,400	15,900	25,200	24,100	30,100	30,000	27,800	27,200	25,200
30	29,000	14,700	16,100	15,900	---	25,000	24,600	31,700	29,900	27,700	27,100	24,900
31	29,300	---	16,000	16,800	---	24,100	---	38,400	---	27,400	27,000	---
TOTAL	903,400	756,500	471,800	498,300	453,400	571,700	732,800	960,800	1,053,900	949,500	851,400	848,300
MEAN	29,140	25,220	15,220	16,070	15,630	18,440	24,430	30,990	35,130	30,630	27,460	28,280
MAX	30,400	30,800	17,000	18,400	18,100	25,200	26,500	38,900	39,800	35,200	28,600	34,400
MIN	28,300	14,600	13,900	14,000	13,400	13,100	22,000	25,100	29,900	27,400	26,700	24,900
AC-FT	1,792,000	1,501,000	935,800	988,400	899,300	1,134,000	1,454,000	1,906,000	2,090,000	1,883,000	1,689,000	1,683,000
CFSM	0.09	0.08	0.05	0.05	0.05	0.06	0.08	0.10	0.11	0.10	0.09	0.09
IN.	0.11	0.09	0.06	0.06	0.05	0.07	0.09	0.11	0.12	0.11	0.10	0.10

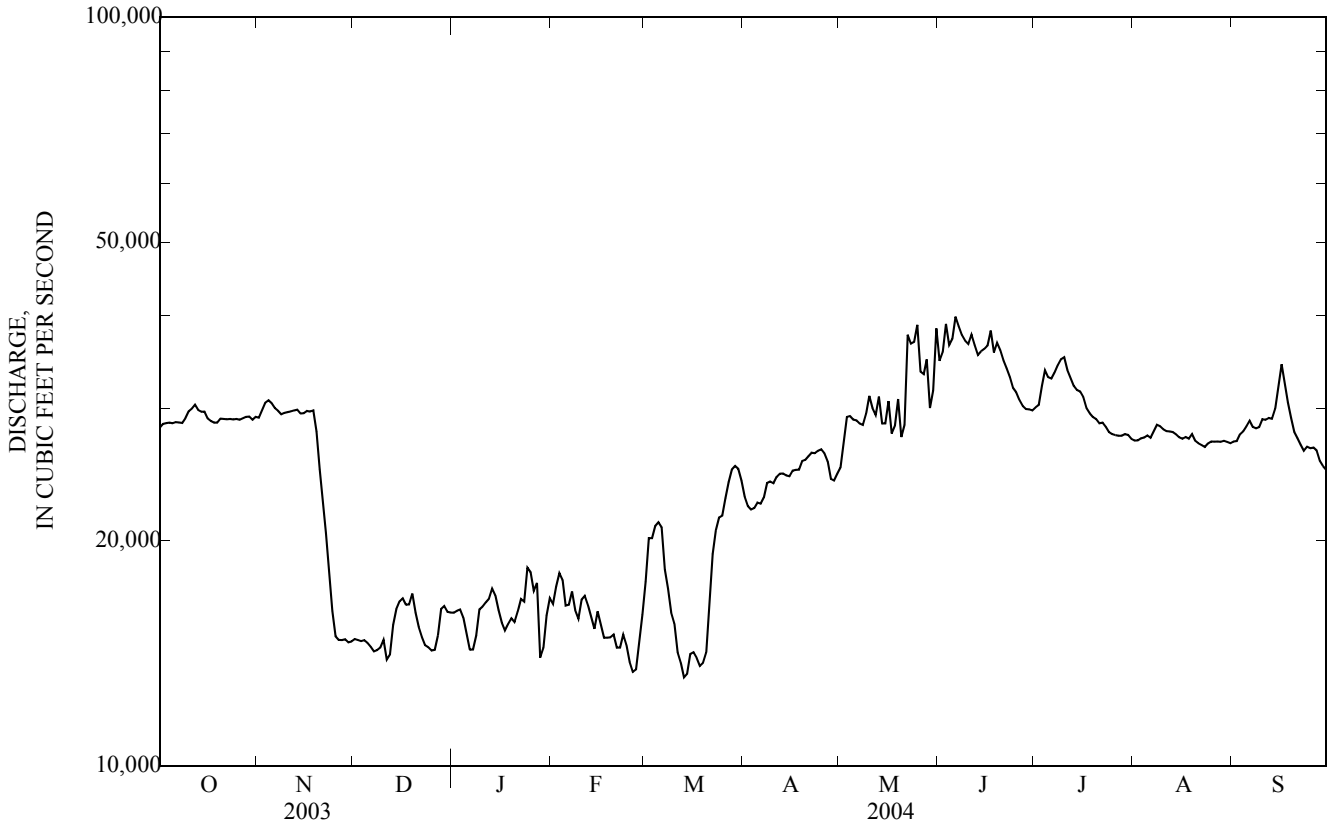
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)

MEAN	37,060	32,370	21,170	18,650	19,690	24,620	35,270	36,850	37,700	37,510	35,530	37,160
MAX	70,150	72,350	41,350	26,850	32,380	49,450	90,050	80,690	67,970	66,520	66,170	67,290
(WY)	(1998)	(1998)	(1998)	(1998)	(1997)	(1997)	(1997)	(1997)	(1997)	(1997)	(1997)	(1997)
MIN	24,250	10,470	12,070	12,360	12,210	11,580	24,410	26,080	27,010	26,620	25,680	26,750
(WY)	(1993)	(1991)	(1991)	(1990)	(1991)	(1991)	(1991)	(2002)	(2002)	(2002)	(2003)	(1993)

06601200 MISSOURI RIVER AT DECATUR, NE—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1988 - 2004	
ANNUAL TOTAL	8,865,300		9,051,800			
ANNUAL MEAN	24,290		24,730		31,170	
HIGHEST ANNUAL MEAN					57,440	1997
LOWEST ANNUAL MEAN					21,450	1991
HIGHEST DAILY MEAN	36,500	Sep 12	39,800	Jun 6	99,900	Apr 15, 1997
LOWEST DAILY MEAN	10,900	Feb 26	13,100	Mar 13	7,130	Dec 22, 1990
ANNUAL SEVEN-DAY MINIMUM	13,900	Mar 5	13,700	Mar 12	9,660	Dec 12, 1990
MAXIMUM PEAK FLOW			42,700	May 23	100,000	Apr 15, 1997
MAXIMUM PEAK STAGE			25.01	Jun 3	32.31	Jul 18, 1996
INSTANTANEOUS LOW FLOW			12,800	Jan 28		
ANNUAL RUNOFF (AC-FT)	17,580,000		17,950,000		22,580,000	
ANNUAL RUNOFF (CFSM)	0.077		0.078		0.099	
ANNUAL RUNOFF (INCHES)	1.04		1.06		1.34	
10 PERCENT EXCEEDS	30,500		33,500		50,000	
50 PERCENT EXCEEDS	27,000		27,100		29,500	
90 PERCENT EXCEEDS	14,700		14,700		14,800	

a Also March 14.
e Estimated.



06610000 MISSOURI RIVER AT OMAHA, NE
(National stream-quality accounting network station)

LOCATION.--Lat 41°15'32", long 95°55'20", in SE¼ NW¼ sec.23, T.15 N., R.13 E., Douglas County, Hydrologic Unit 10230006, on right bank on left side of concrete floodwall, at foot of Douglas Street, 275 ft downstream from Interstate 480 Highway bridge in Omaha, and at mile 615.9.

DRAINAGE AREA.--322,800 mi^2, approximately. The 3,959 mi^2 in Great Divide basin are not included.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 761: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 948.24 ft above NGVD of 1929. See WSP 1730 for history of changes prior to Sept. 30, 1936. Oct. 1, 1936 to Sept. 30, 1982 at datum 10.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by upstream main-stem reservoirs. Fort Randall Dam was completed in July 1952, with storage beginning in December 1952. Gavins Point Dam was completed in July 1955, with storage beginning in December 1955. U.S. Army Corps of Engineers rain gage and satellite data collection platform at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 396,000 ft^3/s Apr. 18, 1952, gage height, 40.20 ft, present datum; minimum, about 2,200 ft^3/s Jan. 6, 1937; minimum gage height, 6.85 ft, present datum, Feb. 5, 1989, result of freeze-up.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28,800	30,100	15,300	16,900	16,800	24,100	26,100	25,900	42,200	34,200	30,100	28,000
2	28,800	30,200	15,300	17,000	16,900	25,600	24,800	26,100	39,200	34,300	30,000	28,100
3	29,100	31,500	15,400	17,000	17,500	26,300	24,000	27,800	40,000	35,200	30,800	28,100
4	29,100	32,400	15,300	16,800	18,400	24,500	23,700	29,800	42,100	40,200	32,700	28,500
5	29,200	32,300	15,300	16,200	18,300	25,100	23,700	30,200	39,200	41,600	31,100	29,100
6	29,200	31,900	15,100	15,500	17,100	26,900	23,800	30,000	39,400	38,500	30,600	29,400
7	29,100	31,300	14,900	15,000	16,800	27,900	23,700	30,000	40,900	37,500	30,200	29,700
8	29,100	31,000	14,800	14,500	17,400	23,700	24,000	30,100	39,200	37,800	30,600	29,200
9	29,100	30,700	15,000	15,100	16,600	21,500	25,000	30,400	38,300	40,000	31,200	29,000
10	29,500	30,800	14,800	16,200	16,100	19,400	25,200	31,900	37,700	40,000	30,900	28,900
11	30,300	31,000	15,000	17,000	16,900	17,900	24,900	34,000	38,300	38,900	30,500	29,400
12	30,600	31,000	14,500	17,100	17,200	17,000	25,300	32,500	42,000	37,000	30,400	29,400
13	31,000	31,000	14,600	17,300	16,800	16,300	25,600	31,900	42,200	36,200	30,200	29,400
14	30,800	31,200	15,800	17,700	16,200	15,400	25,500	32,900	38,600	34,700	29,900	29,200
15	30,300	30,800	16,800	17,600	15,700	15,500	25,200	30,600	38,900	34,300	29,500	30,500
16	30,200	30,800	17,400	17,000	16,500	16,200	25,300	30,400	38,300	35,700	29,100	33,700
17	29,700	31,200	17,800	16,500	16,100	16,100	25,700	31,900	41,700	33,500	28,700	39,000
18	29,300	31,300	17,900	16,000	15,500	15,900	25,800	29,700	51,300	32,700	28,900	40,400
19	29,300	31,200	17,800	16,100	15,600	15,500	25,800	30,200	44,200	32,700	28,700	37,900
20	29,200	29,500	18,300	16,400	15,700	15,500	26,600	32,100	43,900	32,400	29,100	35,500
21	29,500	26,400	17,500	16,200	15,800	15,800	26,800	29,200	44,100	32,300	28,600	35,700
22	29,600	23,900	16,700	16,600	15,600	17,300	27,300	31,000	44,400	32,700	28,200	35,600
23	29,700	21,700	16,300	17,200	16,600	19,700	27,700	46,600	41,500	31,600	28,100	35,500
24	29,800	19,000	15,800	17,300	18,300	21,200	27,800	51,600	39,400	31,000	28,300	35,900
25	29,800	17,000	15,600	18,700	17,300	22,000	28,100	50,300	38,300	30,600	29,100	37,400
26	29,900	15,900	15,500	19,100	15,800	22,000	28,900	48,700	37,700	30,400	28,800	37,400
27	30,100	15,600	15,500	17,900	15,200	24,000	28,600	39,500	36,900	30,300	28,500	36,000
28	30,200	15,400	16,100	17,700	16,900	26,200	27,500	37,900	35,800	30,200	28,300	34,000
29	30,200	15,300	17,200	15,500	20,800	28,500	26,100	38,500	35,400	30,400	28,200	32,700
30	30,100	15,200	17,400	14,600	---	27,900	25,700	34,700	34,900	30,600	28,100	32,000
31	29,900	---	17,100	16,000	---	27,100	---	37,500	---	30,400	28,100	---
TOTAL	920,500	806,600	497,800	515,700	486,400	658,000	774,200	1,053,900	1,206,000	1,067,900	915,500	974,600
MEAN	29,690	26,890	16,060	16,640	16,770	21,230	25,810	34,000	40,200	34,450	29,530	32,490
MAX	31,000	32,400	18,300	19,100	20,800	28,500	28,900	51,600	51,300	41,600	32,700	40,400
MIN	28,800	15,200	14,500	14,500	15,200	15,400	23,700	25,900	34,900	30,200	28,100	28,000
AC-FT	1,826,000	1,600,000	987,400	1,023,000	964,800	1,305,000	1,536,000	2,090,000	2,392,000	2,118,000	1,816,000	1,933,000
CFSM	0.09	0.08	0.05	0.05	0.05	0.07	0.08	0.11	0.12	0.11	0.09	0.10
IN.	0.11	0.09	0.06	0.06	0.06	0.08	0.09	0.12	0.14	0.12	0.11	0.11

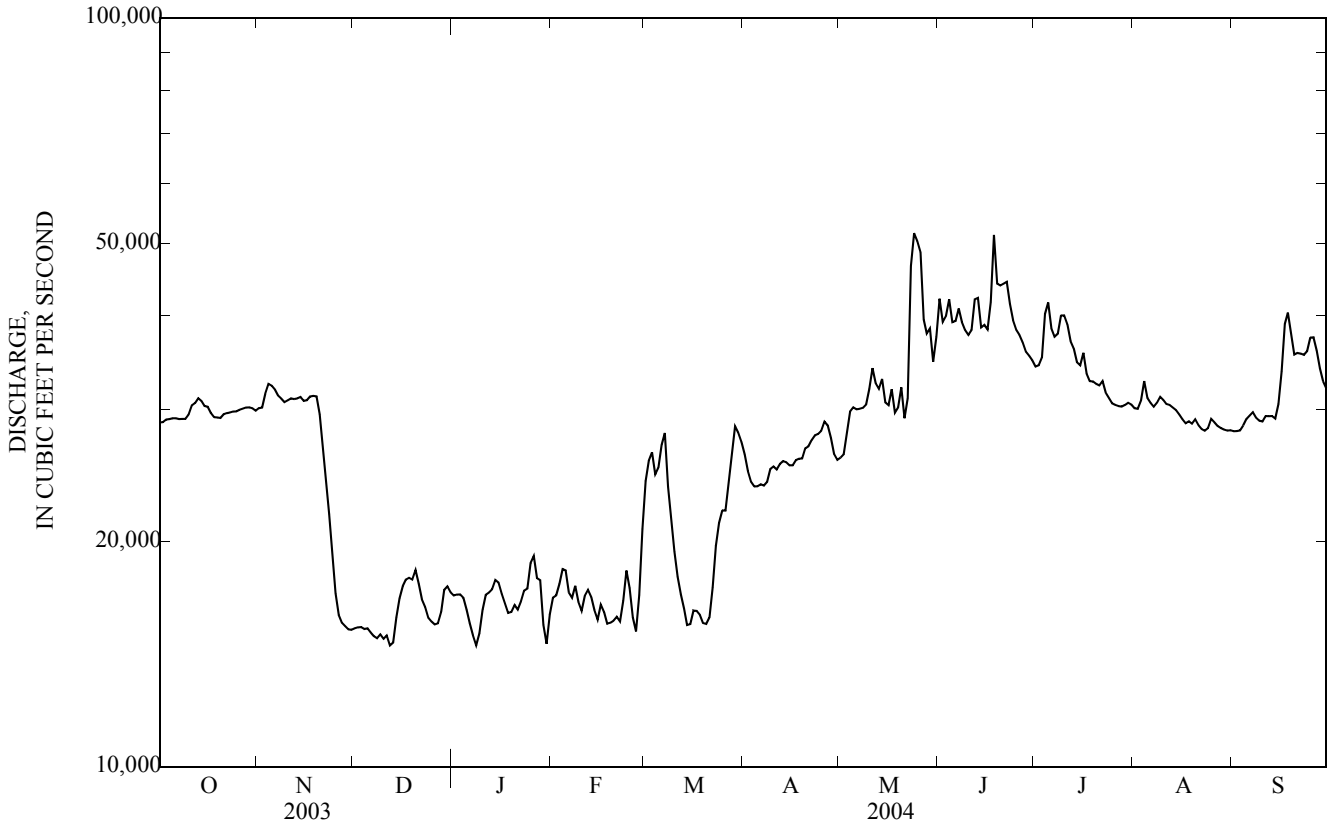
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

MEAN	38,240	33,960	20,900	17,720	19,710	27,730	38,400	38,460	41,670	40,210	38,580	38,670
MAX	74,070	75,040	44,260	33,250	40,410	54,660	93,840	87,620	76,120	78,560	68,890	69,770
(WY)	(1998)	(1998)	(1998)	(1987)	(1997)	(1997)	(1997)	(1997)	(1997)	(1993)	(1997)	(1997)
MIN	16,920	8,324	8,296	8,425	8,162	10,170	16,480	26,450	26,890	27,150	26,780	28,290
(WY)	(1962)	(1962)	(1962)	(1964)	(1963)	(1957)	(1957)	(1961)	(1961)	(1958)	(2003)	(1958)

06610000 MISSOURI RIVER AT OMAHA, NE—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004	
ANNUAL TOTAL	9,556,400		9,877,100			
ANNUAL MEAN	26,180		26,990		32,890	
HIGHEST ANNUAL MEAN					62,150	1997
LOWEST ANNUAL MEAN					20,490	1957
HIGHEST DAILY MEAN	54,500	Jul 11	51,600	May 24	116,000	Apr 4, 1960
LOWEST DAILY MEAN	12,700	Mar 11	14,500	Dec 12	2,440	Dec 14, 1961
ANNUAL SEVEN-DAY MINIMUM	14,200	Mar 6	14,800	Dec 7	4,300	Nov 28, 1955
MAXIMUM PEAK FLOW			53,400	Jun 18	120,000	Apr 1, 1960
MAXIMUM PEAK STAGE			22.57	Jun 18	30.26	Jul 10, 1993
INSTANTANEOUS LOW FLOW			14,100	Jan 29		
ANNUAL RUNOFF (AC-FT)	18,960,000		19,590,000		23,830,000	
ANNUAL RUNOFF (CFSM)	0.081		0.084		0.102	
ANNUAL RUNOFF (INCHES)	1.10		1.14		1.38	
10 PERCENT EXCEEDS	34,400		38,300		52,100	
50 PERCENT EXCEEDS	28,700		28,900		32,200	
90 PERCENT EXCEEDS	15,400		15,800		14,300	

a Post regulation.
b Also Jan. 8.
c Also Jan. 30.



06674500 NORTH PLATTE RIVER AT WYOMING-NEBRASKA STATE LINE

LOCATION—Lat 41°59'19", long 104°03'10", in SE¼ SE¼ SE¼ sec.3, T.23 N., R.60 W., Goshen County, Hydrologic Unit 10180009, on right bank 2000 ft upstream from bridge on NE State Highway 86, 250 ft upstream from Wyoming-Nebraska State line, and 0.7 mi southeast of Henry, NE.

DRAINAGE AREA—22,218 mi^2, of which 1,929 mi^2 probably is non-contributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD—April 1929 to current year.

REVISED RECORDS—WDR WY-76-1: Drainage area.

GAGE—Water-stage recorder. Sheet-piling control since March 9, 1994. Datum of gage is 4,025 ft above NGVD of 1929, from topographic map. Prior to November 6, 1929, non-recording gage and November 6, 1929 to September 30, 1959, water-stage recorder at site 0.2 mi upstream at different datum. October 7, 1959 to February 22, 1972 water-stage recorder at site 0.2 mi upstream at different datum. February 22, 1972 to March 9, 1994, water-stage recorder at site 0.3 mi downstream at different datum. U.S. Army Corps of Engineers data collection platform with satellite telemetry at station.

REMARKS—Records good except those for estimated daily discharges, which are poor. 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 0.5 mi upstream.

COOPERATION—Seven discharge measurements provided by Wyoming State Engineer's Office. Records provided by U.S. Geological Survey, Wyoming Water Science Center.

EXTREMES FOR CURRENT YEAR—Maximum discharge, 1,800 ft^3/s, July 24, gage height, 3.47 ft; minimum discharge, 0.00 ft^3/s, on many days, gage height, 1.03 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	329	186	152	130	124	e100	104	0.00	0.00	5.5	1,260	345
2	309	191	151	131	123	110	105	0.00	0.00	5.4	1,310	314
3	289	195	150	133	123	111	108	0.00	0.00	130	1,380	263
4	274	194	150	e125	124	111	111	0.00	0.00	446	1,380	212
5	261	196	151	e100	127	112	112	0.00	0.00	728	1,330	272
6	254	189	151	e70	126	113	115	0.00	0.55	1,010	1,320	243
7	244	187	152	e100	122	111	115	0.00	13	1,150	1,340	174
8	234	187	154	e170	121	113	115	0.00	22	1,270	1,350	148
9	228	187	153	e150	120	118	117	0.00	18	1,360	1,360	131
10	224	188	154	142	119	118	118	0.00	47	1,310	1,300	108
11	219	187	149	136	119	115	118	0.00	48	1,350	1,220	98
12	212	180	148	133	115	115	118	0.00	32	1,350	1,170	88
13	210	178	e145	130	120	115	117	0.00	24	1,390	1,180	79
14	206	178	147	129	117	114	115	0.00	21	1,510	1,230	74
15	205	176	150	128	118	114	115	0.00	25	1,500	1,240	68
16	202	176	145	128	117	118	99	0.00	7.6	1,450	1,240	62
17	199	176	144	127	117	111	103	0.00	0.00	1,350	1,230	58
18	194	175	143	126	116	111	109	0.00	0.00	1,190	1,230	52
19	189	167	142	126	117	110	39	0.00	24	1,190	1,230	44
20	187	166	141	126	116	109	8.1	0.00	81	1,260	975	42
21	187	165	140	124	115	108	6.7	0.00	138	1,360	727	61
22	187	e165	140	122	115	108	6.3	0.00	150	1,550	592	63
23	187	e160	139	123	115	108	5.3	0.00	115	1,650	549	69
24	187	160	136	122	115	108	4.7	0.00	92	1,740	516	63
25	187	160	135	122	115	108	4.6	0.00	67	1,690	516	52
26	187	160	135	e110	115	107	3.9	0.00	54	1,560	495	47
27	187	156	136	e115	113	109	3.4	0.00	56	1,490	490	44
28	186	154	e135	123	111	109	1.8	0.00	25	1,380	456	69
29	185	156	e125	120	e105	108	1.1	0.00	7.6	1,360	430	91
30	185	154	130	122	---	106	0.00	0.00	6.4	1,330	393	181
31	186	---	131	122	---	105	---	0.00	---	1,290	368	---
TOTAL	6,720	5,249	4,454	3,865	3,420	3,433	2,098.90	0.00	1,074.15	37,354.9	30,807	3,615
MEAN	217	175	144	125	118	111	70.0	0.00	35.8	1,205	994	120
MAX	329	196	154	170	127	118	118	0.00	150	1,740	1,380	345
MIN	185	154	125	70	105	100	0.00	0.00	0.00	5.4	368	42
AC-FT	13,330	10,410	8,830	7,670	6,780	6,810	4,160	0.00	2,130	74,090	61,110	7,170

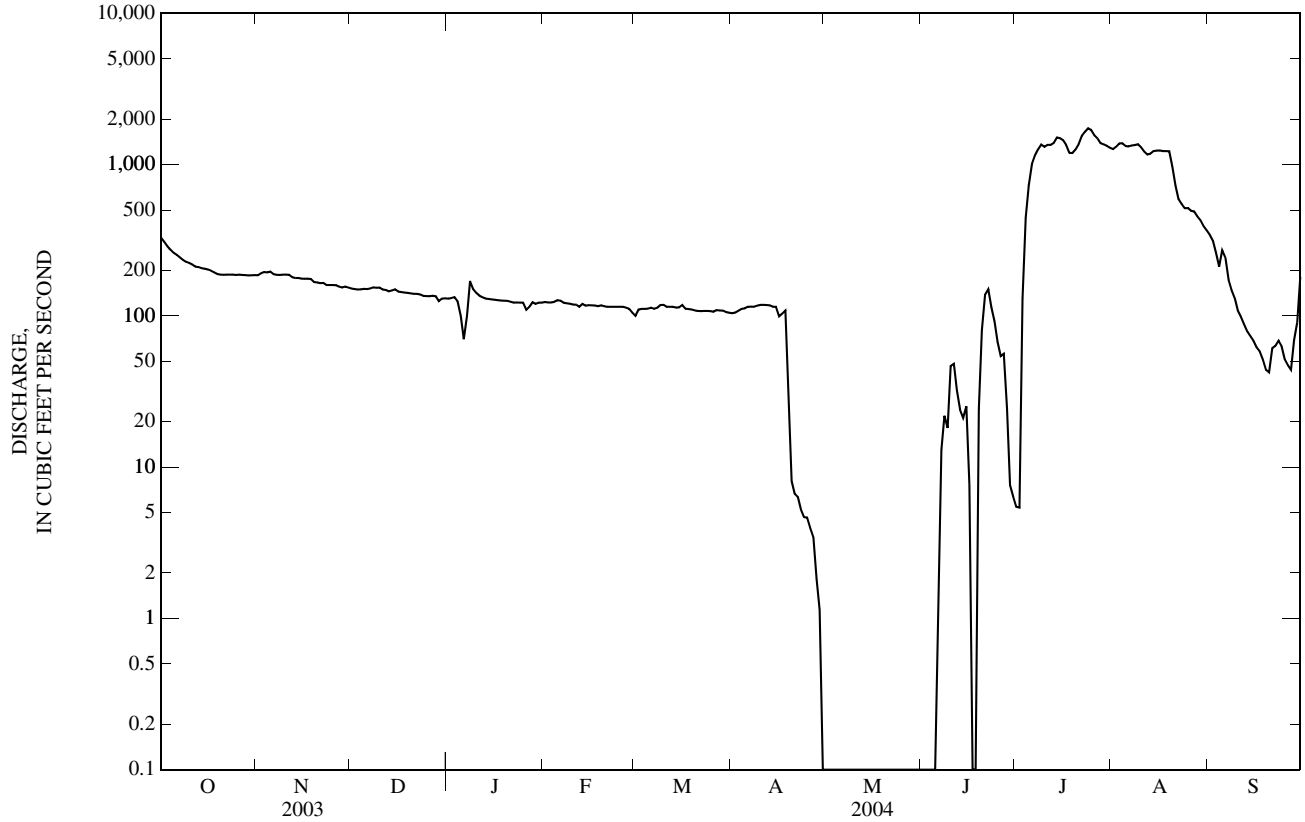
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2004, BY WATER YEAR (WY)

MEAN	494	412	364	322	326	490	639	1,146	1,630	1,541	1,253	837
MAX	1,666	1,454	895	751	1,063	4,202	4,407	7,226	10,360	7,170	5,751	4,766
(WY)	(1987)	(1987)	(1930)	(1930)	(1984)	(1974)	(1974)	(1971)	(1929)	(1983)	(1983)	(1983)
MIN	134	174	144	125	118	111	70.0	0.00	35.8	611	154	120
(WY)	(2003)	(1935)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(1934)	(1934)	(2004)

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

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1929 - 2004	
ANNUAL TOTAL	123,651.6		102,090.95			
ANNUAL MEAN	339		279		772	
HIGHEST ANNUAL MEAN					2,863	1984
LOWEST ANNUAL MEAN					279	2004
HIGHEST DAILY MEAN	2,130	Jul 19	1,740	Jul 24	17,600	Jun 2, 1929
LOWEST DAILY MEAN	3.8	Jun 4	0.00	Apr 30	0.00	May 14, 2002
ANNUAL SEVEN-DAY MINIMUM	4.3	May 30	0.00	Apr 30	0.00	May 14, 2002
MAXIMUM PEAK FLOW			1,800	Jul 24	17,900	Jun 2, 1929
MAXIMUM PEAK STAGE			3.47	Jul 24	7.04	Jun 2, 1929
ANNUAL RUNOFF (AC-FT)	245,300		202,500		559,500	
10 PERCENT EXCEEDS	1,290		1,230		1,420	
50 PERCENT EXCEEDS	145		124		469	
90 PERCENT EXCEEDS	13		0.00		194	

e Estimated



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

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)
OCT													
24...	0945	181	664	9.5	95	8.0	926	10.0	9.0	.06	2.30	.045	E.01
MAR													
10...	0845	117	655	8.4	83	8.2	983	3.0	8.0	.10	2.33	.046	E.01
JUN													
09...	1425	3.1	655	8.4	103	8.0	850	28.0	17.5	<.04	.63	.012	<.04
SEP													
13...	1015	84	642	8.7	108	8.1	902	24.0	17.0	E.03	2.01	.020	<.02

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
OCT		
24...	45	22
MAR		
10...	16	5.1
JUN		
09...	11	.09
SEP		
13...	8	1.8

Remark codes used in this table:
< -- Less than
E -- Estimated value

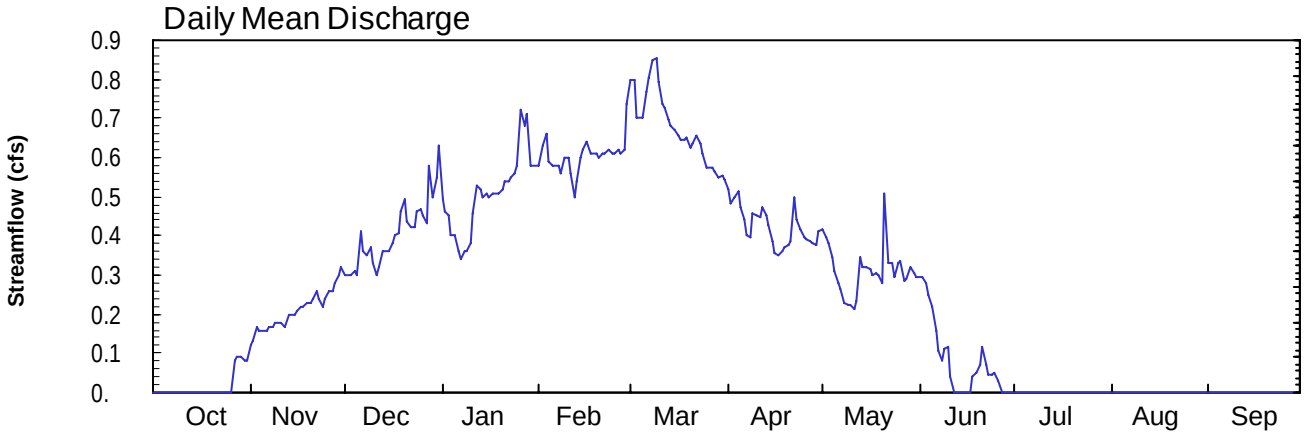
2004 Water Year

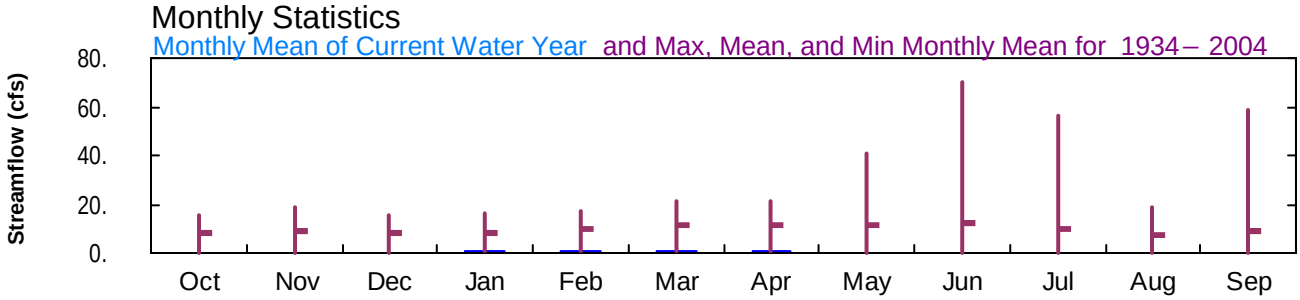
PLATTE RIVER BASIN

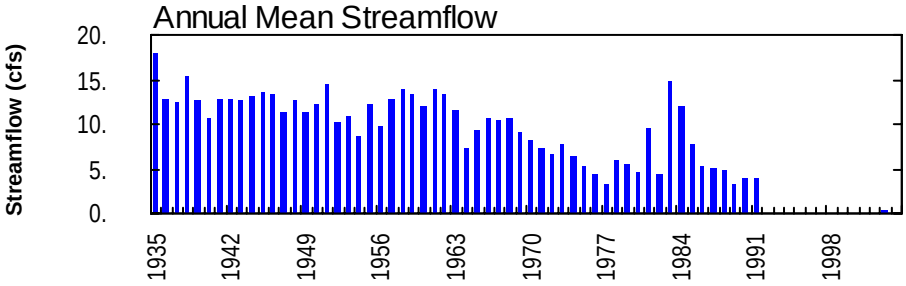
06762500 LODGEPOLE CREEK AT BUSHNELL, NEBR.

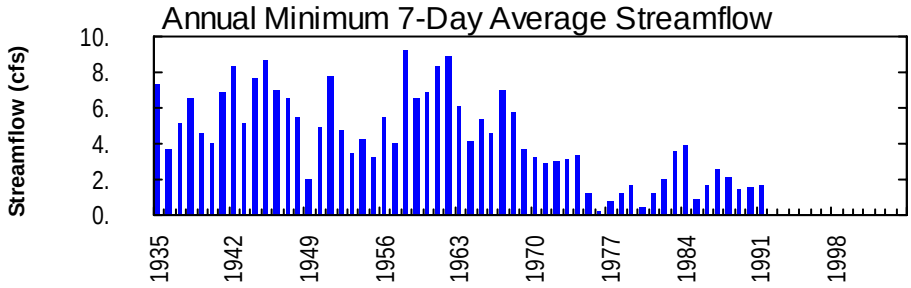
Latitude: 41° 13 ' 39" Longitude: 103° 53 ' 35" Hydrologic Unit Code: 10190016

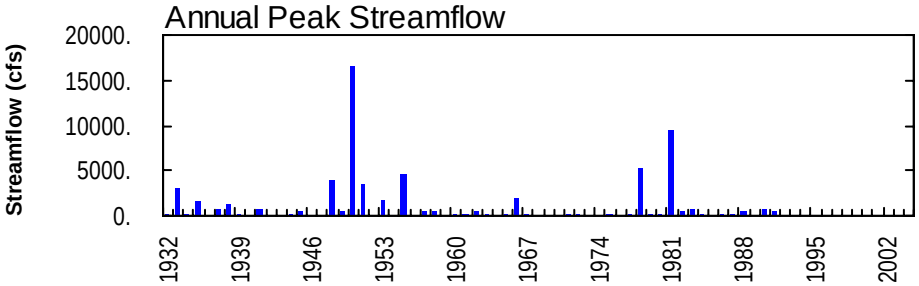
Kimball County Datum: 4845.31 feet Drainage Area: 1227. mi²











NO PHOTOS AVAILABLE FOR THIS SITE

06762500 LODGEPOLE CREEK AT BUSHNELL, NE

LOCATION—Lat 41°13' 50" long 103°53' 28", in SE1/4 NE1/4 sec. 31, T.15 N., R.57 W., Kimball County, Hydrologic Unit 10190016, on left bank 0.1 mi south of Bushnell at north end of highway bridge on State Highway 53c.

DRAINAGE AREA—1,350 mi^2.

PERIOD OF RECORD—October 1931 to September 1991. October 2002 to current year. Records for March to September 1931 at site 1.5 mi upstream not equivalent owing to diversions. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS—WSP 1390: 1933, 1935, 1937-38, 1941, 1948-49. WSP 1730: Drainage area.

GAGE—Water-stage recorder. Elevation of gage is 4,843,31 ft above sea level. Prior to Mar. 16, 1938, non-recording gage; Mar. 26, 1938 to July 2, 1981, water stage recorder; July 3, 1981 to Sept. 30, 1981, a non-recording gage at previous site 1.7 mi downstream from present site at datum 31.01 ft lower. October 1, 1981 to September 30, 1991, recording gage at present site at datum 2.00 ft higher. Data collection platform at station.

REMARKS—Records good except for October 5 to December 17, and estimated daily discharges, which are poor. 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 above station.

06762500 LODGEPOLE CREEK AT BUSHNELL, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.12	0.30	0.49	0.58	e0.80	0.52	0.41	0.30	0.00	0.00	0.00
2	0.00	0.13	0.30	0.46	0.63	e0.80	0.48	0.40	0.29	0.00	0.00	0.00
3	0.00	0.17	0.30	0.45	0.66	e0.70	0.50	0.38	0.28	0.00	0.00	0.00
4	0.00	0.16	0.31	e0.40	0.59	e0.70	0.51	0.34	0.25	0.00	0.00	0.00
5	0.00	0.16	0.30	e0.40	0.58	e0.70	0.47	0.31	0.22	0.00	0.00	0.00
6	0.00	0.16	0.41	e0.36	0.58	0.77	0.44	0.28	0.16	0.00	0.00	0.00
7	0.00	0.17	0.36	e0.34	e0.58	0.80	0.40	0.26	0.11	0.00	0.00	0.00
8	0.00	0.17	0.35	e0.36	e0.56	0.85	0.40	0.23	0.08	0.00	0.00	0.00
9	0.00	0.18	0.37	e0.36	e0.60	0.85	0.46	0.23	0.11	0.00	0.00	0.00
10	0.00	0.18	0.33	e0.38	e0.60	0.79	0.45	0.23	0.12	0.00	0.00	0.00
11	0.00	0.18	e0.30	e0.46	e0.56	0.74	0.45	0.22	0.04	0.00	0.00	0.00
12	0.00	0.17	e0.32	0.53	e0.50	0.73	0.48	0.24	0.00	0.00	0.00	0.00
13	0.00	0.20	e0.36	0.52	e0.54	0.70	0.45	0.35	0.00	0.00	0.00	0.00
14	0.00	0.20	e0.36	0.50	e0.60	0.68	0.43	0.32	0.00	0.00	0.00	0.00
15	0.00	0.20	e0.36	0.51	e0.62	0.67	0.39	0.32	0.00	0.00	0.00	0.00
16	0.00	0.21	e0.38	0.50	0.64	0.66	0.35	0.32	0.00	0.00	0.00	0.00
17	0.00	0.22	e0.40	0.51	0.61	0.65	0.35	0.30	0.00	0.00	0.00	0.00
18	0.00	0.22	0.41	0.51	0.61	0.64	0.36	0.30	0.04	0.00	0.00	0.00
19	0.00	0.23	0.46	0.51	0.61	0.65	0.37	0.30	0.05	0.00	0.00	0.00
20	0.00	0.23	0.49	0.52	0.60	0.62	0.38	0.28	0.07	0.00	0.00	0.00
21	0.00	0.24	0.44	0.54	0.61	0.64	0.39	0.51	0.12	0.00	0.00	0.00
22	0.00	e0.26	0.42	0.54	0.61	0.65	0.50	0.33	0.07	0.00	0.00	0.00
23	0.00	e0.24	0.42	0.55	0.62	0.63	0.44	0.33	0.05	0.00	0.00	0.00
24	0.00	e0.22	0.46	0.56	0.61	0.61	0.42	0.30	0.05	0.00	0.00	0.00
25	0.00	e0.24	0.47	0.58	0.61	0.57	0.40	0.33	e0.05	0.00	0.00	0.00
26	0.00	e0.26	0.45	0.72	0.62	0.57	0.39	0.33	e0.03	0.00	0.00	0.00
27	0.08	e0.26	0.43	0.68	0.61	0.58	0.38	0.29	0.00	0.00	0.00	0.00
28	0.09	e0.28	0.58	0.71	0.62	0.57	0.38	0.29	0.00	0.00	0.00	0.00
29	0.09	e0.30	0.50	0.58	0.74	0.55	0.38	0.32	0.00	0.00	0.00	0.00
30	0.08	e0.32	0.55	0.58	---	0.55	0.41	0.31	0.00	0.00	0.00	0.00
31	0.08	---	0.63	0.58	---	0.55	---	0.29	---	0.00	0.00	---
TOTAL	0.42	6.28	12.52	15.69	17.50	20.97	12.73	9.65	2.49	0.00	0.00	0.00
MEAN	0.01	0.21	0.40	0.51	0.60	0.68	0.42	0.31	0.08	0.00	0.00	0.00
MAX	0.09	0.32	0.63	0.72	0.74	0.85	0.52	0.51	0.30	0.00	0.00	0.00
MIN	0.00	0.12	0.30	0.34	0.50	0.55	0.35	0.22	0.00	0.00	0.00	0.00
AC-FT	0.8	12	25	31	35	42	25	19	4.9	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2004, BY WATER YEAR (WY)

MEAN	7.95	8.65	8.33	8.26	9.91	11.3	11.2	11.2	12.2	9.56	7.29	9.13
MAX	15.1	18.5	15.5	16.2	17.0	21.2	21.5	40.4	69.9	56.2	18.5	58.8
(WY)	1939	1936	1939	1936	1936	1949	1939	1983	1935	1981	1953	1951
MIN	0.00	0.16	0.40	0.51	0.60	0.68	0.42	0.31	0.08	0.00	0.00	0.00
(WY)	2003	2003	2004	2004	2004	2004	2004	2004	2004	2004	2004	2003

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1934 - 2004	
ANNUAL TOTAL	177.96		98.25			
ANNUAL MEAN	0.49		0.27		9.57	
HIGHEST ANNUAL MEAN					18.1	1935
LOWEST ANNUAL MEAN					0.27	2004
HIGHEST DAILY MEAN	8.8	Jul 29	0.85	Mar 8	1170	Sep 15 1950
LOWEST DAILY MEAN	0.00	Jul 14	0.00	Oct 1	0.00	Oct 1 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 14	0.00	Oct 1	0.00	Oct 1 2002
MAXIMUM PEAK FLOW			*0.93	Mar 7	**16500	Sep 15 1950
MAXIMUM PEAK STAGE			***3.42	Nov 24	****10.06	Jul 2 1981
ANNUAL RUNOFF (AC-FT)	353		195		6930	
10 PERCENT EXCEEDS	1.1		0.61		15	
50 PERCENT EXCEEDS	0.43		0.27		8.5	
90 PERCENT EXCEEDS	0.00		0.00		3.1	

e Estimated
* Stage 2.76 ft
** Stage 9.98 ft, datum then in use. From rating curve extension above 2700 ft3/s, on basis of slope-area measurement
*** Backwater from ice
**** Site and datum then in use

06764000 SOUTH PLATTE RIVER AT JULESBURG, CO

LOCATION—Lat 40°58'46", long 102°15'15", in NW¼NE¼ and NE¼SE¼ (three channels) sec.33, T.12 N., R.44 W., Sedgwick County, Hydrologic Unit 10190018, on left bank of channel no. 4 (left channel) 215 ft downstream from bridge, on right bank of channel no. 2, 5 ft downstream from bridge on U.S. Highway 385, and on left bank of channel no. 1, 5 ft upstream from bridge on U.S. Highway 385, 0.9 mi southeast of Julesburg, 3.0 mi upstream from Colorado-Nebraska State line, and 8 mi downstream from Lodgepole Creek.

DRAINAGE AREA—22,821 mi^2.

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. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=06764000

REVISED RECORDS—WSP 1310: 1902, 1906-7, 1948(P). WSP 1440: 1903-4. WDR CO-03-1: Drainage area.

GAGE—Three water-stage recorders with satellite telemetry. Datum of channel no. 4 gage is 3,446.76 ft above NGVD of 1929. 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 downstream at present datum. Channel no. 4: Oct. 1, 1956 to Dec. 10, 1958, at site 135 ft downstream at present datum. Since May 11, 1973, supplementary water-stage recorder on channel no. 2 at bridge 800 ft upstream at same datum. Since Aug. 16, 1996, water-stage recorder on channel no. 1; satellite telemetry installed Oct. 24, 1996.

REMARKS—Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 1,200,000 acres upstream from station, and return flow from irrigated areas.

COOPERATION—Records collected and computed by Colorado Division of Water Resources and reviewed by U.S. Geological Survey, Colorado Water Science Center.

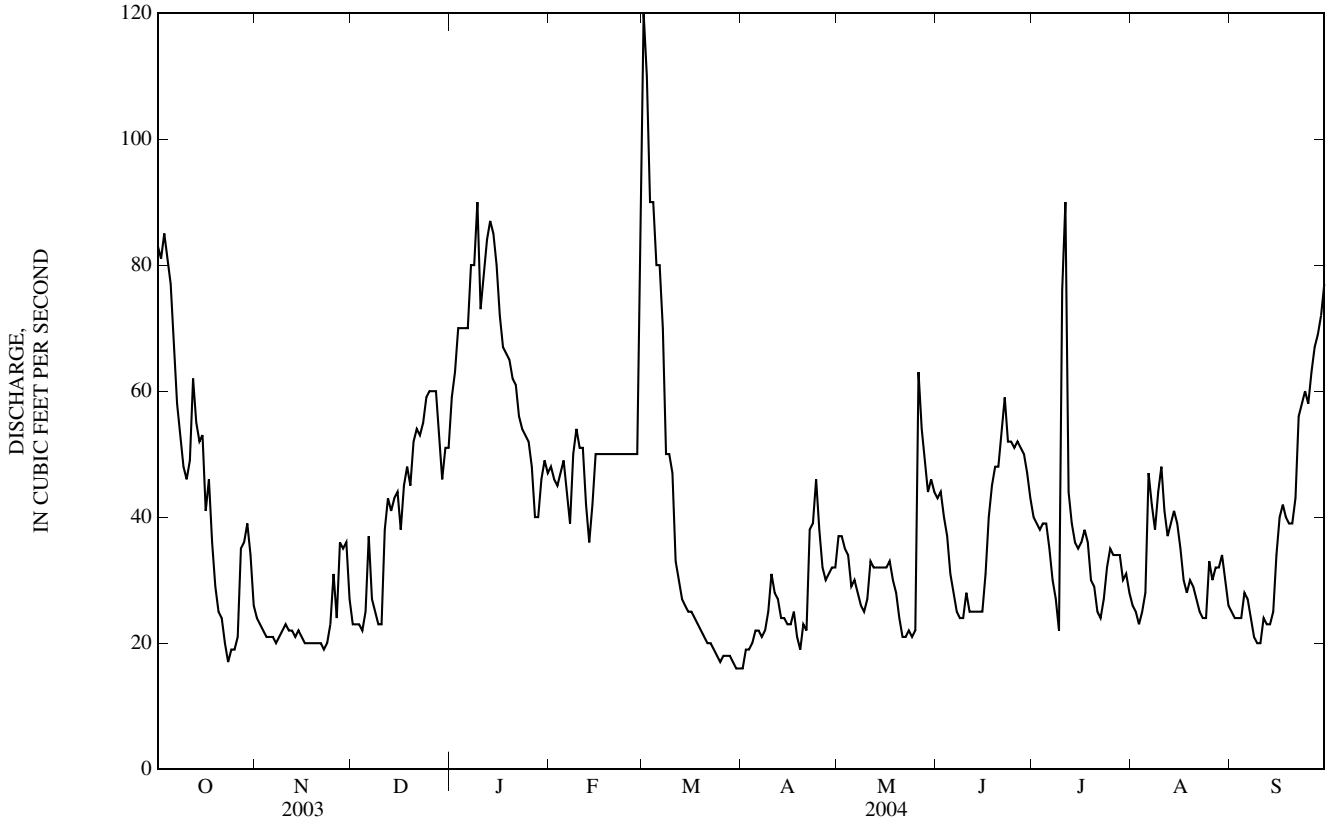
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	24	23	59	48	e120	16	37	43	40	26	25
2	81	23	23	63	46	e110	19	37	44	39	25	24
3	85	22	23	70	45	e90	19	35	40	38	23	24
4	81	21	22	e70	47	e90	20	34	37	39	25	24
5	77	21	e25	e70	49	e80	22	29	31	39	28	28
6	66	21	37	e70	44	e80	22	30	28	35	47	27
7	58	20	27	e80	39	e70	21	28	25	30	42	24
8	53	21	25	e80	50	e50	22	26	24	27	38	21
9	48	22	23	e90	54	e50	25	25	24	22	44	20
10	46	23	23	73	51	e47	31	27	28	76	48	20
11	49	22	38	79	51	33	28	33	25	90	41	24
12	62	22	43	84	42	30	27	32	25	44	37	23
13	55	21	41	87	36	e27	24	32	25	39	39	23
14	52	22	43	85	e42	e26	24	32	25	36	41	25
15	53	21	44	80	e50	e25	23	32	25	35	39	34
16	41	20	38	72	e50	e25	23	32	31	36	35	40
17	46	20	45	67	e50	e24	25	33	40	38	30	42
18	36	20	48	66	e50	e23	21	30	45	36	28	40
19	29	20	45	65	e50	e22	19	28	48	30	30	39
20	25	20	52	62	e50	e21	23	24	48	29	29	39
21	24	20	54	61	e50	e20	22	21	54	25	27	43
22	20	19	53	56	e50	e20	38	21	59	24	25	56
23	17	e20	55	54	e50	e19	39	22	52	27	24	58
24	19	e23	59	53	e50	18	46	21	52	32	24	60
25	19	31	60	52	e50	17	38	22	51	35	33	58
26	21	24	60	e48	e50	18	32	63	e52	34	30	63
27	35	36	60	e40	e50	18	30	54	e51	34	32	67
28	36	35	52	e40	e50	18	31	49	e50	34	32	69
29	39	36	e46	e46	e80	17	32	44	47	30	34	72
30	34	27	e51	49	---	16	32	46	43	31	30	77
31	26	---	e51	47	---	16	---	44	---	28	26	---
TOTAL	1,416	697	1,289	2,018	1,424	1,240	794	1,023	1,172	1,132	1,012	1,189
MEAN	45.7	23.2	41.6	65.1	49.1	40.0	26.5	33.0	39.1	36.5	32.6	39.6
MAX	85	36	60	90	80	120	46	63	59	90	48	77
MIN	17	19	22	40	36	16	16	21	24	22	23	20
AC-FT	2,810	1,380	2,560	4,000	2,820	2,460	1,570	2,030	2,320	2,250	2,010	2,360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 2004, BY WATER YEAR (WY)

MEAN	311	350	411	526	604	545	540	1,043	1,459	300	184	245
MAX	2,427	2,358	1,371	1,571	1,864	2,200	2,808	9,922	12,200	5,059	1,882	1,964
(WY)	(1985)	(1985)	(1985)	(1998)	(1930)	(1939)	(1983)	(1980)	(1983)	(1983)	(1997)	(1984)
MIN	5.85	15.4	18.8	49.6	49.1	40.0	17.3	24.1	8.33	2.15	2.52	5.60
(WY)	(1904)	(2003)	(1912)	(2003)	(2004)	(2004)	(1904)	(1911)	(1910)	(1903)	(1902)	(1903)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1902 - 2004	
ANNUAL TOTAL	18,274		14,406			
ANNUAL MEAN	50.1		39.4		546	
HIGHEST ANNUAL MEAN					2,882	1983
LOWEST ANNUAL MEAN					39.4	2004
HIGHEST DAILY MEAN	157	May 3	e120	Mar 1	30,800	Jun 16, 1921
LOWEST DAILY MEAN	12	Aug 26	16	Mar 30	a0.00	Aug 18, 1902
ANNUAL SEVEN-DAY MINIMUM	14	Aug 24	17	Mar 26	0.00	Jul 25, 1903
MAXIMUM PEAK FLOW			159	Jul 10	37,600	Jun 20, 1965
MAXIMUM PEAK STAGE			b3.41	Jul 10	c10.44	Jun 20, 1965
ANNUAL RUNOFF (AC-FT)	36,250		28,570		395,600	
10 PERCENT EXCEEDS	104		65		1,160	
50 PERCENT EXCEEDS	38		35		221	
90 PERCENT EXCEEDS	19		21		28	


DISCHARGE,
IN CUBIC FEET PER SECOND
120
100
80
60
40
20
0
O
N
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A
M
J
J
A
S
2003
2004

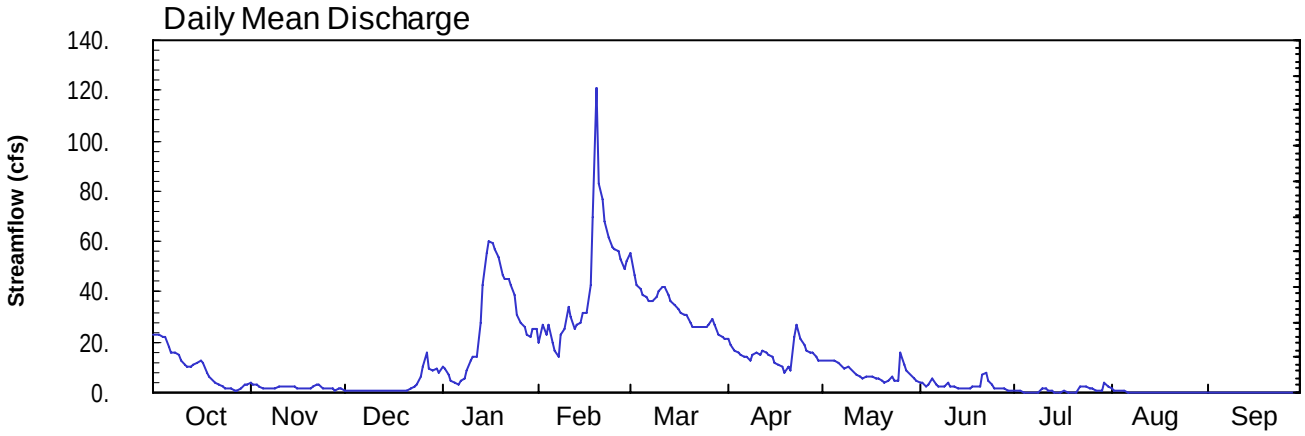
2004 Water Year

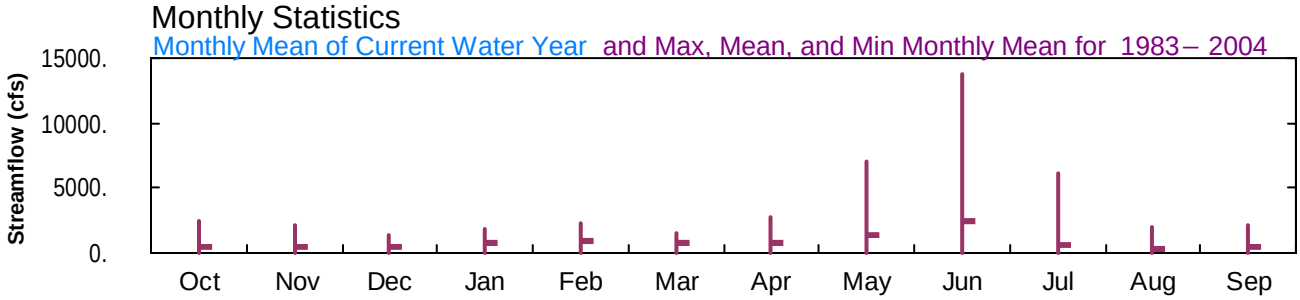
PLATTE RIVER BASIN

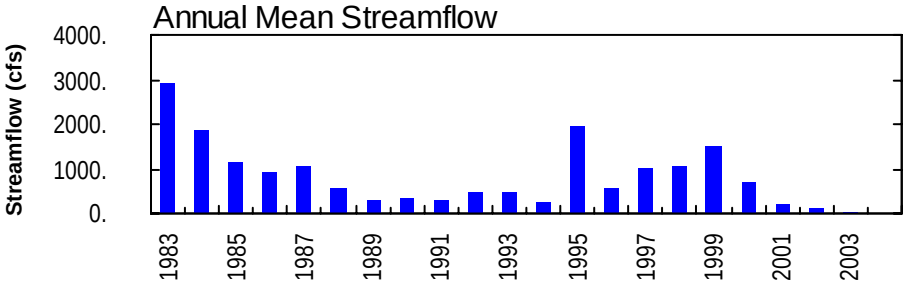
06764880 SOUTH PLATTE RIVER AT ROSCOE NEBR

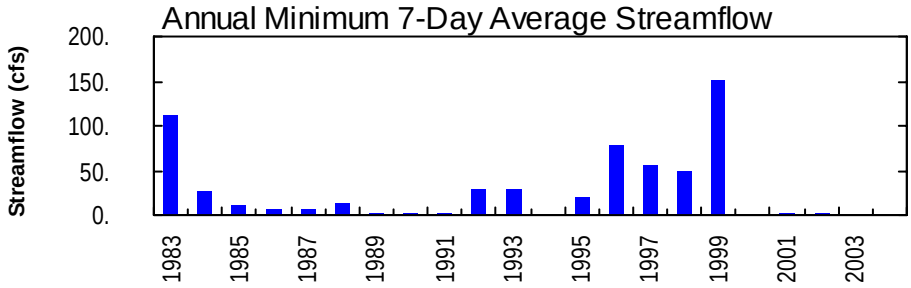
Latitude: 41°07'33" Longitude: 101°34'36" Hydrologic Unit Code: 10190018

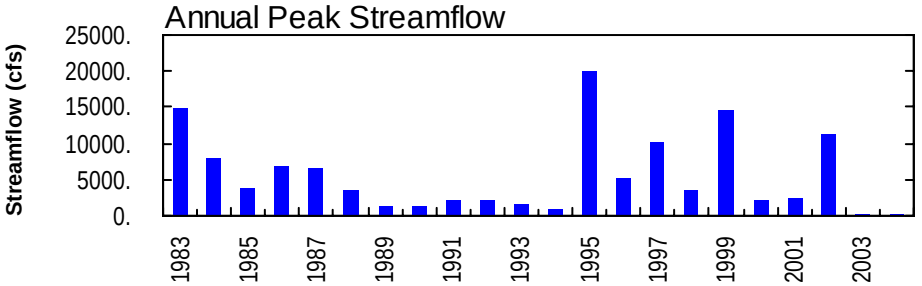
Keith County Datum: 3150.00 feet Drainage Area: 23900 mi²











06764880 SOUTH PLATTE RIVER AT ROSCOE, NE

LOCATION—Lat 41°07'33" long 101°34'35", in NW 1/4 SW 1/4 sec.4, T.13 N., R.37 W., Keith County, Hydrologic Unit 10190018, on left bank 20 ft downstream from bridge on Highway L-51B connecting Interstate 80 and U.S. Highway 30, 0.5 mi southeast of Roscoe and at mile 54.1.

DRAINAGE AREA—23,900 mi^2.

PERIOD OF RECORD—October 1982 to current year.

GAGE—Water-stage recorder. Elevation of gage is 3,150 ft, from topographic map. Data collection platform at station.

REMARKS—Record fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

06764880 SOUTH PLATTE RIVER AT ROSCOE NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	3.7	1.1	10	e20	55	21	13	3.8	0.69	1.2	0.00
2	23	3.4	1.0	e9.5	e27	47	19	13	4.3	0.94	1.0	0.00
3	23	3.1	0.95	e7.5	e23	43	17	13	2.5	0.64	0.75	0.00
4	22	2.4	0.79	e4.4	e27	41	16	13	2.8	0.33	0.65	0.00
5	22	1.9	0.66	e3.7	e20	39	15	13	5.6	0.22	0.48	0.00
6	18	1.8	0.95	e2.9	e17	38	14	12	3.5	0.13	0.35	0.00
7	16	1.5	0.97	e4.9	e14	36	14	11	2.4	0.07	0.22	0.00
8	16	1.5	0.91	e5.2	e23	36	13	9.7	2.0	0.06	0.03	0.00
9	15	1.8	0.91	e8.8	e25	38	15	9.9	2.0	0.04	0.00	0.00
10	13	2.2	0.86	e13	e34	40	16	9.1	4.3	1.2	0.00	0.00
11	11	2.5	0.96	e14	e30	42	15	8.0	2.6	1.6	0.00	0.00
12	10	2.2	0.86	e14	e25	42	17	7.3	2.0	0.89	0.00	0.00
13	10	2.1	0.70	e28	e27	39	16	6.0	1.2	0.59	0.00	0.00
14	11	2.1	0.81	e43	e28	36	15	5.2	1.2	0.37	0.05	0.00
15	12	2.0	0.69	e55	e32	35	14	6.6	1.2	0.16	0.15	0.05
16	13	1.5	0.45	e60	e32	33	12	6.4	1.5	0.23	0.09	0.00
17	12	1.4	0.61	e59	e43	32	11	6.2	1.8	0.53	0.03	0.00
18	8.0	1.5	0.58	e57	e70	31	9.9	5.7	2.1	0.32	0.08	0.00
19	6.1	1.6	0.59	e54	121	31	8.3	5.2	2.2	0.08	0.17	0.00
20	4.9	1.6	0.85	e47	83	28	10	4.6	2.6	0.00	0.13	0.00
21	3.7	2.0	0.84	e45	77	26	8.7	3.8	7.0	0.34	0.00	0.00
22	2.8	3.1	1.7	e45	68	26	22	4.4	7.9	2.0	0.00	0.00
23	2.4	3.0	2.6	e43	62	26	27	6.6	4.9	2.4	0.02	0.00
24	1.9	1.8	3.3	e39	58	26	21	4.8	2.8	2.6	0.04	0.00
25	1.4	1.8	6.7	e31	57	26	19	4.4	1.8	1.8	0.05	0.00
26	1.2	1.5	10	e28	56	27	17	16	1.6	1.7	0.00	0.00
27	1.1	1.2	16	e26	53	29	16	11	1.7	0.64	0.00	0.00
28	1.0	1.1	9.1	e23	49	27	16	8.9	1.3	0.51	0.00	0.00
29	1.9	1.3	8.6	e22	52	23	14	7.3	0.80	0.42	0.00	0.00
30	3.3	1.2	9.3	e25	---	22	13	5.9	0.57	4.2	0.00	0.05
31	3.4	---	8.3	e25	---	21	---	4.9	---	2.4	0.00	---
TOTAL	313.1	59.8	92.64	852.9	1253	1041	461.9	255.9	81.97	28.10	5.49	0.10
MEAN	10.1	1.99	2.99	27.5	43.2	33.6	15.4	8.25	2.73	0.91	0.18	0.00
MAX	23	3.7	16	60	121	55	27	16	7.9	4.2	1.2	0.05
MIN	1.0	1.1	0.45	2.9	14	21	8.3	3.8	0.57	0.00	0.00	0.00
AC-FT	621	119	184	1690	2490	2060	916	508	163	56	11	0.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004, BY WATER YEAR (WY)

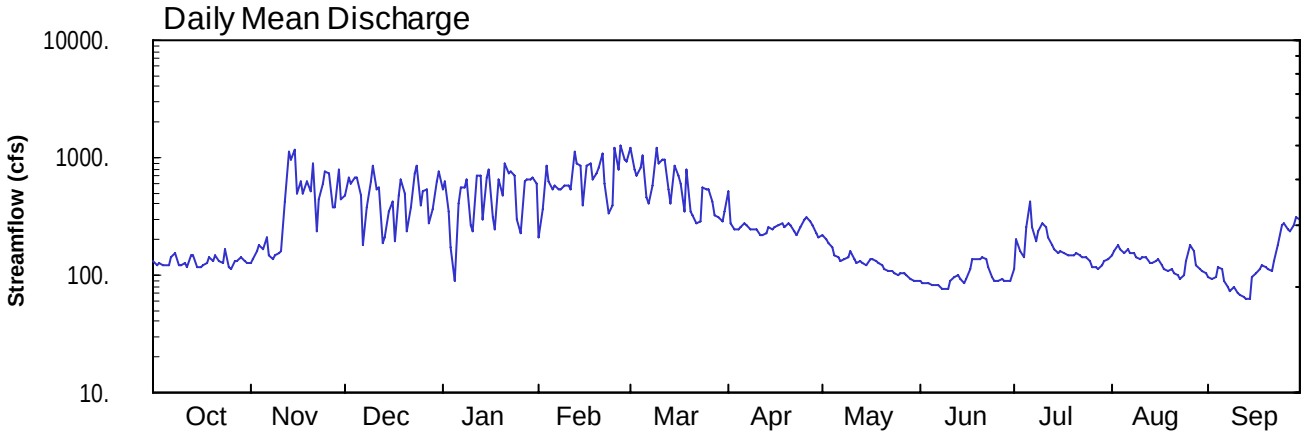
MEAN	510	425	518	807	957	732	759	1302	2380	668	318	484
MAX	2392	2183	1418	1867	2280	1519	2767	7044	13800	6081	1924	2189
(WY)	1985	1985	2000	1998	1984	1987	1984	1983	1995	1995	1997	1996
MIN	3.63	1.99	2.99	25.6	21.9	33.6	15.4	8.25	2.73	0.91	0.09	0.00
(WY)	2003	2004	2004	2003	2003	2004	2004	2004	2004	2004	2003	2004

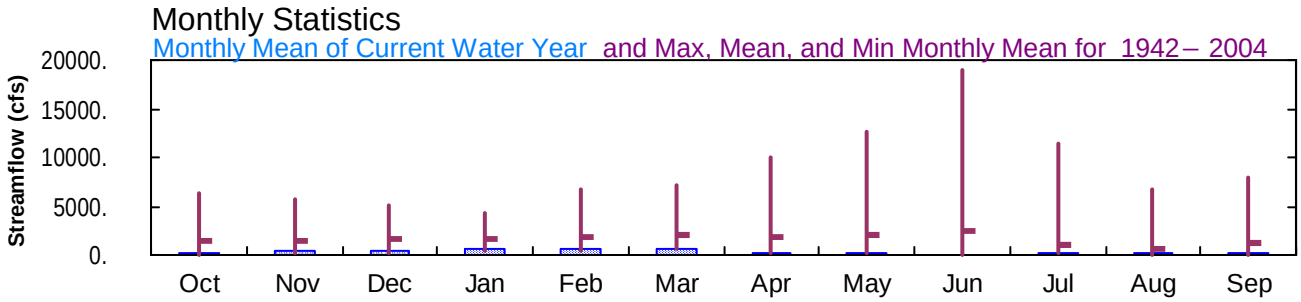
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1983 - 2004	
ANNUAL TOTAL	11194.42		4445.90			
ANNUAL MEAN	30.7		12.1		819	
HIGHEST ANNUAL MEAN					2941	1983
LOWEST ANNUAL MEAN					12.1	2004
HIGHEST DAILY MEAN	169	May 10	121	Feb 19	18100	Jun 6 1995
LOWEST DAILY MEAN	0.00	Aug 3	0.00	Jul 20	0.00	Sep 11 1994
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 3	0.00	Aug 26	0.00	Sep 11 1994
MAXIMUM PEAK FLOW			*207	Feb 19	20100	Jun 6 1995
MAXIMUM PEAK STAGE			**4.01	Feb 16	11.29	Jun 6 1995
ANNUAL RUNOFF (AC-FT)	22200		8820		593000	
10 PERCENT EXCEEDS	104		36		1770	
50 PERCENT EXCEEDS	14		4.0		318	
90 PERCENT EXCEEDS	0.00		0.00		12	

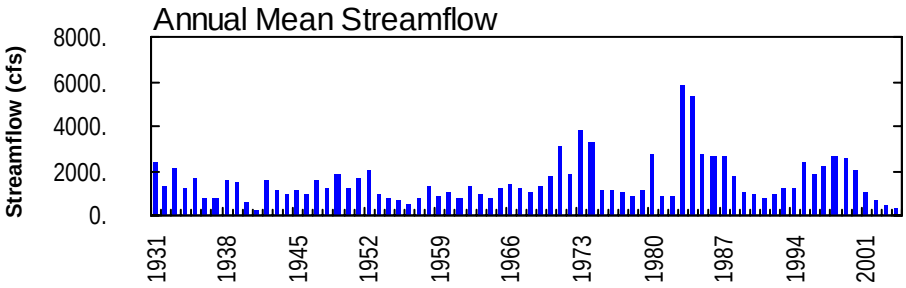
e Estimated
* Stage 3.77 ft
** Backwater from ice

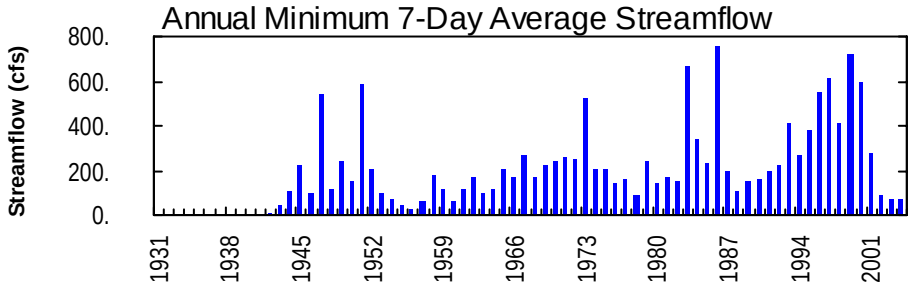
06768000 PLATTE RIVER NEAR OVERTON, NEBR. (TOTFLO)

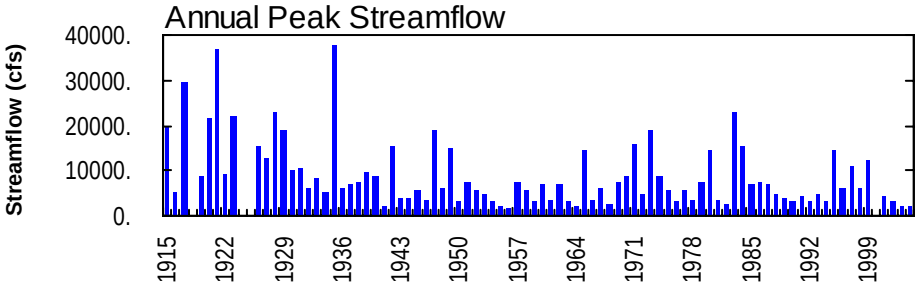
Latitude: 40° 40 ' 57" Longitude: 099° 32 ' 26" Hydrologic Unit Code: 10200101
Dawson County Datum: 2297.83 feet Drainage Area: 56300 mi²











06768000 PLATTE RIVER NEAR OVERTON, NE

LOCATION—Lat 40°40'57", long 99°32'27", in NE 1/4 NW 1/4 sec.12, T.8 N., R.20 W., Dawson County, Hydrologic Unit 10200101, on left bank 25 ft upstream from county highway bridge, 4 mi south of Overton, 4 mi downstream from Plum Creek and at mile 142.

DRAINAGE AREA—56,300 mi^2, of which about 51,620 mi^2 contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD—July to September 1914 (gage heights only), October 1914 to 1994, October 1997 to September 1998. Monthly discharge only for some periods, published in WSP 1310. Published as “near Elm Creek” 1914–15.

REVISED RECORDS—WDR NE-67, WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 2,297.83 ft above sea level. July 1914 to October 1917, non-recording gages at site 8 mi downstream at different datum. June 1918 to Sept. 12, 1928, non-recording gage at present site (south channel only) at datum 4.0 ft higher. Sept. 13, 1928 to Sept. 30, 1930, non-recording gage and Oct. 1, 1930 to Sept. 30, 1968, water-stage recorder, at present site (south channel only) at datum 2.0 ft higher. Oct. 1, 1968 to Feb. 3, 1976, water-stage recorder on south channel at present site at datum 2.0 ft higher, and Feb. 4 to June 2, 1976 (south channel gage discontinued), at datum 1.0 ft higher. Oct. 1, 1968 to July 10, 1974, north channel gage at present site at datum 2.0 ft higher and July 11, 1974 to June 1, 1976, at datum 1.0 ft higher. June 2, 1976 to Aug. 19, 1984, at site 600 ft downstream, at datum 1.0 ft higher. Aug. 20, 1984 to Oct. 6, 1986, at site 600 ft downstream. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

EXTREMES OUTSIDE REGULATED PERIOD— Maximum discharge 37,600 ft^3/s, June 5, 1935, gage height, 6.25 ft., south channel, datum then in use; no flow at times in 1919, 1922, 1925, 1927–28, 1930–41.

WATER-QUALITY RECORDS

PERIOD OF RECORD—Water years 1952, 1958 to current year.

PERIOD OF DAILY RECORD—
SPECIFIC CONDUCTANCE: January 1958 to September 1996.
WATER TEMPERATURES: January 1958 to September 1996. June 2004 to September 2004.

EXTREMES FOR PERIOD OF DAILY RECORD—
SPECIFIC CONDUCTANCE: Maximum daily, 1,480 microsiemens May 15, 1966 (south channel); minimum daily, 176 microsiemens June 25, 1989 (south channel).
WATER TEMPERATURES: Maximum, 37.0°C June 13, 1959 (south channel), July 9, 1960 (north channel); minimum, 0.0°C on many days during winter periods.

06768000 PLATTE RIVER NEAR OVERTON, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	127	472	528	211	1240	510	215	87	112	147	96
2	120	134	674	623	361	789	280	198	85	204	162	e94
3	126	158	596	346	857	706	250	187	85	162	177	98
4	123	177	672	174	621	837	249	172	86	141	165	115
5	120	167	673	e90	538	1040	259	148	83	259	152	113
6	121	207	472	e400	589	453	272	142	83	421	164	87
7	144	147	179	550	535	409	268	132	81	257	156	80
8	151	139	374	557	539	574	247	139	76	197	152	75
9	122	147	633	641	576	1210	243	144	75	238	142	79
10	120	156	846	267	581	906	242	161	75	278	135	70
11	128	161	543	240	529	947	215	138	89	257	140	67
12	116	428	565	693	1120	953	219	125	98	214	141	65
13	149	1110	188	716	875	546	230	129	99	179	126	61
14	151	959	207	301	859	412	259	127	91	164	127	63
15	119	1190	355	689	395	855	247	123	85	152	134	98
16	117	504	424	780	849	709	253	134	92	157	139	106
17	122	636	191	315	892	608	261	139	113	154	123	111
18	126	496	472	249	645	350	271	133	136	150	113	120
19	142	628	647	655	736	798	260	126	137	150	108	119
20	130	517	495	469	809	347	279	121	136	148	112	114
21	147	872	238	895	1070	317	268	113	141	152	105	108
22	131	239	374	731	602	276	232	110	138	147	98	132
23	126	439	735	770	337	288	214	107	115	143	94	179
24	164	600	864	712	392	548	253	102	97	144	98	262
25	116	770	398	298	1210	538	299	102	89	130	133	278
26	111	722	516	224	801	529	309	105	89	118	178	249
27	132	383	542	e624	1250	424	286	104	91	115	161	237
28	132	383	274	644	953	328	267	99	90	114	123	264
29	141	796	363	640	923	316	229	94	90	122	112	305
30	130	438	620	666	---	291	211	88	88	133	107	302
31	128	---	776	608	---	345	---	90	---	137	103	---
TOTAL	4036	13830	15378	16095	20655	18889	7882	4047	2920	5449	4127	4147
MEAN	130	461	496	519	712	609	263	131	97.3	176	133	138
MAX	164	1190	864	895	1250	1240	510	215	141	421	178	305
MIN	111	127	179	90	211	276	211	88	75	112	94	61
AC-FT	8010	27430	30500	31920	40970	37470	15630	8030	5790	10810	8190	8230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, BY WATER YEAR (WY)

MEAN	1376	1443	1551	1629	1902	2044	1874	2105	2357	1046	704	1184
MAX	6330	5765	5012	4281	6730	7206	10050	12590	18970	11380	6635	8040
(WY)	1974	1985	1985	1984	1984	1984	1984	1984	1983	1983	1983	1983
MIN	75.1	169	156	336	474	609	263	131	97.3	135	83.7	54.9
(WY)	1942	1942	1942	1942	1942	2004	2004	2004	2004	2003	1956	1956

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1942 – 2004a	
ANNUAL TOTAL	141649		117455			
ANNUAL MEAN	388		321		1598	
HIGHEST ANNUAL MEAN					5835	1983
LOWEST ANNUAL MEAN					321	2004
HIGHEST DAILY MEAN	1190	Nov 15	1250	Feb 27	22300	Jun 22 1983
LOWEST DAILY MEAN	60	Sep 8	61	Sep 13	2.0	Aug 31 1942
ANNUAL SEVEN-DAY MINIMUM	72	Aug 29	69	Sep 8	5.4	Aug 25 1942
MAXIMUM PEAK FLOW			2140	Mar 1	*22900	Jun 28 1983
MAXIMUM PEAK STAGE			**2.62	Mar 1	***7.44	Jun 22 1983
ANNUAL RUNOFF (AC-FT)	281000		233000		1158000	
10 PERCENT EXCEEDS	776		735		2960	
50 PERCENT EXCEEDS	331		201		1170	
90 PERCENT EXCEEDS	106		97		259	

e Estimated
a Since beginning of storage in Lake McConaughy
* Stage 7.38 ft, current datum
** Also occurred Feb 3
*** Current datum

06768000 PLATTE RIVER NEAR OVERTON, NE—Continued

Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
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	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

06768000 PLATTE RIVER NEAR OVERTON, NE—Continued

Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	27.3	21.0	25.9	21.2	33.7	24.1	29.5	19.3
2	---	---	---	---	26.1	19.4	26.6	20.8	32.8	25.3	---	---
3	---	---	---	---	26.0	19.0	27.8	22.3	32.2	25.3	27.6	18.3
4	---	---	---	---	25.4	18.1	32.3	21.0	30.3	24.4	28.3	18.2
5	---	---	---	---	25.9	19.0	29.2	20.0	27.5	21.8	26.4	18.3
6	---	---	---	---	28.0	20.3	27.5	18.8	25.2	20.4	27.6	15.0
7	---	---	---	---	29.0	19.7	27.2	18.8	26.4	19.8	26.9	16.3
8	---	---	---	---	31.1	20.4	29.2	20.2	29.7	21.7	26.6	16.1
9	---	---	---	---	30.5	20.6	31.6	20.5	28.3	21.5	26.4	15.5
10	---	---	---	---	27.7	20.7	27.5	22.0	24.6	19.8	24.8	14.3
11	---	---	---	---	28.0	18.3	31.8	23.6	25.4	17.0	28.0	15.5
12	---	---	---	---	26.9	19.9	33.5	24.8	25.6	18.0	27.8	16.0
13	---	---	---	---	27.7	21.4	32.7	24.7	26.1	16.7	27.6	18.0
14	---	---	---	---	27.1	22.0	32.0	23.4	20.2	16.8	28.0	18.1
15	---	---	---	---	27.9	21.5	34.9	22.7	26.6	14.8	23.1	19.2
16	---	---	---	---	26.0	21.2	30.7	23.0	30.3	18.3	21.7	18.3
17	---	---	---	---	21.3	18.7	33.2	22.8	30.1	20.1	23.2	18.4
18	---	---	---	---	20.2	15.8	32.8	22.2	27.5	20.7	24.3	20.1
19	---	---	---	---	16.8	14.5	33.8	23.3	26.1	16.4	24.8	20.3
20	---	---	---	---	21.0	15.7	33.4	25.1	30.1	18.4	22.6	19.8
21	---	---	---	---	21.4	16.9	32.4	25.3	29.0	18.7	21.0	16.1
22	---	---	---	---	28.4	16.1	29.5	23.9	30.9	18.4	16.1	14.3
23	---	---	---	---	31.0	18.3	24.5	19.2	31.8	20.6	17.9	13.3
24	---	---	---	---	25.1	18.7	24.0	17.6	31.0	20.4	20.2	14.2
25	---	---	---	---	28.2	15.5	24.0	19.9	28.8	19.9	21.4	15.4
26	---	---	---	---	20.8	15.8	27.3	20.1	28.0	21.8	21.9	16.5
27	---	---	---	---	25.2	15.1	29.4	17.2	26.4	21.5	21.7	17.6
28	---	---	---	---	29.8	15.3	24.6	20.4	25.8	18.9	20.2	15.7
29	---	---	---	---	30.2	17.8	29.9	19.3	26.7	18.4	17.2	14.1
30	---	---	---	---	29.6	18.4	30.2	20.2	28.3	19.5	19.1	14.6
31	---	---	---	---	---	---	31.6	22.1	29.8	19.0	---	---
MONTH	---	---	---	---	31.1	14.5	34.9	17.2	33.7	14.8	---	---

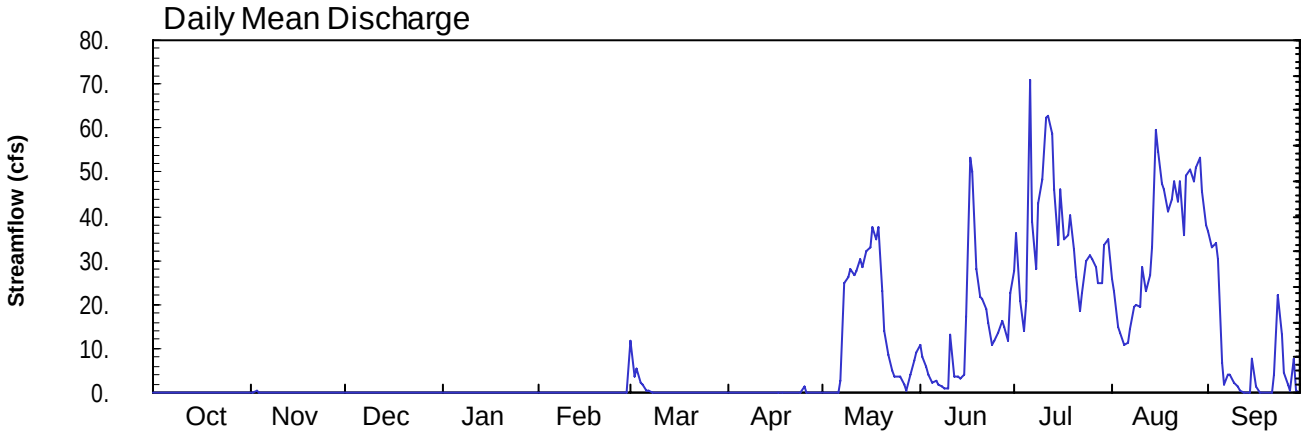
2004 Water Year

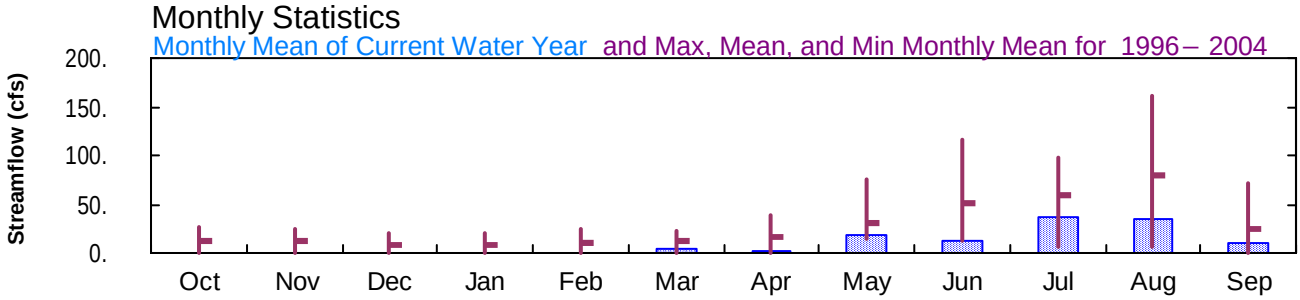
PLATTE RIVER BASIN

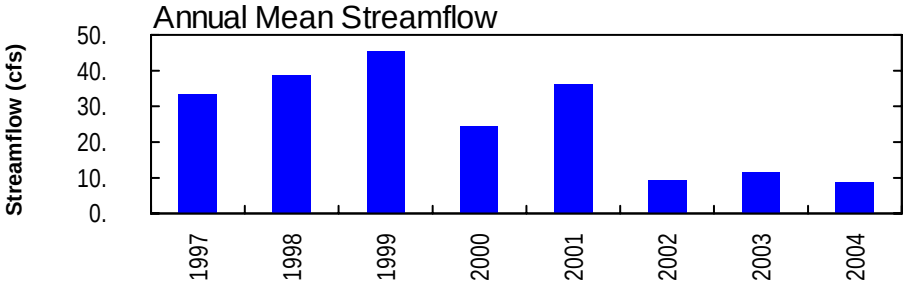
06768020 SPRING CREEK NR OVERTON, NE

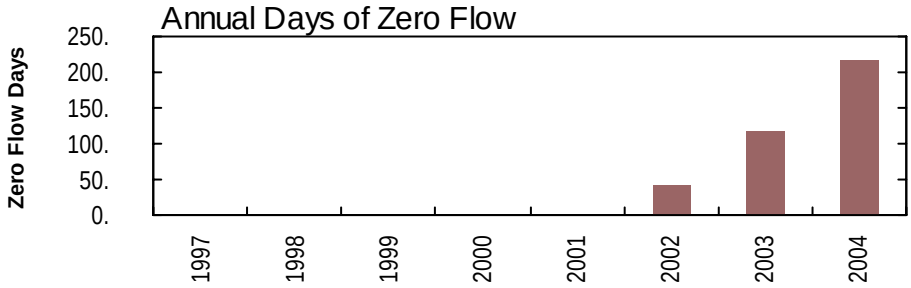
Latitude: 40° 42 ' 26" Longitude: 099° 33 ' 34" Hydrologic Unit Code: 10200101

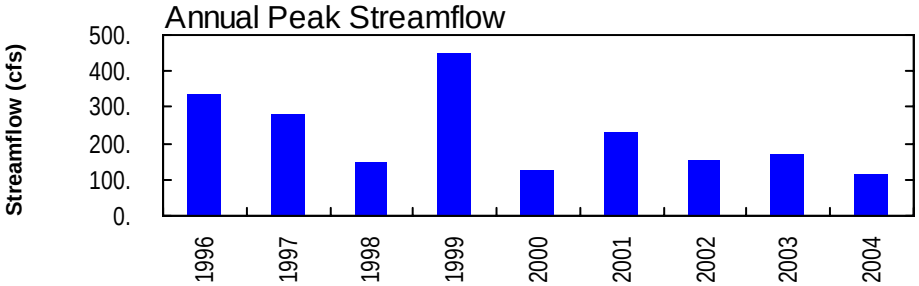
Dawson County Datum: 2310 feet Drainage Area: mi^2











06768020 SPRING CREEK NEAR OVERTON, NE

LOCATION—Lat 40°42'26", long 99°33'34", in SE 1/4 SE 1/4 , sec.35, T.9 N., R.20 W., Dawson County, Hydrologic Unit 10200101, on upstream side of county road bridge, 1.0 mi west and 2.5 mi south of Overton.

PERIOD OF RECORD—April 1996 to current year.

GAGE—Water-stage recorder. Elevation of gage is 2,310 ft above sea level, from topographic map.

REMARKS—Records good except for estimated daily discharges, which are poor.

06768020 SPRING CREEK NEAR OVERTON, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	12	0.00	0.00	11	27	26	37
2	0.00	0.00	0.00	0.00	0.00	3.8	0.00	0.00	8.2	36	23	33
3	0.00	0.24	0.00	0.00	0.00	5.6	0.00	0.00	5.8	21	15	34
4	0.00	0.05	0.00	0.00	0.00	2.3	0.00	0.00	3.9	14	14	30
5	0.00	0.00	0.00	0.00	0.00	1.8	0.00	0.00	2.4	21	11	6.9
6	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	2.8	71	12	1.7
7	0.00	0.00	0.00	0.00	0.00	0.26	0.00	2.6	2.0	39	15	4.0
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	1.4	28	19	3.9
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26	0.80	43	20	2.3
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28	0.78	49	20	1.2
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27	13	63	28	0.31
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27	3.8	63	23	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30	3.5	59	27	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29	3.1	46	33	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32	3.9	33	60	7.5
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33	17	46	55	1.2
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37	53	35	48	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35	50	36	46	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37	28	40	41	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23	22	33	44	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14	21	26	48	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.7	19	19	44	3.9
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.8	e16	23	48	22
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.7	11	30	36	13
25	0.00	0.00	0.00	0.00	0.00	0.00	1.1	3.8	12	31	49	4.5
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	14	30	51	1.7
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	16	29	48	0.64
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	15	25	51	7.9
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.9	12	25	54	0.60
30	0.00	0.00	0.00	0.00	---	0.00	0.00	7.2	23	33	46	0.00
31	0.00	---	0.00	0.00	---	0.00	---	9.0	---	35	38	---
TOTAL	0.00	0.29	0.00	0.00	0.00	26.13	1.10	452.37	395.38	1109	1093	217.25
MEAN	0.00	0.01	0.00	0.00	0.00	0.84	0.04	14.6	13.2	35.8	35.3	7.24
MAX	0.00	0.24	0.00	0.00	0.00	12	1.1	37	53	71	60	37
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	14	11	0.00
AC-FT	0.00	0.6	0.00	0.00	0.00	52	2.2	897	784	2200	2170	431

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	11.3	11.7	9.15	9.14	10.6	12.2	16.3	31.2	51.6	60.0	78.8	23.7
MAX	26.8	24.7	20.6	21.4	25.1	22.2	38.1	74.7	117	98.4	162	70.8
(WY)	1997	1997	1997	1997	1997	1997	2001	2001	1999	1999	1999	1996
MIN	0.00	0.01	0.00	0.00	0.00	0.84	0.04	14.5	13.2	7.07	5.73	0.07
(WY)	2004	2004	2004	2003	2004	2004	2004	2002	2004	2002	2002	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL TOTAL	4193.37		3294.52			
ANNUAL MEAN	11.5		9.00		26.1	
HIGHEST ANNUAL MEAN					45.4	1999
LOWEST ANNUAL MEAN					9.00	2004
HIGHEST DAILY MEAN	102	Jun 25	71	Jul 6	431	Aug 19 1999
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jul 17 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Aug 10 2002
MAXIMUM PEAK FLOW			115	Jul 6	453	Aug 19 1999
MAXIMUM PEAK STAGE			5.46	Jul 6	7.62	Aug 19 1999
ANNUAL RUNOFF (AC-FT)	8320		6530		18890	
10 PERCENT EXCEEDS	37		35		70	
50 PERCENT EXCEEDS	0.35		0.00		15	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

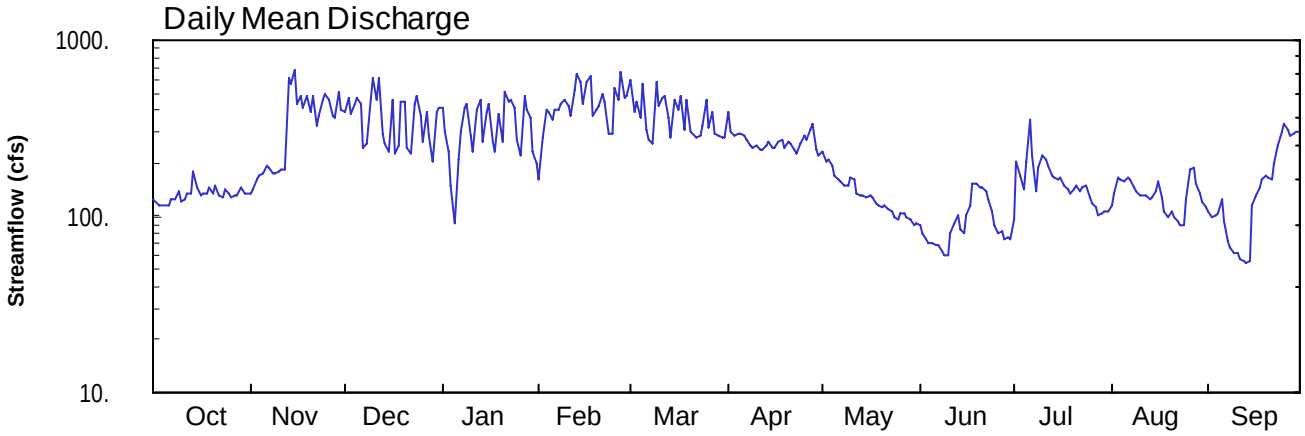
2004 Water Year

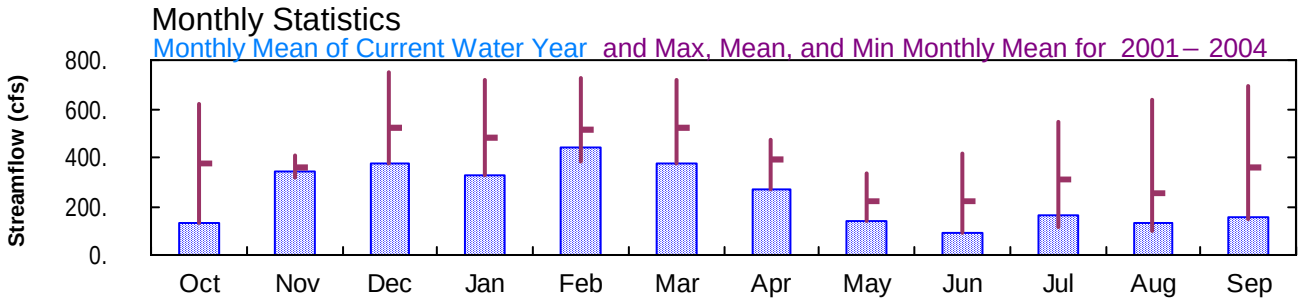
PLATTE RIVER BASIN

06768035 PLATTE R MID CH,COTTONWOOD RANCH, NR ELM CREEK, NE

Latitude: 40° 41 ' 02" Longitude: 099° 25 ' 10" Hydrologic Unit Code: 10200101

Dawson County Datum: 2260 feet Drainage Area: mi^2





06768035 PLATTE RIVER MIDDLE CHANNEL AT COTTONWOOD RANCH, NEAR ELM CREEK, NE

LOCATION—Lat 40°41'10", long 99°26'23", in SE 1/4 SE 1/4 , sec.2, T.8 N., R.19 W., Dawson County, Hydrologic Unit 10200101, on left bank of island on middle channel, at Cottonwood Ranch, and 3.7 miles southwest of Elm Creek, NE.

PERIOD OF RECORD—May 2001 to current year.

GAGE—Water-stage recorder. Datum of gage is 2,261.92 ft above sea level. Data collection platform at station.

REMARKS—Records good, except for estimated daily discharges, which are poor.

06768035 PLATTE RIVER MIDDLE CHANNEL AT COTTONWOOD RANCH NEAR ELM CREEK, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	136	e390	408	e160	602	394	232	88	95	115	107
2	117	143	e470	299	e280	391	299	204	80	202	135	99
3	114	160	e380	e230	e400	452	290	211	75	172	167	101
4	114	172	e440	e150	e390	367	294	192	70	143	162	105
5	114	174	474	e92	e350	569	291	172	70	206	158	126
6	116	195	e430	e210	e400	309	285	163	69	356	166	93
7	126	187	246	e300	e400	271	271	159	68	221	161	73
8	125	174	259	e410	e430	256	252	150	63	139	145	66
9	137	176	467	e430	e460	578	245	149	60	188	137	62
10	121	178	615	e290	e420	426	251	168	60	224	130	62
11	126	185	463	e230	e370	473	238	160	80	212	133	57
12	134	182	609	e400	e520	482	236	136	91	196	133	55
13	134	e610	293	457	e640	361	252	132	102	172	125	54
14	179	e560	259	264	e580	277	263	133	84	167	127	56
15	145	e680	232	390	e430	458	244	127	80	161	140	116
16	130	e430	458	439	e580	400	245	130	101	165	156	132
17	134	e480	228	268	e620	480	263	128	116	151	129	147
18	136	e410	255	232	e370	307	269	119	152	141	107	163
19	145	e480	445	386	e400	463	244	114	153	136	99	170
20	136	e390	442	267	e420	301	267	112	146	143	107	165
21	148	e480	244	512	489	292	260	114	146	150	100	160
22	133	e330	226	446	448	278	241	110	137	140	94	197
23	127	e370	438	461	298	286	229	106	124	144	88	255
24	142	e460	483	408	297	330	260	99	106	150	89	303
25	135	e500	375	271	542	460	287	97	88	129	124	332
26	127	e460	267	e220	460	318	271	104	80	118	184	310
27	133	e370	395	e480	655	397	311	104	82	111	191	288
28	131	e360	287	e400	476	294	332	100	74	102	153	291
29	145	e510	205	e360	478	286	241	96	76	103	134	300
30	136	e400	397	e230	---	280	224	88	75	108	121	306
31	135	---	417	e200	---	281	---	91	---	108	113	---
TOTAL	4101	10342	11589	10140	12763	11725	8049	4200	2796	4953	4123	4751
MEAN	132	345	374	327	440	378	268	135	93.2	160	133	158
MAX	179	680	615	512	655	602	394	232	153	356	191	332
MIN	114	136	205	92	160	256	224	88	60	95	88	54
AC-FT	8130	20510	22990	20110	25320	23260	15970	8330	5550	9820	8180	9420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	380	356	520	480	517	525	392	223	224	306	250	357
MAX	622	406	753	721	728	718	472	337	415	551	635	690
(WY)	2002	2002	2002	2002	2002	2002	2002	2003	2001	2001	2001	2001
MIN	132	317	374	327	384	378	268	135	93.2	116	95.6	145
(WY)	2004	2003	2004	2004	2003	2004	2004	2004	2004	2003	2003	2003

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	103934		89532			
ANNUAL MEAN	285		245		345	
HIGHEST ANNUAL MEAN					481	2002
LOWEST ANNUAL MEAN					245	2004
HIGHEST DAILY MEAN	680	Nov 15	680	Nov 15	1080	Aug 17 2001
LOWEST DAILY MEAN	51	Sep 4	54	Sep 13	50	Jun 1 2002
MAXIMUM PEAK FLOW			*943	Mar 12	**1130	Aug 16 2002
MAXIMUM PEAK STAGE			***6.01	Feb 3	***6.99	Mar 4 2002
ANNUAL SEVEN-DAY MINIMUM	65	Aug 30	59	Sep 8	53	May 29 2002
ANNUAL RUNOFF (AC-FT)	206200		177600		249800	
10 PERCENT EXCEEDS	499		460		700	
50 PERCENT EXCEEDS	280		201		306	
90 PERCENT EXCEEDS	101		96		100	

e Estimated
* Stage 4.53 ft
** Stage 4.78 ft
*** Backwater from ice

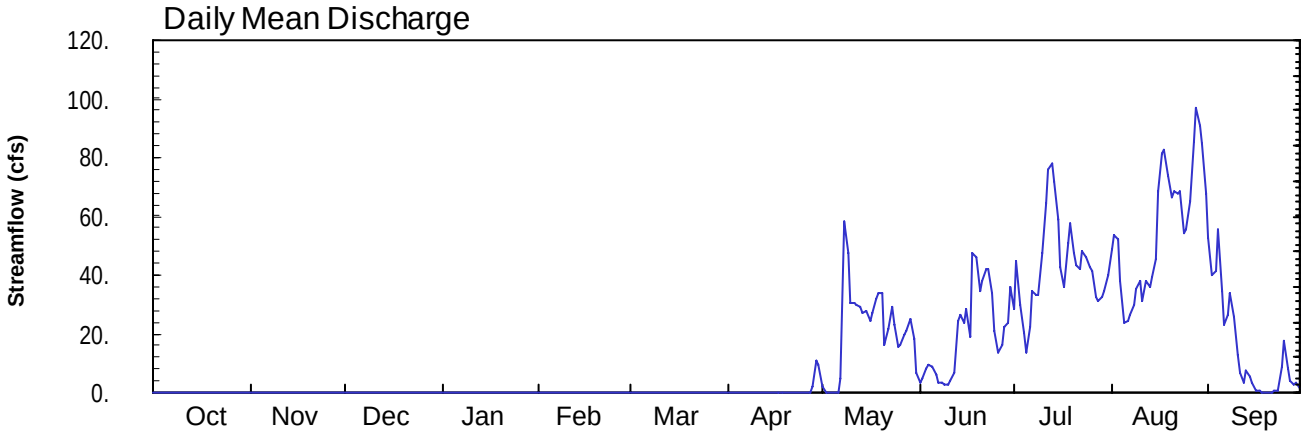
2004 Water Year

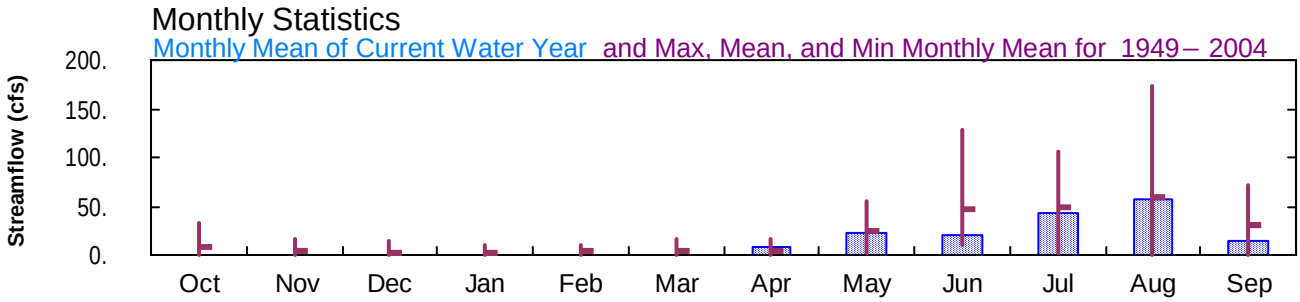
PLATTE RIVER BASIN

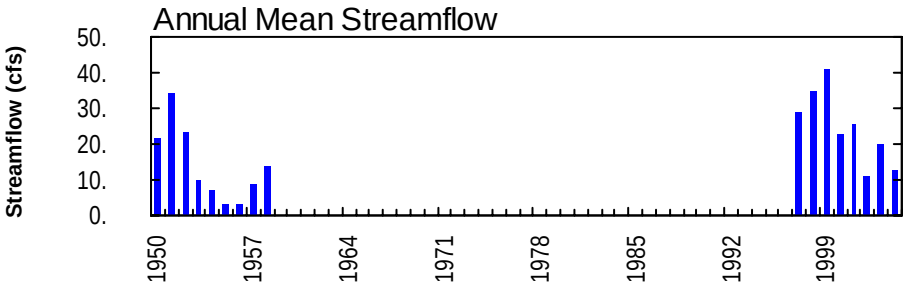
06769000 BUFFALO CREEK NR OVERTON NEBR

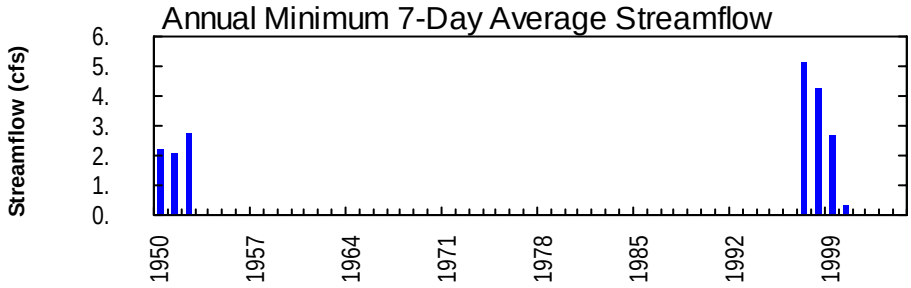
Latitude: 40° 44 ' 04" Longitude: 099° 30 ' 20" Hydrologic Unit Code: 10200101

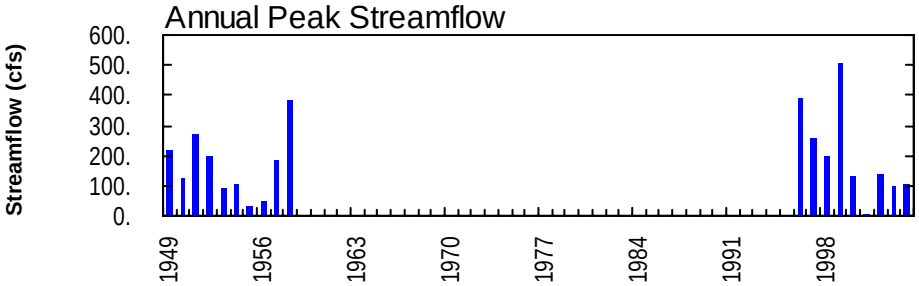
Dawson County Datum: 2296.67 feet Drainage Area: 175. mi^2











06769000 BUFFALO CREEK NEAR OVERTON, NE

LOCATION—Lat 40°44'04", long 99°30'20", in NE 1/4 SE 1/4 , sec.20, T.9 N., R.19 W., Dawson County, Hydrologic Unit 10200101, on downstream side of State Highway 30 bridge, 1.7 mi east of Overton.

DRAINAGE AREA—175 mi^2.

PERIOD OF RECORD—October 1949 to September 1958. April 1996 to current year.

GAGE—Water-stage recorder. Datum of gage is 2,296.67 ft above sea level. October 1949 to September 1958 at datum 0.41 ft higher.

REMARKS—Records good.

06769000 BUFFALO CREEK NEAR OVERTON NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.1	3.3	29	49	53
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	5.0	45	54	40
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	7.9	30	52	41
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.7	20	38	55
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.6	13	24	34
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.1	23	25	23
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.0	3.7	34	26	26
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58	3.1	33	30	34
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47	2.8	33	35	26
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30	2.9	47	38	13
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31	4.2	64	31	6.5
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30	6.8	76	38	3.4
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29	24	78	36	7.7
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27	26	72	39	5.6
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28	24	59	46	3.6
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	28	42	69	0.94
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27	19	36	82	0.36
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32	48	51	83	0.22
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34	46	57	74	0.20
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34	34	47	66	0.19
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17	38	43	68	0.16
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22	42	42	68	0.40
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29	42	48	69	0.76
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23	34	46	55	9.0
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16	21	43	55	17
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16	13	41	65	8.0
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20	16	33	85	4.2
28	0.00	0.00	0.00	0.00	0.00	0.00	2.2	21	23	31	97	2.6
29	0.00	0.00	0.00	0.00	0.00	0.00	11	25	24	33	91	3.2
30	0.00	0.00	0.00	0.00	---	0.00	9.3	18	36	35	84	1.4
31	0.00	---	0.00	0.00	---	0.00	---	6.6	---	40	68	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	22.50	651.97	602.1	1324	1740	420.43
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.75	21.0	20.1	42.7	56.1	14.0
MAX	0.00	0.00	0.00	0.00	0.00	0.00	11	58	48	78	97	55
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	13	24	0.16
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	45	1290	1190	2630	3450	834

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004, BY WATER YEAR (WY)

MEAN	8.60	3.58	2.84	2.38	3.24	4.20	5.04	24.4	47.9	49.5	58.9	30.8
MAX	33.1	15.4	13.4	10.9	10.1	15.3	17.1	54.7	130	106	174	71.1
(WY)	1951	1998	1997	1998	2000	1952	2001	2001	1999	1951	1996	1950
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.12	10.4	2.04	0.00	0.46
(WY)	2003	1955	1955	1954	1955	1956	1955	1958	1956	1954	1955	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 – 2004a	
ANNUAL TOTAL	7317.10		4761.00			
ANNUAL MEAN	20.0		13.0		19.0	
HIGHEST ANNUAL MEAN					40.9	1999
LOWEST ANNUAL MEAN					3.07	1955
HIGHEST DAILY MEAN	93	Jul 31	97	Aug 28	472	Jun 12 1999
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Apr 26 1953
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Jul 16 1953
MAXIMUM PEAK FLOW			103	Aug 28	509	Jun 12 1999
MAXIMUM PEAK STAGE			6.20	Aug 28	10.79	Jun 12 1999
ANNUAL RUNOFF (AC-FT)	14510		9440		13770	
10 PERCENT EXCEEDS	72		46		63	
50 PERCENT EXCEEDS	0.00		0.00		4.4	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a Water years 1949–58, 1996-2004

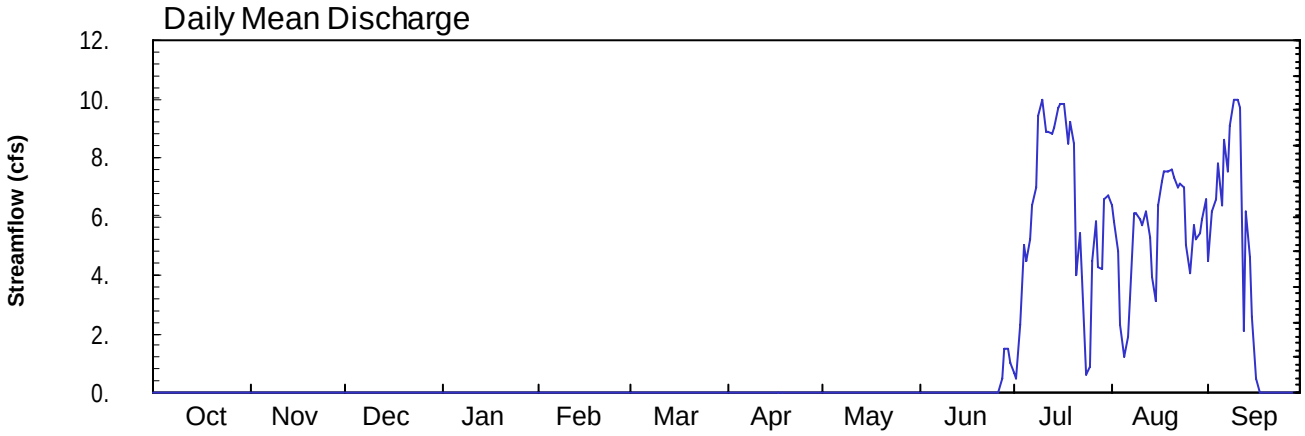
2004 Water Year

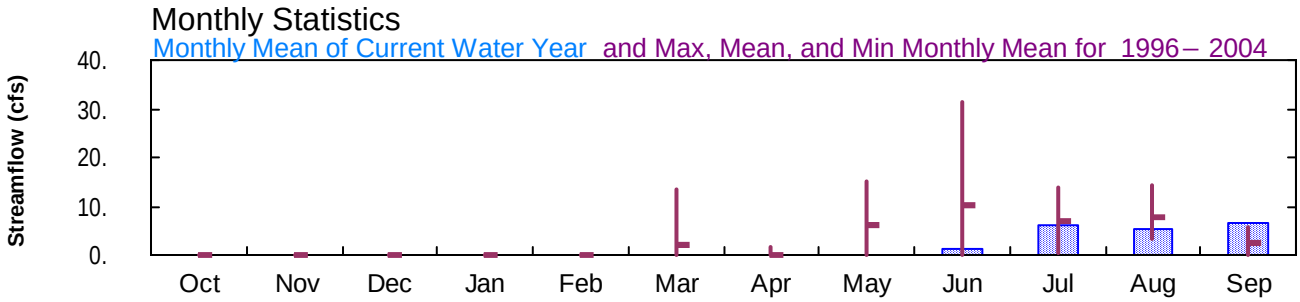
PLATTE RIVER BASIN

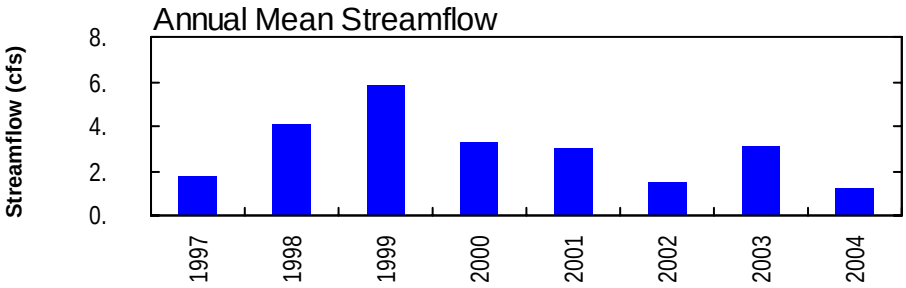
06769525 ELM CREEK NR ELM CREEK, NE

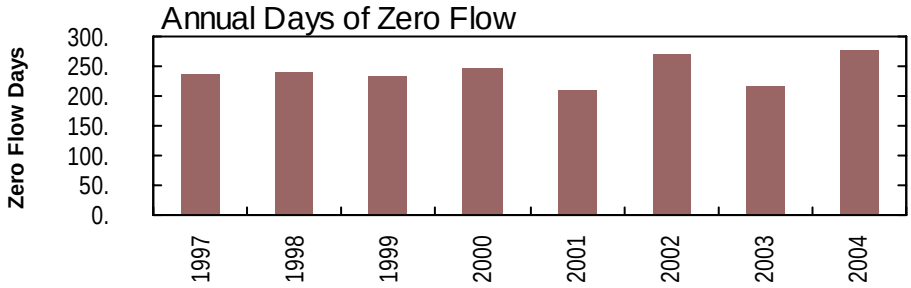
Latitude: 40° 43 ' 44" Longitude: 099° 23 ' 53" Hydrologic Unit Code: 10200101

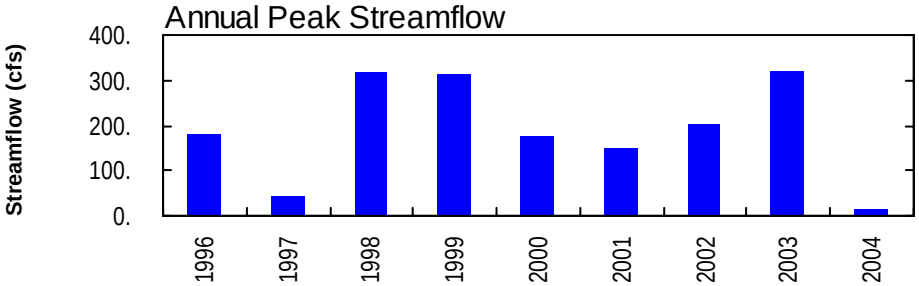
Buffalo County Datum: feet Drainage Area: mi^2











06769525 ELM CREEK NEAR ELM CREEK, NE

LOCATION—Lat 40°43'44", long 99°23'53", in NW 1/4 NE 1/4 , sec.20, T.9 N., R.18 W., Buffalo County, Hydrologic Unit 10200101, on right downstream side of bridge.

PERIOD OF RECORD—March 1996 to current year.

GAGE—Water-stage recorder. Elevation of gage is 2,270 ft above sea level, from topographic map.

REMARKS—Records fair, except for estimated daily discharges, which are poor.

06769525 ELM CREEK NEAR ELM CREEK, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	6.4	e4.5
2	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	5.8	6.2
3	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.3	4.8	6.6
4	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.0	2.3	7.8
5	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.5	1.2	6.4
6	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.2	1.9	8.6
7	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.4	3.2	7.5
8	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.0	6.1	9.1
9	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.4	6.1	10
10	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	5.9	10
11	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.9	5.7	9.7
12	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.9	6.2	e2.1
13	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.8	5.3	e6.2
14	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.0	3.9	e4.6
15	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.7	3.1	e2.6
16	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.8	6.4	e0.50
17	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.8	7.2	e0.00
18	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.5	7.5	e0.00
19	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.2	7.5	e0.00
20	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.5	7.6	e0.00
21	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.0	7.3	e0.00
22	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.4	7.0	e0.00
23	e0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	3.9	7.1	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	e7.0	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	e5.0	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.5	4.1	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	5.8	5.7	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5	4.3	5.2	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5	4.2	5.4	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	1.0	6.6	5.9	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	6.7	6.6	---
TOTAL	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	4.46	188.94	170.4	102.40
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	6.09	5.50	3.41
MAX	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	1.5	10	7.6	10
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	1.2	0.00
AC-FT	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	8.8	375	338	203

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	0.00	0.01	0.00	0.00	0.00	1.89	0.19	6.23	10.1	6.91	7.91	2.37
MAX	0.00	0.07	0.00	0.00	0.00	13.4	1.50	15.0	31.3	13.8	14.4	5.86
(WY)	1997	1997	1997	1997	2004	2001	2001	2003	1999	2000	1999	1999
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.39	3.41	0.03
(WY)	1997	1998	1997	1997	1997	1997	1996	2004	2004	2002	2000	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL TOTAL	1121.54		466.21			
ANNUAL MEAN	3.07		1.27		3.00	
HIGHEST ANNUAL MEAN					5.89	1999
LOWEST ANNUAL MEAN					1.27	2004
HIGHEST DAILY MEAN	204	May 24	10	Jul 10	204	May 24 2003
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Mar 21 1996
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Mar 21 1996
MAXIMUM PEAK FLOW			12	Jul 10	317	May 21 1998
MAXIMUM PEAK STAGE			3.64	Jul 10	8.76	May 21 1998
ANNUAL RUNOFF (AC-FT)	2220		925		2170	
10 PERCENT EXCEEDS	8.6		6.3		10	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

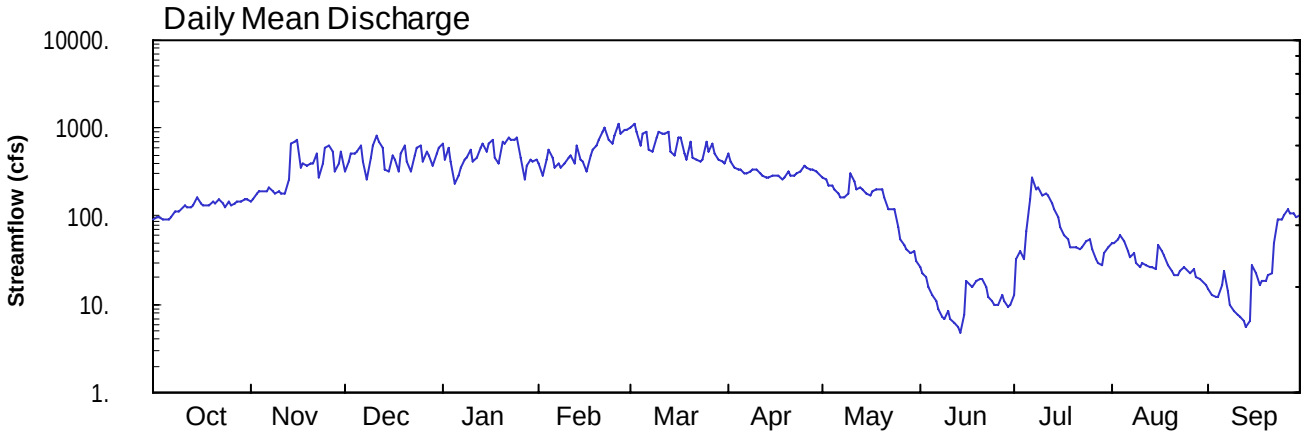
2004 Water Year

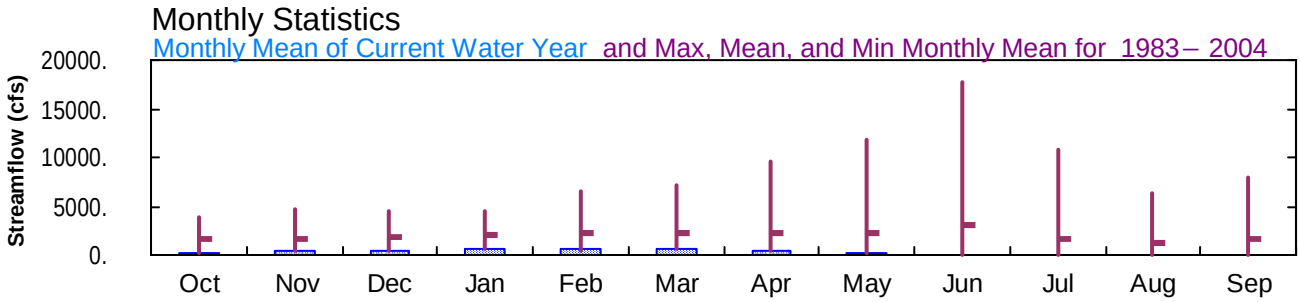
PLATTE RIVER BASIN

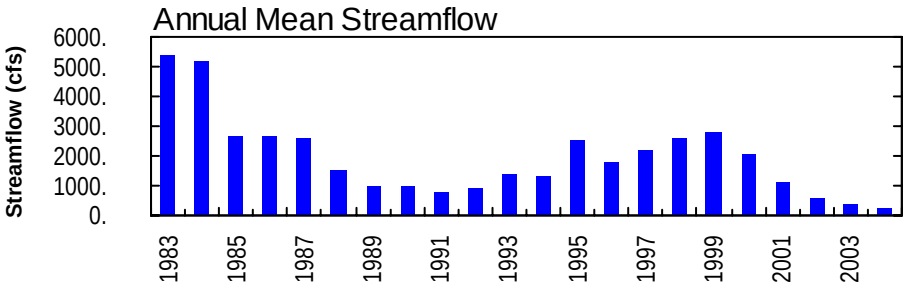
06770200 PLATTE RIVER NEAR KEARNEY, NEBR.

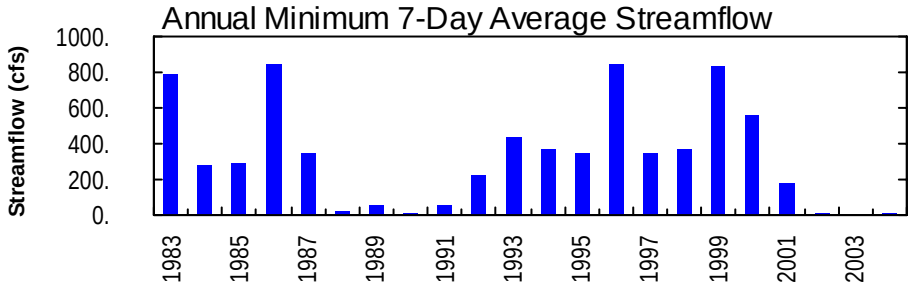
Latitude: 40°39'29" Longitude: 099°05'09" Hydrologic Unit Code: 10200101

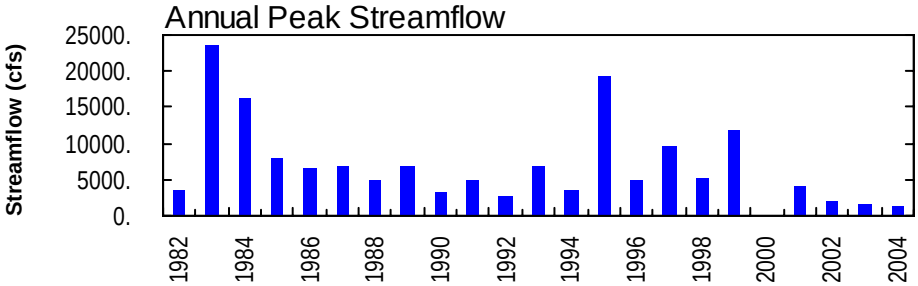
Kearney County Datum: 2134.11 feet Drainage Area: 57260 mi²











06770200 PLATTE RIVER NEAR KEARNEY, NE

LOCATION—Lat 40°39'32", long 99°05'08", in SE 1/4 SE 1/4 sec.14, T.8 N., R.16 W., Kearney County, Hydrologic Unit 10200101, on right bank near downstream side of bridge on State Highway 44, 2 mi south of Kearney, and at mile 117.

DRAINAGE AREA—57,260 mi^2, of which about 52,540 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—January 1982 to current year.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 2,134.11 ft above sea level. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, 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.

06770200 PLATTE RIVER NEAR KEARNEY, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	151	321	672	e401	1030	511	281	26	13	50	15
2	97	156	417	447	e287	1100	422	261	23	33	50	e13
3	96	185	506	597	e443	902	367	228	20	40	55	12
4	91	189	506	e414	e581	641	338	225	16	32	61	12
5	93	188	556	e237	e474	866	333	207	13	66	51	17
6	94	189	620	e290	e364	894	308	185	11	153	40	24
7	98	211	427	e367	e401	582	302	167	9.0	280	35	14
8	113	188	259	e430	e366	549	322	165	7.1	200	39	10
9	115	185	471	e468	e407	778	331	180	6.7	216	29	8.3
10	123	187	643	e569	e454	921	341	312	8.3	176	26	7.6
11	135	185	818	e419	e492	860	312	251	7.0	184	29	7.4
12	129	181	688	e463	e393	874	288	198	6.2	172	28	6.4
13	124	266	593	e604	e643	925	271	215	5.5	142	26	5.6
14	132	682	339	e655	e452	549	283	204	4.7	118	26	6.6
15	163	714	324	529	e429	501	285	182	7.5	97	25	28
16	138	754	484	678	e322	763	296	177	18	74	47	23
17	134	350	450	733	e492	782	289	192	17	62	40	17
18	136	402	329	455	e569	510	260	203	16	54	36	18
19	135	380	514	403	e626	440	269	199	18	44	28	18
20	149	401	634	713	e758	721	320	199	19	44	24	22
21	141	397	425	659	e922	454	292	168	19	45	22	23
22	157	510	326	765	e989	432	296	117	16	43	22	50
23	139	276	482	728	747	417	308	123	12	45	24	94
24	129	402	605	723	677	430	329	120	11	51	27	94
25	145	594	637	790	817	686	375	77	9.9	54	25	102
26	133	637	409	e458	1140	535	354	56	10	42	23	117
27	138	553	549	e263	860	666	342	48	13	32	25	106
28	146	325	479	e381	954	503	334	42	11	29	20	106
29	145	392	370	e433	966	452	318	39	9.6	28	19	100
30	155	547	509	e415	---	426	304	41	10	38	18	101
31	152	---	615	e443	---	392	---	31	---	45	17	---
TOTAL	3967	10777	15305	16201	17426	20581	9700	5093	380.5	2652	987	1177.9
MEAN	128	359	494	523	601	664	323	164	12.7	85.5	31.8	39.3
MAX	163	754	818	790	1140	1100	511	312	26	280	61	117
MIN	91	151	259	237	287	392	260	31	4.7	13	17	5.6
AC-FT	7870	21380	30360	32130	34560	40820	19240	10100	755	5260	1960	2340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004, BY WATER YEAR (WY)

MEAN	1581	1637	1755	1960	2250	2344	2175	2291	3077	1654	1174	1671
MAX	3859	4717	4404	4487	6612	7148	9535	11770	17660	10910	6393	7903
(WY)	1987	1985	1985	1984	1984	1984	1984	1984	1983	1983	1983	1983
MIN	128	359	494	523	496	664	323	164	12.7	33.5	9.51	24.9
(WY)	2004	2004	2004	2004	2003	2004	2004	2004	2004	2003	2003	2003

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1983 - 2004	
ANNUAL TOTAL	130132.7		104247.4			
ANNUAL MEAN	357		285		1960	
HIGHEST ANNUAL MEAN					5418	1983
LOWEST ANNUAL MEAN					285	2004
HIGHEST DAILY MEAN	1220	Apr 18	1140	Feb 26	22300	Jun 29 1983
LOWEST DAILY MEAN	3.9	Sep 8	4.7	Jun 14	3.0	Sep 7 1990
ANNUAL SEVEN-DAY MINIMUM	4.6	Sep 3	6.5	Jun 8	4.6	Sep 3 2003
MAXIMUM PEAK FLOW			*1470	Mar 2	**23700	Jun 29 1983
MAXIMUM PEAK STAGE			***4.09	Feb 13	***8.62	Feb 24 1994
ANNUAL RUNOFF (AC-FT)	258100		206800		1420000	
10 PERCENT EXCEEDS	795		674		3820	
50 PERCENT EXCEEDS	320		202		1430	
90 PERCENT EXCEEDS	12		17		286	

e Estimated
* Stage 3.69 ft
** Stage 7.42 ft
*** Backwater from ice

06770253 PLATTE RIVER NEAR NEWARK, NE

LOCATION—Lat 40°40'06", long 98°54'53", in NE 1/4 NE 1/4 sec.17, T.8 N., R.14 W., Buffalo County, Hydrologic Unit 10200101, on left bank, at Audubon Society Trust, 0.4 mi south of county road, 2 mi east of State Highway 10, and 3 mi east of Newark.

PERIOD OF RECORD—April 1999 to current year (stage record only).

GAGE—Water-stage recorder. Datum of gage is 2,076.42 ft above sea level.

REMARKS—Records good, except for Dec. 29, Mar. 16–Apr. 27, and Jun 8–16, which are poor. Channel dry Oct. 1–8, Jul. 1–2, Aug. 4, and Aug. 6–Sep. 24.

EXTREMES FOR CURRENT YEAR—Maximum instantaneous gage height, 3.98 ft Feb. 26; minimum instantaneous gage height, 0.74 ft (point of zero flow) on many days.

Gage height, feet
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1.95	2.37	2.42	3.17	2.69	2.25	2.12	1.40	0.78	1.28	---
2	---	1.95	2.21	2.38	3.22	2.77	2.33	2.05	1.37	0.79	1.27	---
3	---	2.01	2.36	2.22	3.07	2.60	2.25	2.02	1.35	0.86	1.23	---
4	---	2.02	2.39	2.88	3.26	2.53	2.21	1.99	1.33	1.05	---	---
5	---	2.00	2.58	2.83	3.31	2.55	2.20	1.96	1.30	1.39	1.21	---
6	---	2.01	2.70	2.71	3.39	2.61	2.17	1.91	1.28	1.61	---	---
7	---	2.03	2.66	2.80	3.40	2.44	2.17	1.87	1.24	1.83	---	---
8	---	2.03	2.27	3.12	3.22	2.40	2.16	1.86	---	1.90	---	---
9	1.66	2.01	2.40	3.25	3.31	2.42	2.16	1.86	---	1.98	---	---
10	1.72	2.00	2.61	3.20	3.21	2.59	2.16	2.11	---	1.92	---	---
11	1.84	2.00	2.66	3.22	3.58	2.52	2.15	2.07	---	1.88	---	---
12	1.84	1.98	2.60	3.10	3.42	2.54	2.14	1.99	---	1.87	---	---
13	1.84	1.98	2.55	3.20	3.66	2.54	2.13	2.00	---	1.81	---	---
14	1.85	2.26	2.30	3.38	3.69	2.40	2.14	1.96	---	1.72	---	---
15	1.88	2.53	2.23	3.03	3.61	2.30	2.13	1.94	---	1.66	---	---
16	1.89	2.60	2.23	2.79	3.40	2.39	2.12	1.93	---	1.59	---	---
17	1.88	2.48	2.28	2.65	3.44	2.43	2.13	1.92	1.14	1.54	---	---
18	1.87	2.28	2.41	2.34	3.76	2.41	2.13	1.93	1.15	1.49	---	---
19	1.87	2.35	2.41	2.23	3.72	2.31	2.10	1.92	1.16	1.45	---	---
20	1.87	2.41	2.57	2.29	3.62	2.39	2.18	1.91	1.15	1.41	---	---
21	1.88	2.28	2.91	2.41	3.50	2.33	2.17	1.90	1.17	1.37	---	---
22	1.89	2.49	2.74	2.60	3.41	2.26	2.18	1.81	1.14	1.34	---	---
23	1.91	2.46	2.74	2.54	2.82	2.23	2.19	1.77	1.09	1.35	---	---
24	1.90	2.54	2.93	2.47	2.48	2.21	2.26	1.74	1.01	1.41	---	---
25	1.89	2.86	3.10	2.48	2.43	2.27	2.30	1.70	0.97	1.42	---	1.27
26	1.93	2.74	2.95	2.54	3.17	2.39	2.28	1.64	0.96	1.40	---	1.39
27	1.92	2.64	2.79	2.43	2.63	2.44	2.26	1.58	0.96	1.31	---	1.48
28	1.92	2.43	2.88	2.43	2.77	2.44	2.24	1.53	0.91	1.29	---	1.52
29	1.94	2.29	---	2.63	2.68	2.35	2.19	1.50	0.86	1.27	---	1.49
30	1.93	2.40	2.15	2.75	---	2.29	2.16	1.49	0.82	1.28	---	1.50
31	1.94	---	2.32	2.84	---	2.26	---	1.46	---	1.30	---	---
MAX	---	2.86	---	3.38	3.76	2.77	2.33	2.12	---	1.98	---	---
MIN	---	1.95	---	2.22	2.43	2.21	2.10	1.46	---	0.78	---	---

06770375 PLATTE RIVER NEAR PROSSER, NE

LOCATION—Lat 40°43'45", long 98°38'07", in SW 1/4 SE 1/4 sec.23, T.9 N., R. 12 W., Hall County, Hydrologic Unit 10200101, on right bank, at Platte River Whooping Crane Maintenance Trust, 0.4 mi north of Denman road, 3 mi west of Wood River road, and 3.5 mi northwest of Prosser.

PERIOD OF RECORD—April 1999 to current year (stage record only).

GAGE—Water-stage recorder. Datum of gage is 1,973.08 ft above sea level.

REMARKS—Records good, except during missing record period.

EXTREMES FOR CURRENT YEAR—Maximum observed gage height, 3.10 ft Feb. 10; may have been higher during missing record period; minimum instantaneous gage height, 0.64 ft Sept. 14.

Gage height, feet
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.08	1.44	2.28	---	---	---	---	1.95	1.43	1.32	1.33	1.27
2	1.00	1.48	2.11	---	---	---	---	1.92	1.43	1.36	1.31	1.13
3	0.96	1.59	2.15	---	---	---	---	1.89	1.43	1.38	1.30	1.06
4	0.92	1.63	2.25	---	---	---	---	1.92	1.39	1.51	1.28	1.02
5	0.88	1.65	2.30	---	---	---	---	1.90	1.37	1.70	1.26	1.06
6	0.87	1.66	2.31	---	---	---	---	1.85	1.36	1.83	1.24	1.17
7	0.83	1.67	2.42	---	---	---	---	1.78	1.33	1.76	1.23	1.21
8	0.77	1.68	2.29	---	---	---	1.95	1.74	1.30	1.91	1.25	1.11
9	0.73	1.71	1.82	---	---	---	1.95	1.75	1.29	2.09	1.26	1.04
10	0.69	1.70	2.29	---	---	---	1.98	1.99	1.28	2.08	1.28	0.96
11	0.81	1.70	2.48	---	---	---	1.96	1.96	1.25	2.03	1.33	0.93
12	0.89	1.72	2.55	---	---	---	1.94	1.95	1.23	2.01	1.29	0.88
13	0.92	1.70	2.61	---	---	---	1.94	1.98	1.22	1.98	1.30	0.83
14	0.94	1.74	2.72	---	---	---	1.93	1.92	1.23	1.93	1.30	0.75
15	0.93	2.11	2.67	---	---	---	1.94	1.88	1.38	1.87	1.31	1.09
16	0.94	2.31	2.57	---	---	---	1.93	1.85	1.48	1.80	1.34	1.10
17	0.96	2.38	2.51	---	---	---	1.89	1.84	1.50	1.71	1.37	1.05
18	0.95	2.16	2.56	---	---	---	1.87	1.82	1.51	1.64	1.43	1.08
19	0.95	2.14	---	---	---	---	1.88	1.83	1.56	1.54	1.42	1.08
20	0.94	2.14	---	---	---	---	1.94	1.84	1.64	1.51	1.45	1.08
21	0.93	2.14	---	---	---	---	1.99	1.85	1.72	1.49	1.44	1.10
22	0.94	2.12	---	---	---	---	1.95	1.77	1.74	1.53	1.40	1.32
23	0.97	1.95	---	---	---	---	1.99	1.69	1.68	1.46	1.40	1.74
24	1.00	2.18	2.23	---	---	---	2.02	1.64	1.67	1.48	1.35	1.53
25	1.03	2.17	2.36	---	---	---	2.07	1.61	1.60	1.51	1.26	1.45
26	1.06	2.39	2.41	---	---	---	2.03	1.58	1.57	1.49	1.20	1.47
27	1.27	2.80	2.17	---	---	---	1.98	1.60	1.53	1.44	1.21	1.52
28	1.33	2.93	2.23	---	---	---	1.94	1.53	1.48	1.44	1.34	1.68
29	1.34	2.70	---	---	---	---	1.94	1.48	1.40	1.41	1.39	1.66
30	1.39	2.29	---	---	---	---	1.95	1.59	1.32	1.39	1.39	1.70
31	1.41	---	---	---	---	---	---	1.50	---	1.36	1.35	---
MAX	1.41	2.93	---	---	---	---	---	1.99	1.74	2.09	1.45	1.74
MIN	0.69	1.44	---	---	---	---	---	1.48	1.22	1.32	1.20	0.75

06770470 PLATTE RIVER NEAR DONIPHAN, NE

LOCATION—Lat 40°47'18", long 98°26'17", in SE 1/4 SE 1/4 sec.33, T.10 N., R.10 W., Hall County, Hydrologic Unit 10200101, on left bank, at Platte River Whooping Crane Maintenance Trust, 3.2 mi west of U.S. Highway 281, and 3 mi northwest of Doniphan.

PERIOD OF RECORD—April 1999 to current year (stage record only).

GAGE—Water-stage recorder. Datum of gage is 1899.80 ft above sea level.

REMARKS—Records good, except those for periods around the transition from dry to flowing, which are fair. Channel was dry Oct. 1–Nov. 5, and Sep. 4–23.

EXTREMES FOR CURRENT YEAR—Maximum instantaneous gage height, 3.29 ft Jan. 18; minimum instantaneous gage height, 0.92 ft (point of zero flow) on many days.

Gage height, feet
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	2.08	2.16	2.72	2.49	1.92	1.80	1.39	1.30	1.33	1.36
2	---	---	2.05	2.17	2.85	2.45	1.93	1.76	1.36	1.43	1.31	1.24
3	---	---	1.93	2.15	2.92	2.47	1.95	1.71	1.37	1.38	1.29	0.99
4	---	---	2.06	2.13	2.73	2.37	1.89	1.71	1.36	1.37	1.27	---
5	---	---	2.36	2.18	2.89	2.29	1.86	1.70	1.35	1.51	1.24	---
6	---	1.55	2.34	2.24	2.96	2.30	1.85	1.67	1.34	1.66	1.24	---
7	---	1.57	2.31	2.22	2.97	2.30	1.86	1.61	---	1.63	1.24	---
8	---	1.60	2.36	2.13	3.03	2.17	1.86	1.59	---	1.66	1.22	---
9	---	1.66	1.79	2.20	3.01	2.10	1.86	1.58	---	1.86	1.19	---
10	---	1.66	1.59	2.33	3.04	2.17	1.88	1.77	---	1.89	1.29	---
11	---	1.66	1.48	2.50	2.99	2.30	1.86	1.80	---	1.86	1.40	---
12	---	1.65	2.09	2.61	3.07	2.30	1.87	1.72	---	1.82	1.37	---
13	---	1.66	2.27	2.53	3.03	2.31	1.84	1.74	---	1.80	1.28	---
14	---	1.67	2.33	2.48	3.17	2.30	1.81	1.73	---	1.77	1.27	---
15	---	1.78	2.34	2.56	3.21	2.18	1.79	1.69	---	1.74	1.27	---
16	---	2.13	2.19	2.45	3.18	2.10	1.77	1.67	---	1.69	1.31	---
17	---	2.26	2.06	2.38	3.07	2.18	1.74	1.65	1.36	1.62	1.33	---
18	---	2.17	2.15	2.92	3.07	2.21	1.73	1.68	1.40	1.57	1.37	---
19	---	1.94	2.10	2.68	3.21	2.13	1.71	1.66	1.39	1.52	1.49	---
20	---	1.99	1.97	2.76	3.19	2.04	1.75	1.65	1.41	1.48	1.55	---
21	---	2.02	2.08	2.90	3.17	2.12	1.81	1.63	1.47	1.44	1.54	---
22	---	1.94	2.21	2.87	3.07	2.02	1.81	1.60	1.49	1.47	1.50	---
23	---	1.95	2.00	2.74	3.05	1.98	1.83	1.53	1.48	1.43	1.48	---
24	---	1.78	1.91	2.55	2.88	1.95	1.88	1.49	1.47	1.45	1.53	1.52
25	---	1.62	2.09	2.51	2.63	1.92	1.91	1.46	1.45	1.45	1.41	1.46
26	---	1.88	2.19	2.08	2.55	2.00	1.87	1.45	1.42	1.43	1.28	1.43
27	---	2.34	2.09	2.19	2.81	2.08	1.85	1.45	1.42	1.40	1.16	1.48
28	---	2.25	1.97	2.09	2.64	2.12	1.84	1.44	1.38	1.47	1.21	1.56
29	---	2.22	2.07	2.22	2.49	2.04	1.82	1.43	1.35	1.47	1.38	1.57
30	---	2.08	1.93	2.49	---	1.98	1.80	1.46	1.32	1.39	1.44	1.57
31	---	---	1.95	2.61	---	1.95	---	1.43	---	1.36	1.43	---
MAX	---	---	2.36	2.92	3.21	2.49	1.95	1.80	---	1.89	1.55	---
MIN	---	---	1.48	2.08	2.49	1.92	1.71	1.43	---	1.30	1.16	---

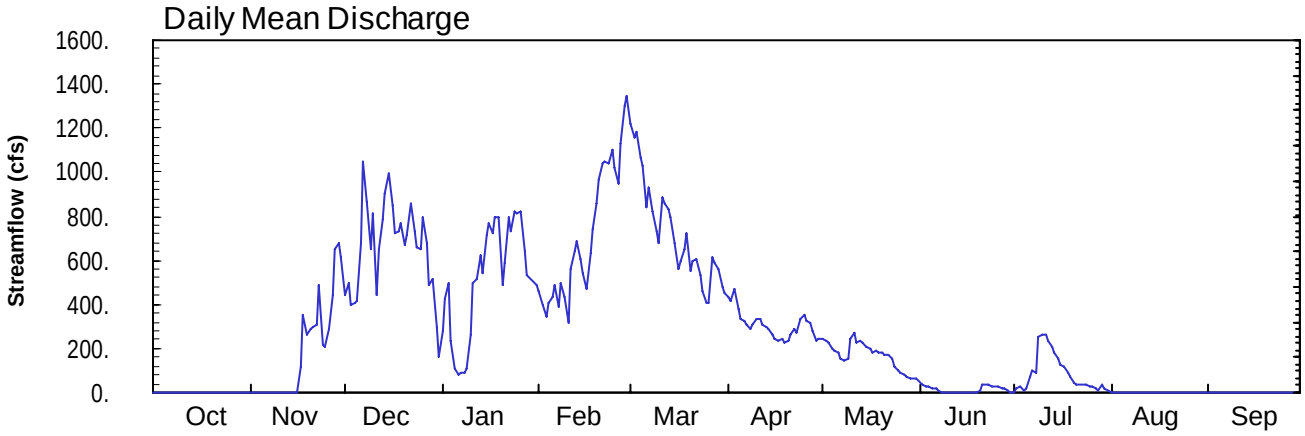
2004 Water Year

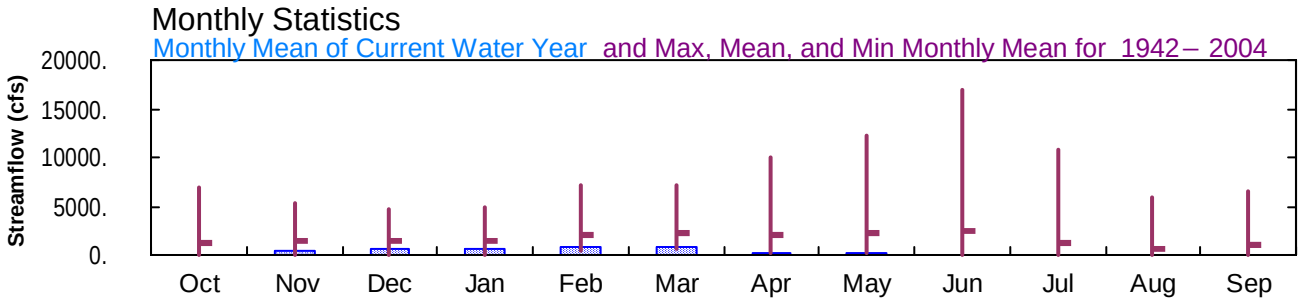
PLATTE RIVER BASIN

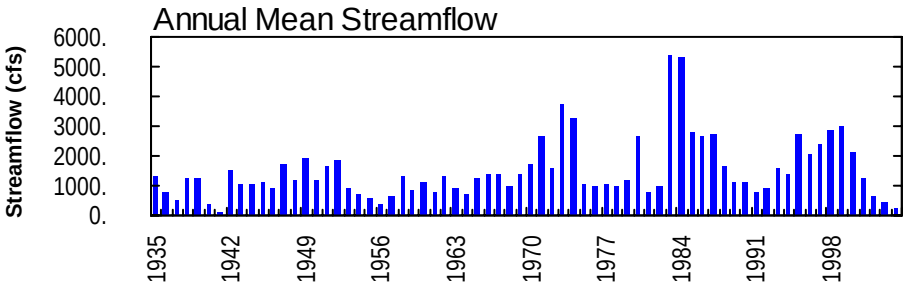
06770500 PLATTE RIVER NEAR GRAND ISLAND, NEBR.

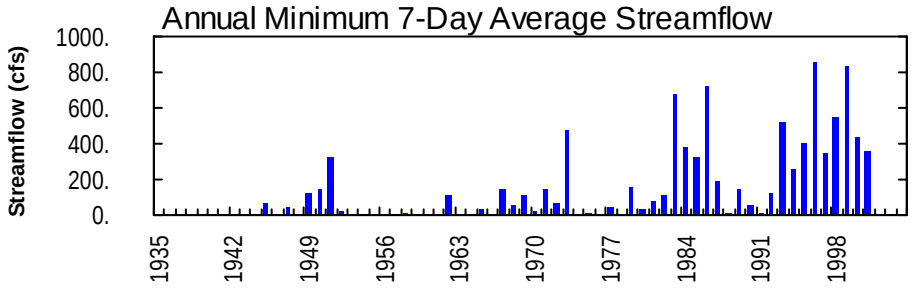
Latitude: 40° 52 ' 28" Longitude: 098° 16 ' 54" Hydrologic Unit Code: 10200101

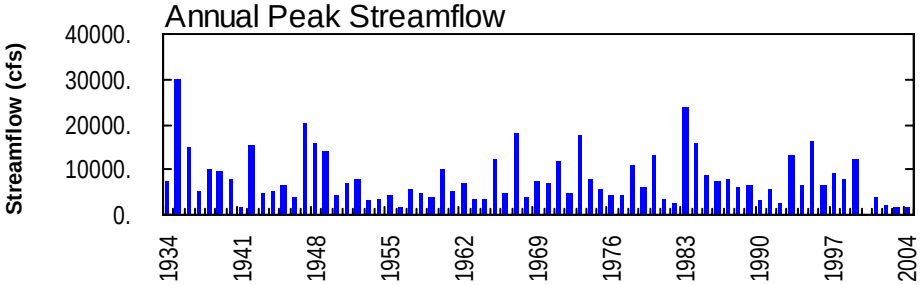
Merrick County Datum: 1831.90 feet Drainage Area: 57650 mi²











06770500 PLATTE RIVER NEAR GRAND ISLAND, NE

LOCATION—Lat 40°52'28", long 98°16'54", in SW 1/4 SW 1/4 sec.31, T.11 N., R.8 W., Merrick County, Hydrologic Unit 10200101, southeast of Grand Island, and at mile 70.0.

DRAINAGE AREA—57,650 mi^2, of which about 52,940 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—October 1933 to current year.

REVISED RECORDS—WSP 956: 1935. WSP 1390: 1942. WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,829.90 ft above sea level. (Nebraska Department of Highway's benchmark). Prior to Oct. 23, 1933, nonrecording gage at bridge 68 ft downstream, and Oct. 23, to Aug. 19, 1980, water-stage recorder at site 90 ft downstream, all at same datum. Datum lowered 2.00 ft on Aug. 22, 2002. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs (since storage in Lake McConaughy in 1942), power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

EXTREMES OUTSIDE OF REGULATED PERIODS—Maximum discharge, 30,000 ft^3/s June 6, 1935, gage height 5.99 ft, datum then in use, from rating curve extended above 18,000 ft^3/s; no flow at times during 1934–41.

06770500 PLATTE RIVER NEAR GRAND ISLAND, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	444	281	e458	1220	438	246	44	0.01	1.6	0.00
2	0.00	0.00	496	428	e396	1160	419	235	33	16	0.08	0.00
3	0.00	0.00	396	501	e347	1180	469	223	27	25	0.00	0.00
4	0.00	0.00	408	e238	e403	1070	379	197	23	11	0.00	0.00
5	0.00	0.00	413	e108	e436	1030	338	190	18	21	0.00	0.00
6	0.00	0.00	677	e77	e484	842	321	177	14	69	0.00	0.00
7	0.00	0.00	e1050	e92	e389	928	303	157	9.5	98	0.00	0.00
8	0.00	0.00	e867	e90	e498	827	292	143	3.6	93	0.00	0.00
9	0.00	0.00	647	e108	e434	728	303	152	1.1	251	0.00	0.00
10	0.00	0.00	814	e264	e315	682	337	248	0.37	263	0.00	0.00
11	0.00	0.00	445	e493	e564	883	331	269	0.03	265	0.00	0.00
12	0.00	0.00	649	e518	e641	862	309	225	0.00	238	0.00	0.00
13	0.00	0.00	789	e627	e686	830	298	236	0.00	212	0.00	0.00
14	0.00	0.00	907	e539	e607	794	288	229	0.00	184	0.00	0.00
15	0.00	0.00	998	e718	e538	674	262	205	0.00	154	0.00	0.00
16	0.00	0.00	853	e764	e470	560	244	196	0.00	131	0.00	0.00
17	0.00	116	726	e721	e633	599	238	177	0.00	113	0.00	0.00
18	0.00	353	736	e797	e741	654	247	189	0.00	89	0.00	0.00
19	0.00	262	766	e794	e855	724	222	182	0.00	70	0.00	0.00
20	0.00	288	670	e489	e965	552	233	180	13	48	0.00	0.00
21	0.00	294	713	e590	e1040	601	262	175	33	34	0.00	0.00
22	0.00	304	862	e798	e1050	605	291	175	33	34	0.00	0.00
23	0.00	492	733	e736	e1040	530	269	151	34	36	0.00	0.00
24	0.00	213	657	e819	e1100	462	335	122	31	33	0.00	0.00
25	0.00	212	652	e811	e1020	405	351	99	29	31	0.00	0.00
26	0.00	286	798	e819	e949	406	328	90	23	23	0.00	0.00
27	0.00	444	677	e646	e1130	614	313	81	22	17	0.00	0.00
28	0.00	655	492	e532	e1300	589	277	75	14	12	0.00	0.00
29	0.00	674	518	e516	1350	558	237	62	7.1	39	0.00	0.00
30	0.00	613	302	e504	---	477	243	61	1.4	19	0.00	0.00
31	0.00	---	161	e489	---	449	---	59	---	8.9	0.00	---
TOTAL	0.00	5206.00	20316	15907	20839	22495	9177	5206	414.10	2637.91	1.68	0.00
MEAN	0.00	174	655	513	719	726	306	168	13.8	85.1	0.05	0.00
MAX	0.00	674	1050	819	1350	1220	469	269	44	265	1.6	0.00
MIN	0.00	0.00	161	77	315	405	222	59	0.00	0.01	0.00	0.00
AC-FT	0.00	10330	40300	31550	41330	44620	18200	10330	821	5230	3.3	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, BY WATER YEAR (WY)

MEAN	1272	1357	1393	1498	1986	2337	2018	2210	2428	1147	598	942
MAX	6970	5250	4607	4955	7065	7051	9906	12190	17000	10810	5865	6575
(WY)	1974	1985	1985	1984	1984	1984	1984	1984	1983	1983	1983	1983
MIN	0.00	0.00	0.00	37.0	418	702	306	148	13.8	0.00	0.00	0.00
(WY)	1942	1942	1942	1942	1942	2003	2004	1955	2004	1953	1953	1953

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1942 – 2004a	
ANNUAL TOTAL	152757.20		102199.69			
ANNUAL MEAN	419		279		1595	
HIGHEST ANNUAL MEAN					5380	1983
LOWEST ANNUAL MEAN					279	2004
HIGHEST DAILY MEAN	1430	May 4	1350	Feb 29	23500	Jun 30 1983
LOWEST DAILY MEAN	0.00	Jul 25	*0.00	Oct 1	*0.00	Oct 1 1941
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 25	0.00	Oct 1	0.00	Oct 1 1941
MAXIMUM PEAK FLOW			**1720	Feb 29	***23900	Jun 30 1983
MAXIMUM PEAK STAGE			****5.71	Feb 21	*****6.16	Mar 27 1960
ANNUAL RUNOFF (AC-FT)	303000		202700		1155000	
10 PERCENT EXCEEDS	991		794		3190	
50 PERCENT EXCEEDS	416		175		1140	
90 PERCENT EXCEEDS	0.00		0.00		119	

e	Estimated
a	Since beginning of storage in Lake McConaughy
*	No flow at times in many years
**	Stage 4.34 ft
***	Stage 5.97 ft, datum then in use
****	Backwater from ice
*****	Backwater from ice, datum then in use

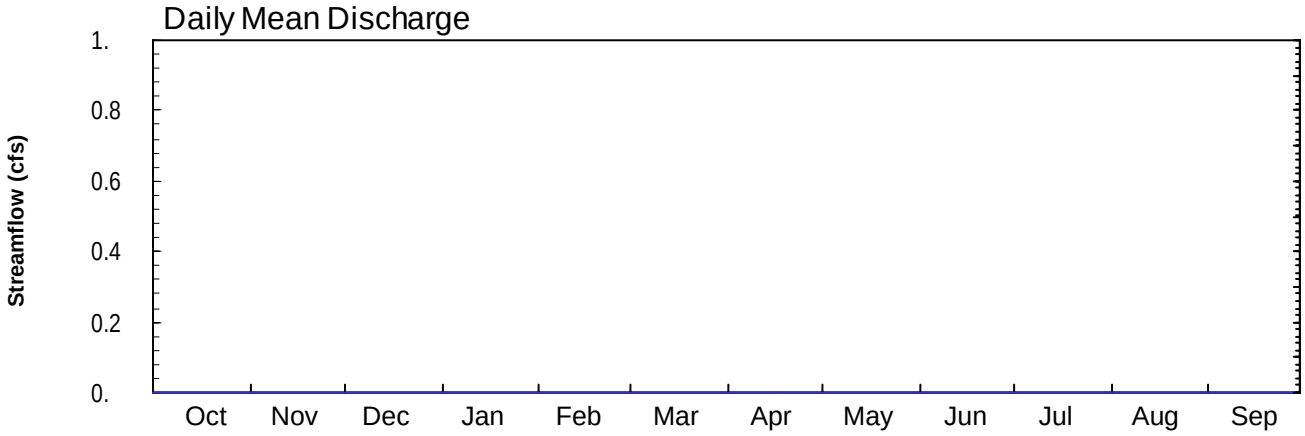
2004 Water Year

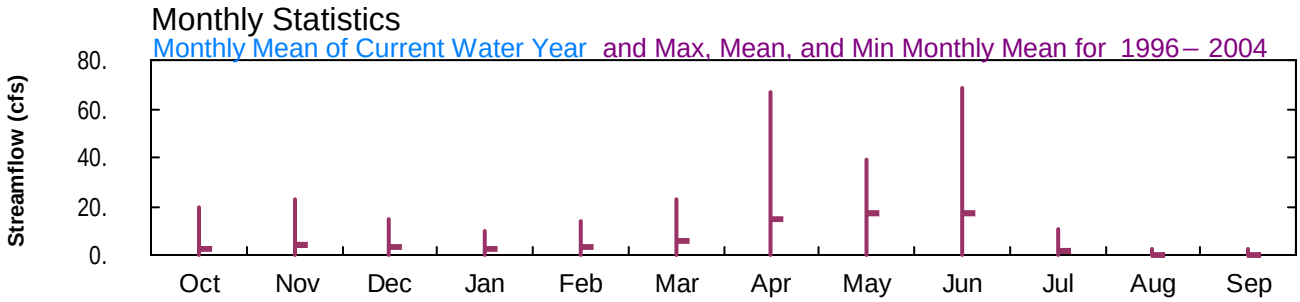
PLATTE RIVER BASIN

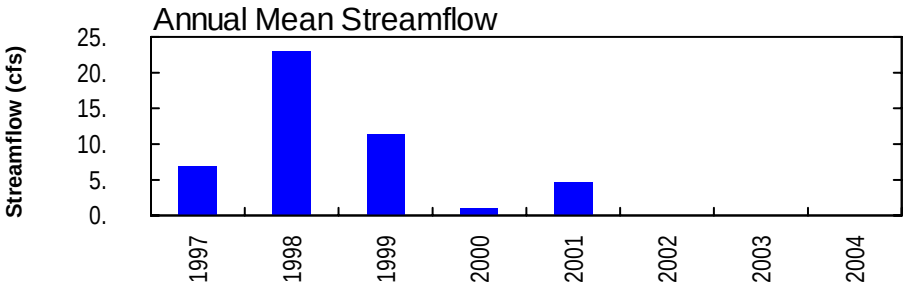
06772775 WARM SLOUGH NR CENTRAL CITY, NE

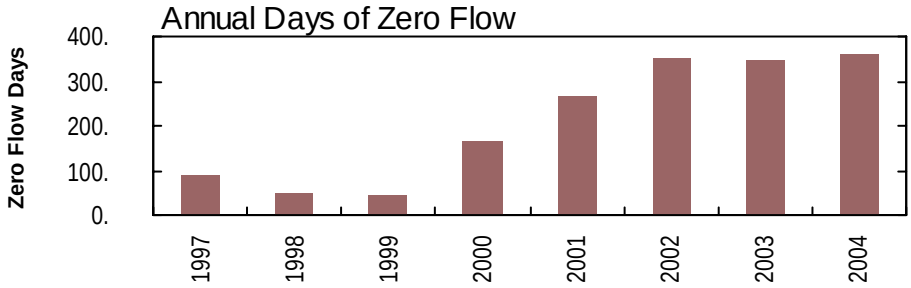
Latitude: 41°05'26" Longitude: 098°04'39" Hydrologic Unit Code: 10200103

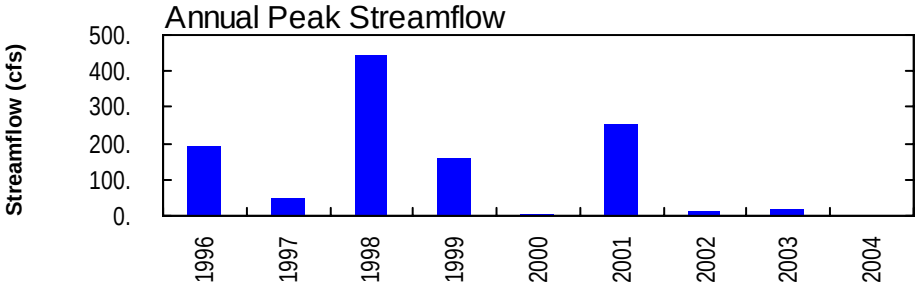
Merrick County Datum: 1718 feet Drainage Area: mi^2

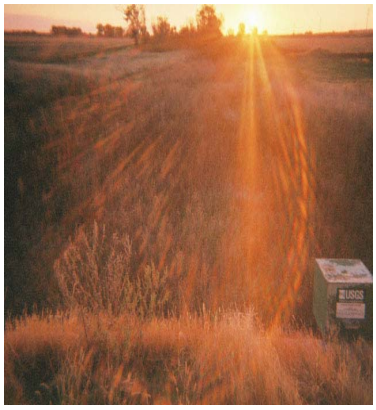












06772775 WARM SLOUGH NEAR CENTRAL CITY, NE

LOCATION—Lat 41°05'27", long 98°04'39", in SW 1/4 SW 1/4 sec.13, T.11 N., R.7 W., Merrick County, Hydrologic Unit 10200103, on downstream side of county road bridge, 4 mi southwest of Central City.

PERIOD OF RECORD—May 1996 to current year.

REVISED RECORDS—WSP 1310: 1902, 1906-7, 1948(P). WSP 1440: 1903-4. WDR CO-86-1: Drainage area.

GAGE—Water-stage recorder. Elevation of gage is 1,718 ft above sea level.

REMARKS—Records good.

06772775 WARM SLOUGH NEAR CENTRAL CITY, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	e0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	e0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	e0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	e0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	2.44	4.33	2.93	2.27	3.45	5.56	14.9	17.2	16.9	1.74	0.38	0.25
MAX	19.4	23.1	14.4	9.50	14.0	23.2	66.7	39.1	68.2	10.8	2.73	2.26
(WY)	1998	1998	1998	1998	1998	1998	1998	2001	1998	1999	1997	1997
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1997	2000	2001	2002	2001	2001	1996	2004	2002	2002	1996	1996

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004		
ANNUAL TOTAL	6.87		0.00				
ANNUAL MEAN	0.02		0.00		5.93		
HIGHEST ANNUAL MEAN					23.1		1998
LOWEST ANNUAL MEAN					0.00		2004
HIGHEST DAILY MEAN	3.8	May 19	0.00	Oct 1	413	Apr 8	1998
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Apr 1	1996
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Apr 1	1996
MAXIMUM PEAK FLOW			*		443	Apr 8	1998
MAXIMUM PEAK STAGE			*		8.04	Apr 8	1998
ANNUAL RUNOFF (AC-FT)	14		0.00		4300		
10 PERCENT EXCEEDS	0.00		0.00		15		
50 PERCENT EXCEEDS	0.00		0.00		0.00		
90 PERCENT EXCEEDS	0.00		0.00		0.00		

e Estimated
* No flow for entire year

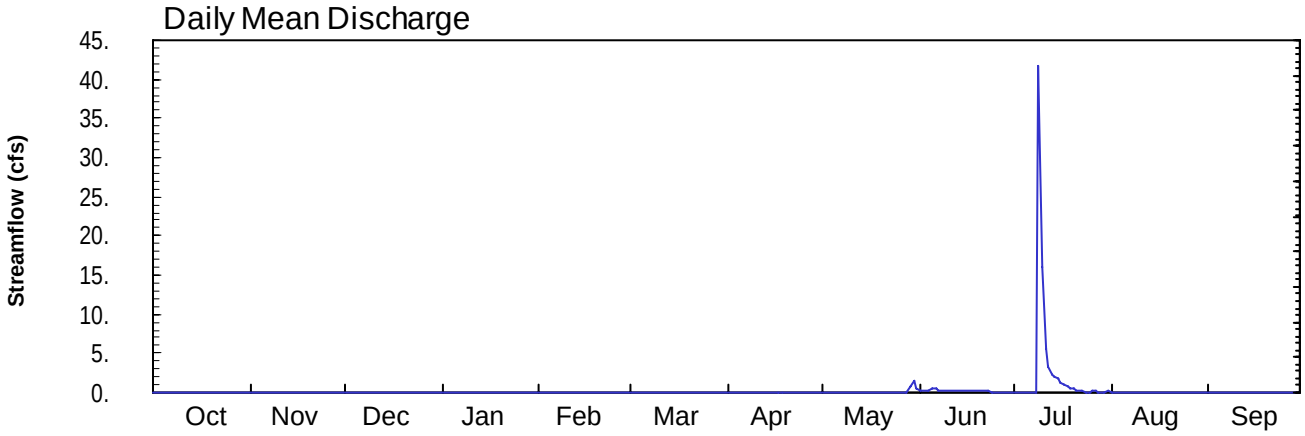
2004 Water Year

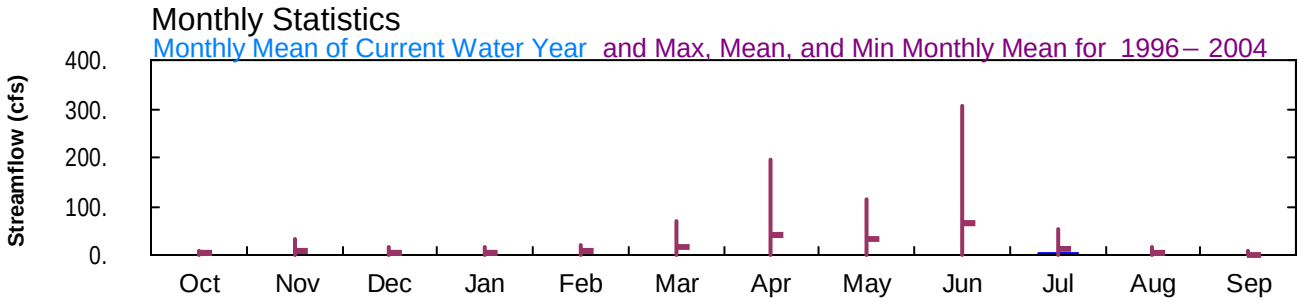
PLATTE RIVER BASIN

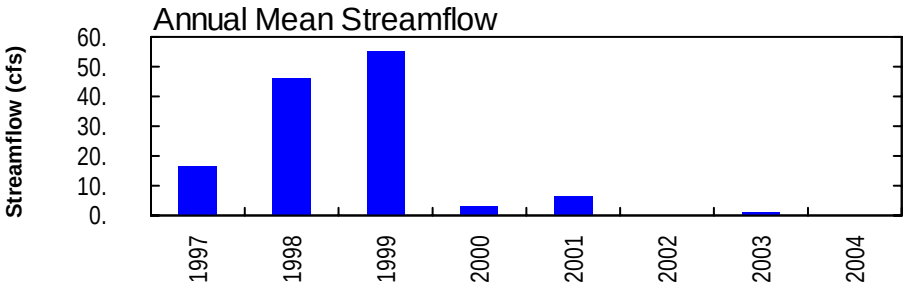
06772898 SILVER CR, AT MI 4, NR SILVER CREEK, NE

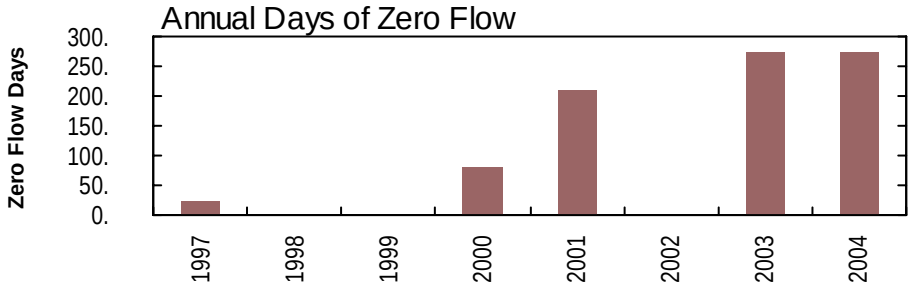
Latitude: 41° 17 ' 50" Longitude: 097° 42 ' 50" Hydrologic Unit Code: 10200103

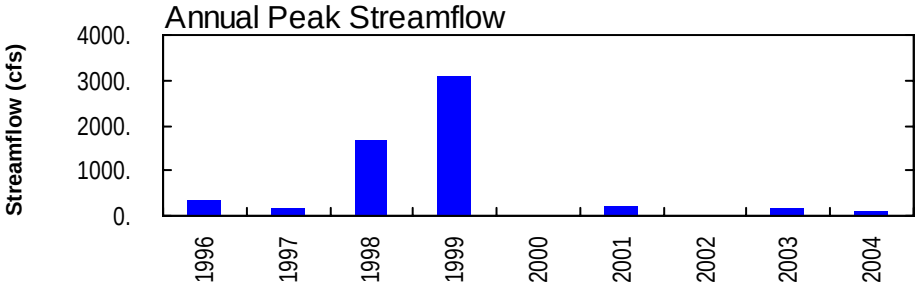
Merrick County Datum: 1556 feet Drainage Area: 160. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06772898 SILVER CREEK, AT MILE 4, NEAR SILVER CREEK, NE

LOCATION—Lat 41°17'51", long 97°42'50", in NW 1/4 SW 1/4 sec.6, T.15 N., R.3 W., Merrick County, Hydrologic Unit 10200103, on downstream side of county road bridge, 3 mi southwest of Silver Creek, and at mile 4.0.

DRAINAGE AREA—160 mi^2, approximately.

PERIOD OF RECORD—April 1996 to September 2001. October 2002 to current year.

REVISED RECORDS—WDR NE-99-1: 1998(M)

GAGE—Water-stage recorder. Elevation of gage is 1,556 ft above sea level.

REMARKS—Records fair except for estimated daily discharges, which are poor.

06772898 SILVER CREEK, AT MILE 4, NEAR SILVER CREEK, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.35	0.05	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.34	0.10	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.29	0.06	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.30	0.03	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.46	0.05	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.44	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.31	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.27	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.29	42	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.33	16	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.35	5.5	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	3.3	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	2.2	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	2.0	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	1.8	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	1.4	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.95	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.73	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.56	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.45	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.29	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.21	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.19	0.17	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.09	0.10	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.07	0.12	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.05	0.14	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.14	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.02	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.69	0.11	0.01	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.05	1.6	0.08	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.52	---	0.17	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.17	3.27	6.82	78.55	0.00	0.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.23	2.53	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.6	0.46	42	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.3	6.5	14	156	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	2.41	9.54	6.02	5.37	8.03	15.5	41.0	33.7	66.4	10.5	3.38	1.37
MAX	6.44	31.0	16.6	14.6	21.4	68.1	197	113	307	52.6	16.2	7.15
(WY)	1997	1997	1997	1999	1999	1998	1998	1999	1999	1999	1996	1996
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.23	0.04	0.00	0.00
(WY)	2001	2001	2001	2001	2001	2003	2004	2004	2004	2000	2000	2000

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL TOTAL	493.75		88.81			
ANNUAL MEAN	1.35		0.24		16.4	
HIGHEST ANNUAL MEAN					55.5	1999
LOWEST ANNUAL MEAN					0.24	2004
HIGHEST DAILY MEAN	42	May 19	42	Jul 9	2100	Jun 1 1999
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Aug 27 1997
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Aug 27 1997
MAXIMUM PEAK FLOW			91	Jul 9	3070	Jun 1 1999
MAXIMUM PEAK STAGE			5.33	Jul 9	9.11	Jun 1 1999
ANNUAL RUNOFF (AC-FT)	979		176		11900	
10 PERCENT EXCEEDS	4.2		0.19		30	
50 PERCENT EXCEEDS	0.00		0.00		1.8	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

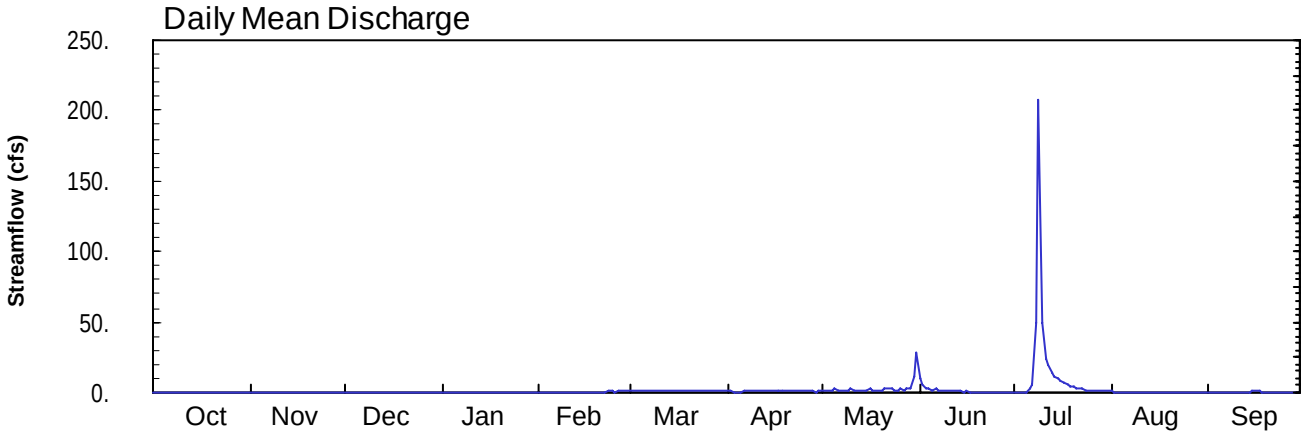
2004 Water Year

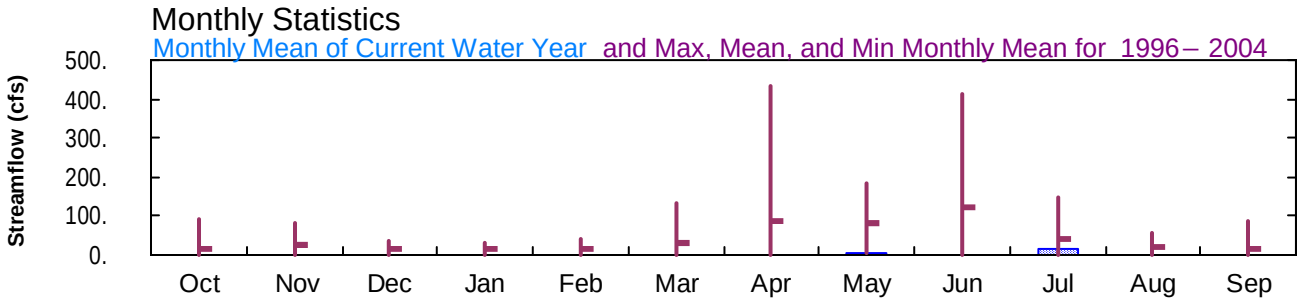
PLATTE RIVER BASIN

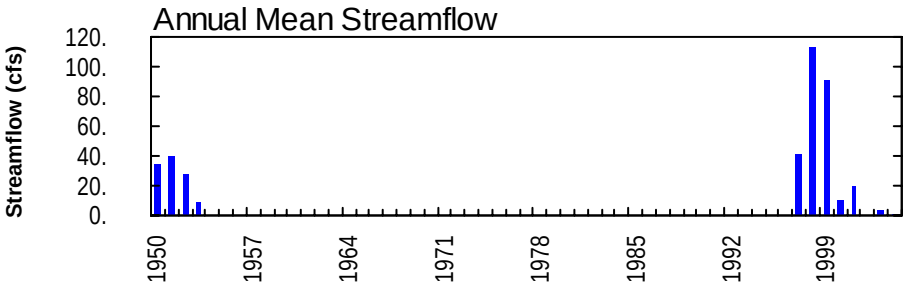
06773500 PRAIRIE CREEK NR SILVER CREEK NEBR

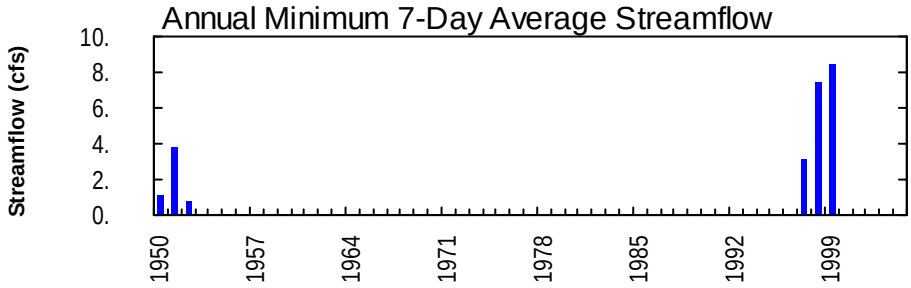
Latitude: 41° 19 ' 43" Longitude: 097° 40 ' 30" Hydrologic Unit Code: 10200103

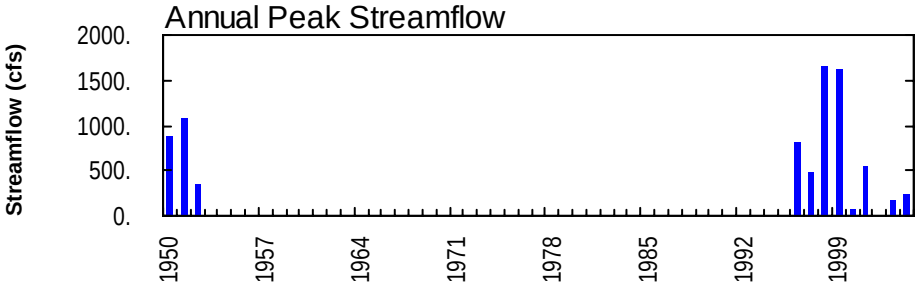
Merrick County Datum: 1550 feet Drainage Area: 494. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06773500 PRAIRIE CREEK NEAR SILVER CREEK, NE

LOCATION (REVISED)—Lat 41°19'43", long 97°40'30", in NW 1/4 SW 1/4 sec.28, T.16 N., R.3 W., Merrick County, Hydrologic Unit 10200103, on the downstream side of bridge on Nebraska Highway 34, 2 mi northwest of Silver Creek.

DRAINAGE AREA—492 mi^2.

PERIOD OF RECORD—August 1949 to September 1953. October 1996 to September 2001. October 2002 to current year.

REVISED RECORDS—WDR NE-97-1: Drainage area.

GAGE—Water-stage recorder. Elevation of gage is 1,550 ft above sea level from topographic map. August 1949 to September 1953 at datum 0.98 ft lower.

REMARKS—Records fair except for estimated daily discharges, which are poor.

06773500 PRAIRIE CREEK NEAR SILVER CREEK, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	e0.48	e0.00	0.00	1.5	0.89	0.93	9.5	0.00	e0.73	0.09
2	0.00	0.00	e0.45	e0.00	0.00	0.98	0.78	1.0	5.0	0.00	e0.45	0.00
3	0.00	0.09	e0.37	e0.00	0.00	1.1	0.64	1.2	3.4	0.00	e0.52	0.00
4	0.00	0.46	e0.35	e0.00	0.00	1.1	0.59	1.5	2.4	0.00	e0.38	0.00
5	0.00	0.42	e0.22	e0.00	0.00	1.5	0.64	2.3	e2.1	0.00	e0.31	0.00
6	0.00	e0.43	e0.38	0.00	0.00	1.4	0.82	1.7	e2.4	e3.0	0.00	0.00
7	0.00	e0.43	e0.47	0.00	0.00	1.5	1.0	1.8	e1.8	e5.0	0.00	0.00
8	0.00	e0.33	e0.46	0.00	0.00	1.7	1.00	1.9	e2.0	e50	0.00	0.00
9	0.00	e0.18	e0.37	0.00	0.00	1.7	1.1	1.9	e1.8	e207	0.00	0.00
10	0.00	e0.18	e0.34	0.00	0.00	1.6	0.91	2.5	e1.7	e50	0.00	0.00
11	0.00	0.00	e0.28	0.00	0.00	1.6	0.94	1.9	e1.6	e25	0.00	0.00
12	0.00	0.00	e0.34	e0.00	0.00	1.8	0.87	1.6	e1.3	e19	0.00	0.00
13	0.00	0.00	e0.39	0.00	0.00	1.9	0.86	1.7	e1.2	e14	0.00	0.00
14	0.00	0.00	e0.53	e0.00	0.00	1.3	0.92	1.8	e1.2	e11	0.00	0.00
15	0.00	0.00	e0.63	e0.00	0.00	1.6	1.1	1.9	e0.46	e9.5	0.00	1.1
16	0.00	0.00	e0.55	e0.00	0.00	1.3	1.2	2.2	e0.71	e8.4	0.00	1.9
17	0.00	0.00	e0.38	e0.00	0.00	1.4	1.3	2.1	e0.08	e7.0	0.00	0.88
18	0.00	0.00	e0.26	e0.00	0.00	1.3	1.7	2.1	0.00	e5.5	0.00	0.23
19	0.00	0.00	e0.17	e0.00	0.00	1.4	1.2	2.0	0.00	e4.8	0.00	0.00
20	0.00	0.00	e0.00	0.00	0.00	1.2	1.4	1.9	0.00	e4.2	0.00	0.00
21	0.00	0.00	e0.00	e0.00	0.13	1.1	1.5	2.1	0.00	e3.5	0.00	0.00
22	0.00	0.00	e0.00	e0.00	0.68	1.1	1.6	2.3	0.00	e3.0	0.00	0.00
23	0.00	0.00	e0.00	e0.00	0.90	1.1	1.2	2.2	0.00	e2.5	0.00	0.11
24	0.00	e0.15	e0.00	e0.00	0.71	1.2	1.5	1.9	0.00	e2.1	0.00	0.42
25	0.00	e0.37	e0.00	e0.00	0.62	1.1	1.4	2.0	0.00	e1.8	0.00	0.18
26	0.00	e0.52	e0.00	0.00	0.76	1.00	1.2	2.2	0.00	e1.6	0.00	0.00
27	0.00	e0.50	e0.00	0.00	1.1	1.2	1.2	2.0	0.00	e1.1	0.00	0.00
28	0.00	e0.31	e0.00	0.00	1.3	0.92	1.2	2.1	0.00	e1.1	0.04	0.00
29	0.00	e0.44	e0.00	0.00	1.6	0.74	0.68	3.1	0.00	e0.87	0.34	0.00
30	0.00	e0.53	e0.00	0.00	---	0.72	0.72	11	0.00	e0.80	0.31	0.00
31	0.00	---	e0.00	0.00	---	0.85	---	29	---	e0.73	0.29	---
TOTAL	0.00	5.34	7.42	0.00	7.80	39.91	32.06	95.83	38.65	442.50	3.37	4.91
MEAN	0.00	0.18	0.24	0.00	0.27	1.29	1.07	3.09	1.29	14.3	0.11	0.16
MAX	0.00	0.53	0.63	0.00	1.6	1.9	1.7	29	9.5	207	0.73	1.9
MIN	0.00	0.00	0.00	0.00	0.00	0.72	0.59	0.93	0.00	0.00	0.00	0.00
AC-FT	0.00	11	15	0.00	15	79	64	190	77	878	6.7	9.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	15.3	24.6	12.9	12.9	15.6	33.1	88.6	82.0	121	41.1	21.6	16.9
MAX	90.0	80.8	36.9	29.7	38.6	133	435	182	415	146	55.3	86.8
(WY)	1998	1998	1998	1998	1998	1998	1998	1999	1999	1999	1999	1997
MIN	0.00	0.18	0.24	0.00	0.20	1.01	1.07	3.09	1.29	1.05	0.06	0.00
(WY)	2004	2004	2004	2004	2001	2003	2004	2004	2004	2003	2000	2000

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL TOTAL	1607.61		677.79			
ANNUAL MEAN	4.40		1.85		40.0	
HIGHEST ANNUAL MEAN					113	1998
LOWEST ANNUAL MEAN					1.85	2004
HIGHEST DAILY MEAN	351	May 5	207	Jul 9	1590	Apr 10 1998
LOWEST DAILY MEAN	0.00	Jan 16	*0.00	Oct 1	*0.00	Jul 27 2000
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 16	0.00	Oct 1	0.00	Aug 7 2000
MAXIMUM PEAK FLOW			250	Jul 9	1640	Apr 10 1998
MAXIMUM PEAK STAGE			**5.37	Jul 9	9.29	Apr 10 1998
ANNUAL RUNOFF (AC-FT)	3190		1340		29000	
10 PERCENT EXCEEDS	8.7		2.1		88	
50 PERCENT EXCEEDS	0.33		0.22		13	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated
* No flow for many days each year
** From high water mark

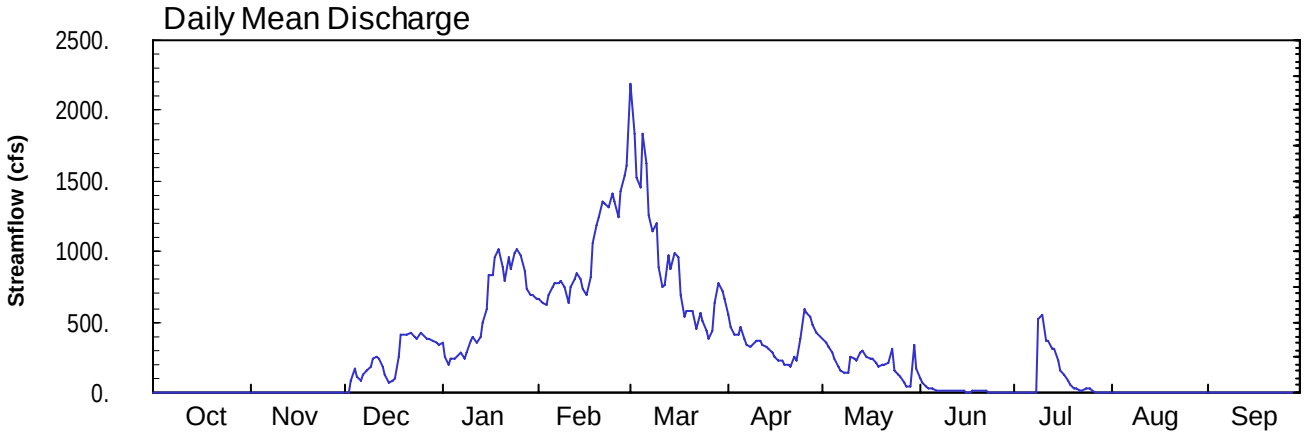
2004 Water Year

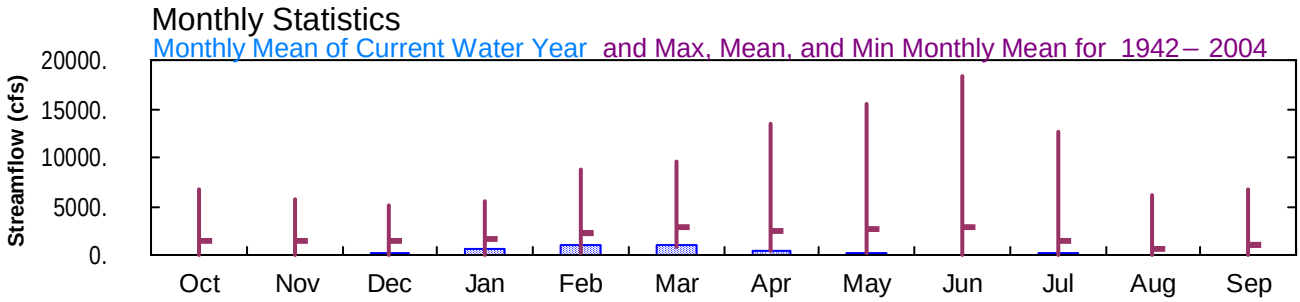
PLATTE RIVER BASIN

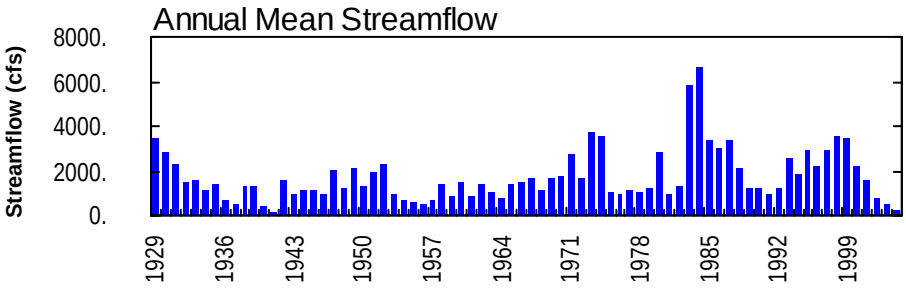
06774000 PLATTE RIVER NEAR DUNCAN, NEBR.

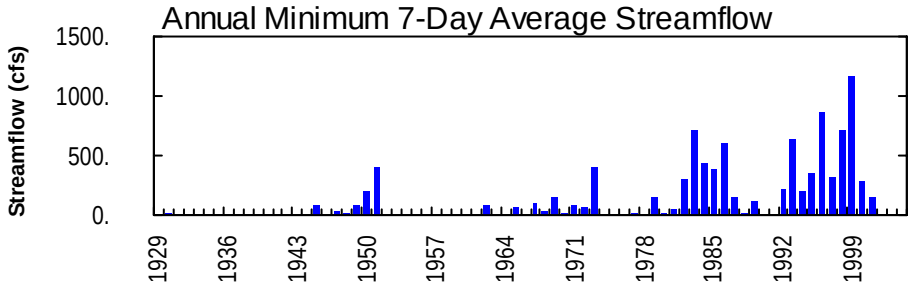
Latitude: 41°22'06" Longitude: 097°29'42" Hydrologic Unit Code: 10200103

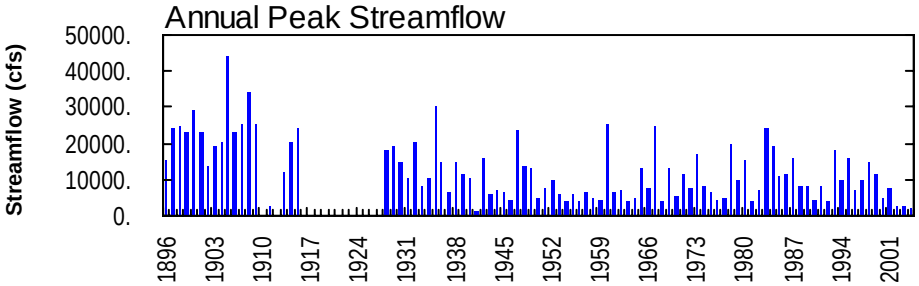
Platte County Datum: 1476.82 feet Drainage Area: 59300 mi²











NO PHOTOS AVAILABLE FOR THIS SITE

06774000 PLATTE RIVER NEAR DUNCAN, NE

LOCATION—Lat 41°22'04", long 97°29'40", in SE 1/4 SW 1/4 sec.12, T.16 N., R.2 W., Platte County, Hydrologic Unit 10200103, on left bank near northwest corner of county bridge, 1.5 mi south of Duncan, and 15.3 mi upstream from Loup River, and at mile 114.

DRAINAGE AREA—59,300 mi^2, of which about 54,630 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—June 1895 to December 1909 (irrigation seasons only 1885–1900). 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.

REVISED RECORDS—WSP 956: 1935. WSP 1390: 1897, 1899–1901, 1903–05, 1929–32, 1935(M), 1936. WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder with satellite telemetry. Datum of gage is 1,476.82 ft above sea level. June 1895 to December 1909, April 1912 to September 1915, and June to October 1928, non-recording gage at site 7 mi downstream at different datums. Oct. 25, 1928, to Feb. 20, 1935, non-recording gage, and Feb. 20, 1935 to Mar. 21, 1984, recording gage both at present site at 2.00 ft higher datum. Mar. 22, 1984, to Mar. 4, 1987, at site 300 ft downstream at present datum. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

EXTREMES PRIOR TO REGULATION—Maximum discharge, 44,100 ft3/s June 23, 1905, gage height 6.50 ft, site and datum than in use. No flow at times in 1896, 1902, 1904–05, 1910–11, 1913–14, 1928, all at site downstream, 1931, 1933–41.

06774000 PLATTE RIVER NEAR DUNCAN, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	e353	e668	2190	546	376	104	2.7	1.3	0.00
2	0.00	0.00	0.00	e258	e637	1830	473	352	68	3.4	1.1	0.00
3	0.00	0.00	82	e194	e627	1530	408	326	43	3.3	0.87	0.00
4	0.00	0.00	176	e244	e689	1450	405	281	24	2.0	0.57	0.00
5	0.00	0.00	116	e236	e751	1830	463	241	28	2.8	0.22	0.00
6	0.00	0.00	86	e267	e782	1620	376	178	20	1.9	0.00	0.00
7	0.00	0.00	128	e278	e782	1260	346	155	13	5.6	0.00	0.00
8	0.00	0.00	159	e236	e793	1140	319	140	12	4.8	0.00	0.00
9	0.00	0.00	182	e278	e751	1200	337	137	11	516	0.00	0.00
10	0.00	0.00	234	e361	e637	895	368	260	11	545	0.00	0.00
11	0.00	0.00	261	e392	e751	745	364	245	11	362	0.00	0.00
12	0.00	0.00	247	e350	e803	768	342	222	10	363	0.00	0.00
13	0.00	0.00	180	e402	e844	970	327	289	9.3	313	0.00	0.00
14	0.00	0.00	131	e495	e803	872	311	301	7.7	311	0.00	0.00
15	0.00	0.00	74	e599	e741	991	289	259	7.2	225	0.00	0.00
16	0.00	0.00	e85	e827	e689	962	261	247	6.5	155	0.00	0.00
17	0.00	0.00	e94	e837	e813	696	232	238	6.0	127	0.00	0.00
18	0.00	0.00	e250	e961	e1060	534	232	205	10	91	0.00	0.00
19	0.00	0.00	e403	e1010	e1190	580	198	190	7.8	59	0.00	0.00
20	0.00	0.00	e412	e889	e1250	586	198	197	7.7	34	0.00	0.00
21	0.00	0.00	e412	e785	e1350	573	185	194	21	24	0.00	0.00
22	0.00	0.00	e417	e958	e1340	452	261	210	10	18	0.00	0.00
23	0.00	0.00	e394	e875	e1320	566	220	310	6.7	20	0.00	0.00
24	0.00	0.00	e381	e989	e1410	514	385	154	6.5	27	0.00	0.00
25	0.00	0.00	e417	e1020	e1350	437	600	130	5.0	23	0.00	0.00
26	0.00	0.00	e408	e969	e1240	384	558	109	5.5	8.6	0.00	0.00
27	0.00	0.00	e385	e865	e1420	440	533	76	4.9	5.1	0.00	0.00
28	0.00	0.00	e381	e730	e1540	642	484	45	4.2	2.9	0.00	0.00
29	0.00	0.00	e362	e699	1610	772	422	37	4.2	2.3	0.00	0.00
30	0.00	0.00	357	e689	---	722	409	341	2.8	2.0	0.00	0.00
31	0.00	---	e344	e658	---	658	---	170	---	1.5	0.00	---
TOTAL	0.00	0.00	7558.00	18704	28641	28809	10852	6615	488.0	3261.9	4.06	0.00
MEAN	0.00	0.00	244	603	988	929	362	213	16.3	105	0.13	0.00
MAX	0.00	0.00	417	1020	1610	2190	600	376	104	545	1.3	0.00
MIN	0.00	0.00	0.00	194	627	384	185	37	2.8	1.5	0.00	0.00
AC-FT	0.00	0.00	14990	37100	56810	57140	21520	13120	968	6470	8.1	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, BY WATER YEAR (WY)

MEAN	1355	1510	1486	1551	2268	2873	2463	2563	2804	1390	639	937
MAX	6673	5617	5107	5603	8795	9531	13410	15450	18320	12590	6135	6785
(WY)	1974	1985	1985	1984	1984	1984	1984	1984	1983	1983	1983	1983
MIN	0.00	0.00	15.7	44.5	269	820	362	150	11.3	0.00	0.00	0.00
(WY)	1957	1957	1942	1942	1942	1957	2004	1955	1956	1956	1956	1956

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1942 - 2004	
ANNUAL TOTAL	163824.82		104932.96			
ANNUAL MEAN	449		287		1815	
HIGHEST ANNUAL MEAN					6652	1984
LOWEST ANNUAL MEAN					287	2004
HIGHEST DAILY MEAN	2470	May 5	2190	Mar 1	23800	Jul 1 1983
LOWEST DAILY MEAN	0.00	Jul 24	0.00	Oct 1	0.00	Jan 4 1942
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 24	0.00	Oct 1	0.00	Oct 1 1943
MAXIMUM PEAK FLOW			2300	Mar 1	*25400	Mar 28 1960
MAXIMUM PEAK STAGE			4.26	Mar 1	**7.86	Mar 11 1993
ANNUAL RUNOFF (AC-FT)	324900		208100		1315000	
10 PERCENT EXCEEDS	1100		839		3850	
50 PERCENT EXCEEDS	381		99		1240	
90 PERCENT EXCEEDS	0.00		0.00		80	

e Estimated
* Stage 6.36 ft
** Backwater from ice

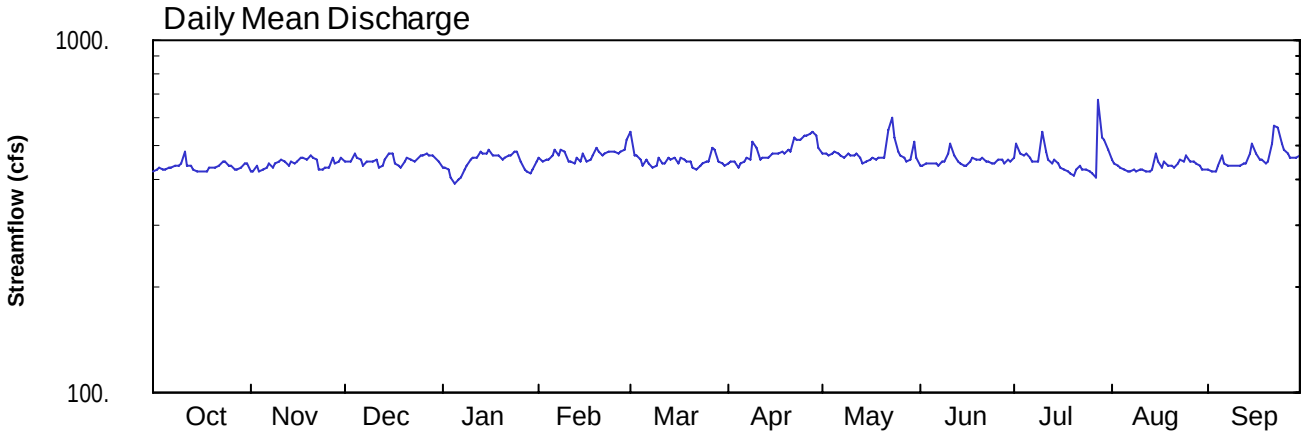
2004 Water Year

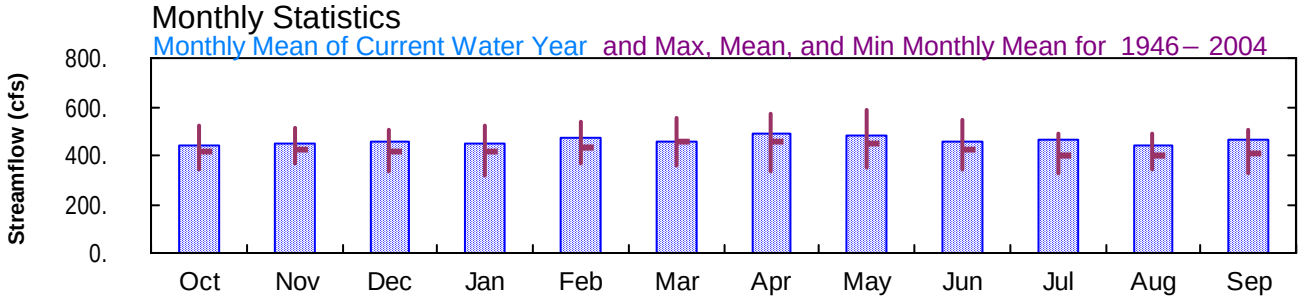
PLATTE RIVER BASIN

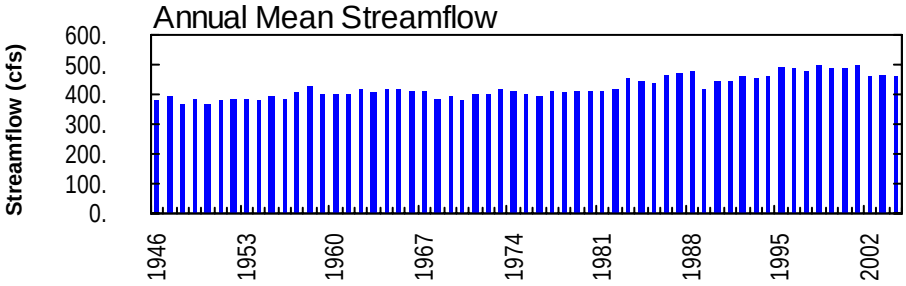
06775500 MIDDLE LOUP RIVER AT DUNNING, NEBR.

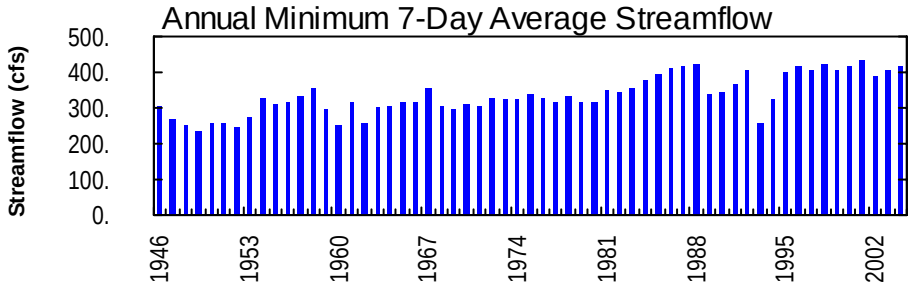
Latitude: 41° 49 ' 52" Longitude: 100° 06 ' 02" Hydrologic Unit Code: 10210001

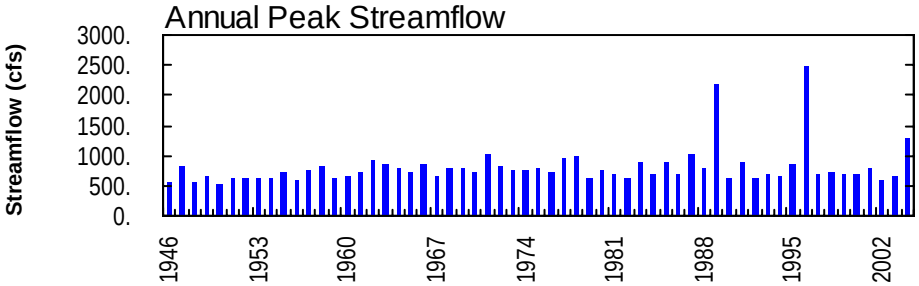
Blaine County Datum: 2604.14 feet Drainage Area: 1830. mi^2











06775500 MIDDLE LOUP RIVER AT DUNNING, NE

LOCATION—Lat 41°49'50", long 100°06'20", in NW 1/4 SE 1/4 sec.33, T.22 N., R.24 W., Blaine County, Hydrologic Unit 10210001, on left bank near upstream end of bridge on State Highway 2 at north edge of Dunning, 1.0 mi upstream from Dismal River, and at mile 204.

DRAINAGE AREA—1,830 mi^2, of which about 79 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—September 1945 to current year.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 2,604.14 ft above sea level. Prior to Sept. 12, 1946, non-recording gage, and Sept. 12, 1946, to Sept. 30, 1962, water-stage recorder at site 0.2 mi upstream at datum 3.03 ft higher. Oct. 1, 1962, to May 15, 1989, at present site, and May 15, 1989, to Mar. 20, 1990, at site 0.2 mi upstream, both at datum 3.00 ft higher. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

06775500 MIDDLE LOUP RIVER AT DUNNING, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	425	425	454	434	466	550	444	479	443	462	457	431
2	429	422	452	436	e450	472	451	475	442	508	444	426
3	434	440	455	e430	456	472	453	473	445	477	439	426
4	428	425	477	e410	456	457	437	475	444	472	436	442
5	430	430	466	e390	468	441	445	482	445	478	428	470
6	434	433	456	e400	487	459	453	476	445	464	425	447
7	436	445	438	e410	469	444	465	470	439	450	424	440
8	440	436	e450	e430	488	435	459	464	451	451	432	439
9	440	444	e450	439	481	442	518	474	455	454	425	441
10	444	451	452	458	450	462	497	471	478	548	432	443
11	484	456	457	467	454	447	461	468	511	480	429	443
12	443	450	435	465	445	448	464	477	472	457	423	446
13	438	443	442	482	466	464	465	467	453	448	423	448
14	432	452	460	477	455	456	466	448	445	457	429	475
15	425	449	476	475	477	463	476	454	440	449	477	511
16	425	453	475	486	453	447	474	461	443	434	451	474
17	425	466	446	472	456	462	474	462	451	429	435	461
18	425	467	442	472	471	459	484	457	464	425	453	456
19	437	460	436	469	494	455	477	464	461	417	440	447
20	436	468	451	458	480	452	492	463	460	415	439	452
21	433	462	463	462	470	435	484	465	466	429	436	508
22	442	458	460	473	478	432	527	555	455	442	444	569
23	454	e430	454	469	485	440	521	599	451	429	461	564
24	452	e430	461	482	482	444	520	532	449	430	455	508
25	441	437	472	480	484	452	533	484	448	422	469	489
26	438	436	471	451	479	454	535	470	459	416	452	477
27	427	464	476	e430	484	498	541	462	461	410	451	465
28	429	448	473	422	487	486	547	455	448	676	446	466
29	434	451	468	e420	520	455	533	458	461	528	441	463
30	448	465	457	e430	---	444	494	515	455	524	431	469
31	446	---	453	452	---	441	---	467	---	488	432	---
TOTAL	13554	13396	14178	13931	13691	14168	14590	14822	13640	14369	13659	13996
MEAN	437	447	457	449	472	457	486	478	455	464	441	467
MAX	484	468	477	486	520	550	547	599	511	676	477	569
MIN	425	422	435	390	445	432	437	448	439	410	423	426
AC-FT	26880	26570	28120	27630	27160	28100	28940	29400	27050	28500	27090	27760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY)

MEAN	414	424	419	415	434	459	459	448	424	401	401	404
MAX	519	517	509	519	543	556	573	590	545	491	490	504
(WY)	1997	1992	1994	2001	2001	2001	2001	1995	1995	1999	1998	1996
MIN	346	364	336	322	365	359	334	353	342	324	341	330
(WY)	1951	1948	1950	1949	1994	1968	1951	1948	1948	1970	1947	1955

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1946 - 2004	
ANNUAL TOTAL	168667		167994			
ANNUAL MEAN	462		459		425	
HIGHEST ANNUAL MEAN					502	2001
LOWEST ANNUAL MEAN					365	1950
HIGHEST DAILY MEAN	591	May 9	676	Jul 28	778	Apr 20 1971
LOWEST DAILY MEAN	399	Aug 24	390	Jan 5	100	Dec 5 1950
ANNUAL SEVEN-DAY MINIMUM	407	Aug 24	415	Jan 2	231	Jan 1 1949
MAXIMUM PEAK FLOW			1300	Jul 28	*2480	Mar 25 1996
MAXIMUM PEAK STAGE			4.22	Jul 28	**7.02	Mar 31 1949
ANNUAL RUNOFF (AC-FT)	334600		333200		307900	
10 PERCENT EXCEEDS	509		486		504	
50 PERCENT EXCEEDS	460		454		420	
90 PERCENT EXCEEDS	418		429		352	

e Estimated
* Caused by ice jam release upstream, stage 6.15 ft
** Backwater from ice

2004 Water Year

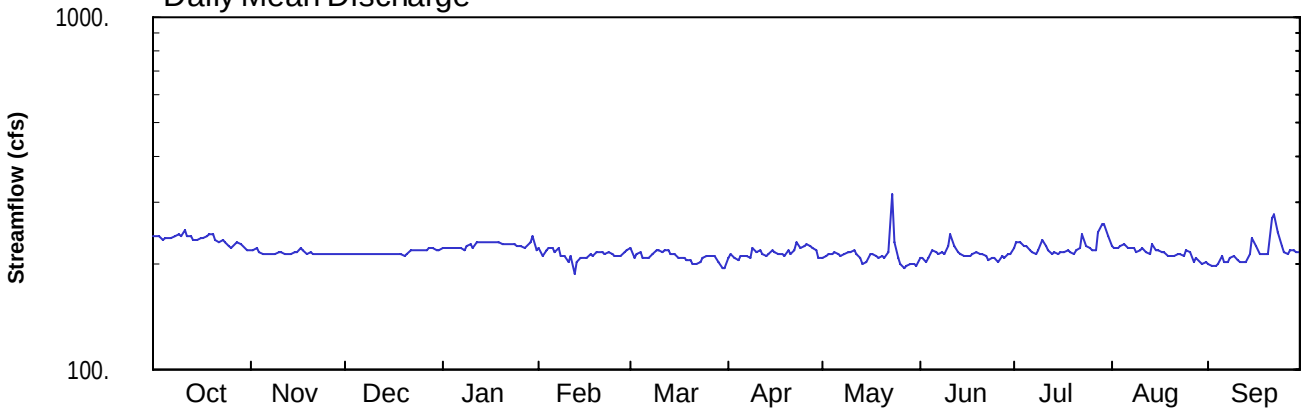
PLATTE RIVER BASIN

06775900 DISMAL RIVER NEAR THEDFORD, NE

Latitude: 41° 46 ' 42" Longitude: 100° 31 ' 31" Hydrologic Unit Code: 10210002

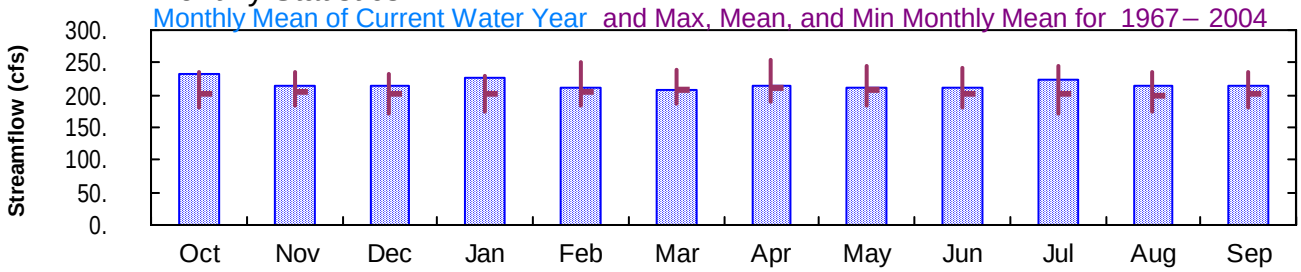
Thomas County Datum: 2800.13 feet Drainage Area: 966. mi^2

Daily Mean Discharge

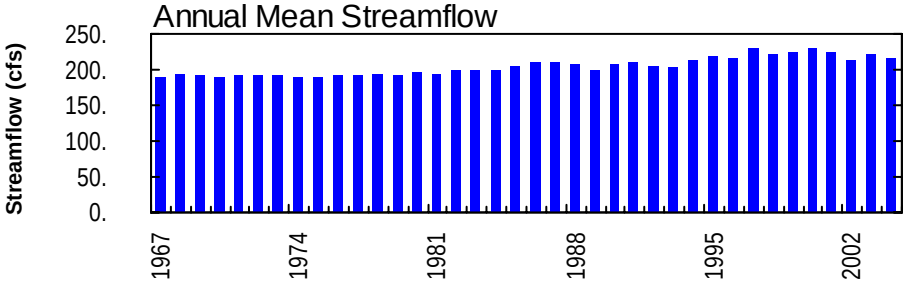


Monthly Statistics

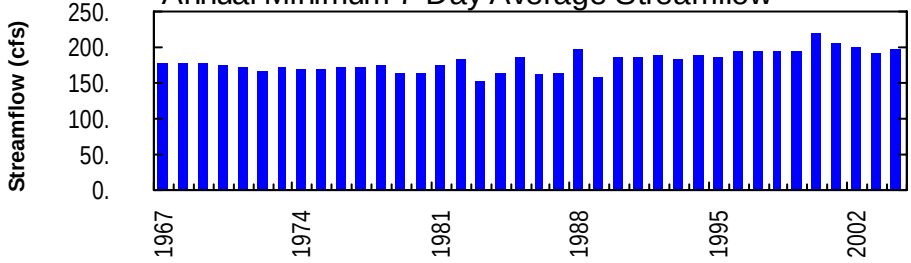
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1967 – 2004



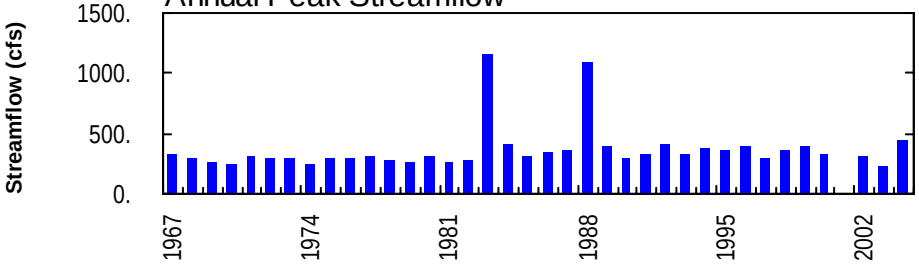
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



NO PHOTOS AVAILABLE FOR THIS SITE

06775900 DISMAL RIVER NEAR THEDFORD, NE
(Hydrologic bench-mark station)
(National Water-Quality Assessment, NAWQA, station)

LOCATION—Lat 41°46'45", long 100°31'30", in SE 1/4 NW 1/4 sec.23, T.21 N., R.28 W., Thomas County, Hydrologic Unit 10210002, on right bank 1,400 ft downstream from bridge on U.S. Highway 83, 2 mi upstream from boundary of Nebraska National Forest(Bessey Division), 14 mi south of Thedford, and at mile 32.9.

DRAINAGE AREA—966 mi^2, approximately, of which about 30 mi^2 contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD—October 1966 to current year.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 2,800.13 ft above sea level. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are fair.

PERIODIC WATER-QUALITY RECORDS

PERIOD OF RECORD—Water years 1968–98, 2001 to current year.

PERIODIC ECOLOGICAL RECORDS

PERIOD OF RECORD—Water years 1992–95, 2002 to current year.

06775900 DISMAL RIVER NEAR THEDFORD, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240	217	213	220	221	221	208	208	207	220	225	198
2	238	218	213	220	209	208	213	211	208	229	222	197
3	238	221	213	222	217	214	208	213	203	229	221	197
4	232	216	213	e220	221	215	205	212	207	223	224	199
5	235	214	213	e220	222	206	211	215	218	225	227	210
6	236	213	213	e220	216	206	209	213	216	218	222	202
7	235	214	213	e220	e220	207	210	211	214	215	222	201
8	240	213	213	219	211	213	207	213	215	213	221	208
9	241	213	213	225	209	218	220	216	214	218	216	210
10	238	215	213	226	203	219	216	216	224	232	218	204
11	247	215	213	221	210	216	218	217	243	224	220	203
12	239	213	213	e230	187	218	214	214	225	218	215	202
13	238	213	213	e230	202	219	210	207	215	214	212	203
14	234	214	213	229	207	214	213	200	212	216	228	214
15	234	216	213	229	206	213	217	203	209	214	219	235
16	237	215	213	229	206	208	216	212	211	215	218	224
17	236	220	213	229	212	207	214	213	210	216	216	213
18	238	218	212	229	209	206	213	209	212	218	215	213
19	242	213	212	229	216	204	209	206	216	216	210	214
20	241	215	211	228	216	205	217	209	213	213	209	214
21	233	213	214	228	216	199	214	207	214	217	209	268
22	231	213	217	227	214	198	219	215	210	222	214	275
23	232	213	217	226	216	202	229	314	204	241	213	244
24	231	212	217	227	214	206	222	230	207	225	211	225
25	225	213	217	225	211	210	224	208	207	221	219	216
26	222	213	217	224	210	210	226	199	203	217	215	212
27	227	213	217	e220	210	209	224	194	211	218	203	219
28	230	213	220	e225	216	209	222	196	207	246	206	217
29	228	213	220	e230	219	201	219	198	213	257	201	215
30	222	213	219	238	---	193	207	199	214	259	198	216
31	219	---	219	219	---	194	---	197	---	240	202	---
TOTAL	7259	6435	6650	6984	6146	6468	6454	6575	6382	6949	6671	6468
MEAN	234	214	215	225	212	209	215	212	213	224	215	216
MAX	247	221	220	238	222	221	229	314	243	259	228	275
MIN	219	212	211	219	187	193	205	194	203	213	198	197
AC-FT	14400	12760	13190	13850	12190	12830	12800	13040	12660	13780	13230	12830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2004, BY WATER YEAR (WY)

MEAN	203	205	203	203	205	210	212	210	203	202	199	201
MAX	235	237	231	230	251	239	254	246	242	245	234	237
(WY)	1998	1999	2000	1985	1997	1997	1995	1995	2000	1999	1998	1997
MIN	181	183	170	175	185	188	191	183	179	172	176	179
(WY)	1974	1970	1979	1972	1968	1971	1985	1967	1975	1980	1974	1974

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1967 - 2004	
ANNUAL TOTAL	81649		79441			
ANNUAL MEAN	224		217		205	
HIGHEST ANNUAL MEAN					231	2000
LOWEST ANNUAL MEAN					188	1970
HIGHEST DAILY MEAN	271	May 4	314	May 23	463	Aug 23 1983
LOWEST DAILY MEAN	189	Mar 2	187	Feb 12	125	Feb 3 1989
ANNUAL SEVEN-DAY MINIMUM	197	Feb 26	199	May 26	153	Dec 29 1982
MAXIMUM PEAK FLOW			450	May 23	*1160	Aug 23 1983
MAXIMUM PEAK STAGE			2.03	May 23	**5.10	Dec 18 1983
ANNUAL RUNOFF (AC-FT)	162000		157600		148300	
10 PERCENT EXCEEDS	240		231		229	
50 PERCENT EXCEEDS	222		215		202	
90 PERCENT EXCEEDS	210		205		183	

e Estimated
* Stage 3.83 ft
** Backwater from ice

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Chlor-ide, water, fltrd, mg/L (00940)
OCT													
16...	1100	.47	234	13	689	9.1	8.1	163	15.0	10.0	84	102	.99
NOV													
06...	1200	.48	213	12	699	10.9	7.9	175	1.0	6.9	77	93	1.33
DEC													
18...	1300	.36	213	18	701	11.3	E7.5	172	6.0	5.7	81	98	1.05
JAN													
08...	1100	.33	225	24	698	E10.9	7.8	173	-2.0	4.0	--	--	1.40
FEB													
05...	1200	1.30	221	15	694	11.3	7.4	175	-5.0	4.5	--	--	1.17
24...	1100	1.32	217	19	697	11.6	7.5	177	1.0	6.5	76	93	1.10
APR													
06...	1200	1.36	217	14	703	9.3	8.2	166	14.5	13.4	A78	A93	.95
MAY													
06...	1100	1.35	217	16	689	8.5	7.5	178	19.0	17.5	75	91	.96
JUL													
13...	1000	1.37	205	17	692	7.4	8.4	180	22.0	20.5	73	88	1.06
AUG													
05...	1000	1.41	221	36	694	8.0	8.1	175	21.0	18.0	72	87	.94
SEP													
14...	1030	1.34	207	13	683	7.8	7.8	175	16.5	17.0	67	81	.76

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Partic-ulate nitro-gen, susp, water, mg/L (49570)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Total nitro-gen, wat unf by anal ysis, mg/L (62855)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor-ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)
OCT													
16...	6.2	<.04	.53	E.004	.15	.129	.186	.72	1.6	<.1	1.6	.9	28
NOV													
06...	6.3	<.04	.58	<.008	.11	.130	.21	.79	1.2	<.1	1.2	.8	E26
DEC													
18...	6.4	<.04	.65	<.008	.14	.136	.24	.80	1.7	<.1	1.7	.8	22
JAN													
08...	6.0	<.04	.62	<.008	.30	.138	.27	.88	2.8	<.1	2.8	.9	--
FEB													
05...	6.3	<.04	.63	<.008	.15	.139	.24	.82	1.7	<.1	1.7	1.0	18
24...	6.0	<.04	.57	<.008	.17	.138	.27	.82	1.7	<.1	1.7	1.1	--
APR													
06...	5.3	<.04	.48	<.008	.15	.129	.21	.66	1.3	<.1	1.3	1.1	24
MAY													
06...	6.2	<.04	.49	E.004	.20	.129	--	--	2.0	<.1	2.0	1.2	--
JUL													
13...	6.1	<.04	.38	<.008	.29	.119	.21	.65	2.2	<.1	2.2	1.3	26
AUG													
05...	5.9	<.04	.43	<.008	--	.142	.25	.74	--	--	--	1.5	--
SEP													
14...	5.1	<.04	.45	<.008	.15	.128	.197	.62	1.2	<.1	1.2	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
OCT		
16...	156	99
NOV		
06...	E207	--
DEC		
18...	314	181
JAN		
08...	781	474
FEB		
05...	355	212
24...	577	338
APR		
06...	352	206
MAY		
06...	426	250
JUL		
13...	265	147
AUG		
05...	324	193
SEP		
14...	--	--

Remark codes used in this table:
< -- Less than
A -- Average value
E -- Estimated value

ECOLOGICAL DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Biomass peri-phyton, ashfree drymass g/m2 (49954)	Peri-phyton biomass ash weight, g/m2 (00572)	Peri-phyton biomass dry weight, g/m2 (00573)	Biomass chloro-phyll ratio, peri-phyton, number (70950)	Pheo-phytin a, peri-phyton, mg/m2 (62359)	Chloro-phyll a peri-phyton, chromo-fluoro, mg/m2 (70957)
AUG										
16...	1300	7.9	172	21.6	32.7	430	466.7	567	29	57.6

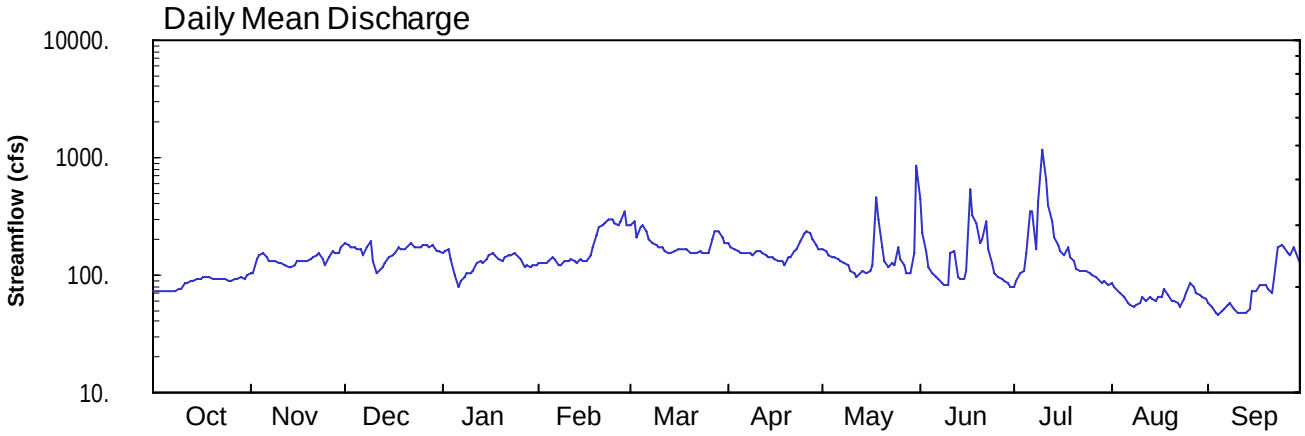
2004 Water Year

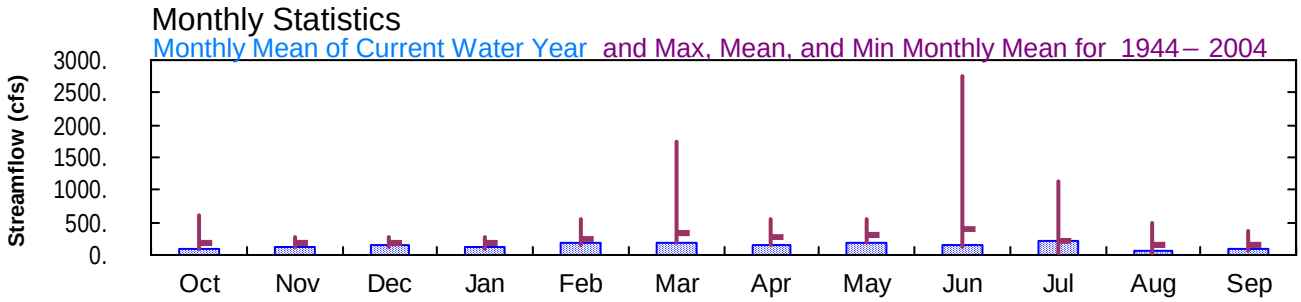
PLATTE RIVER BASIN

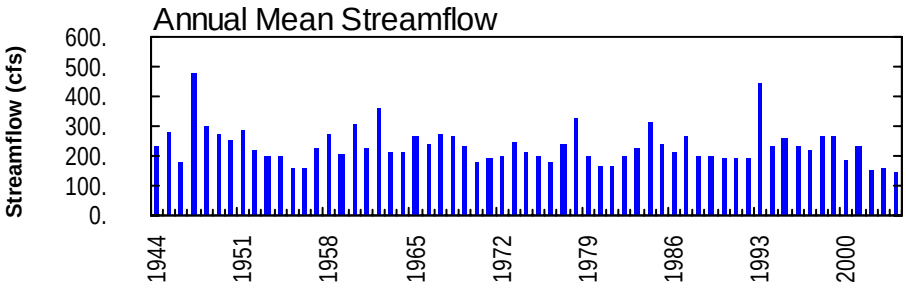
06784000 SOUTH LOUP R AT ST. MICHAEL, NEBR.

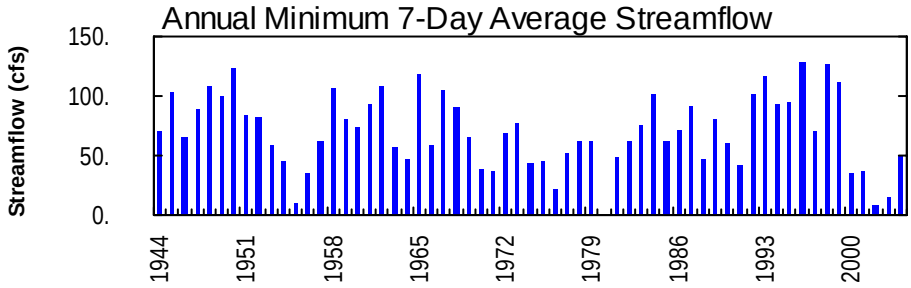
Latitude: 41°01'56" Longitude: 098°44'25" Hydrologic Unit Code: 10210004

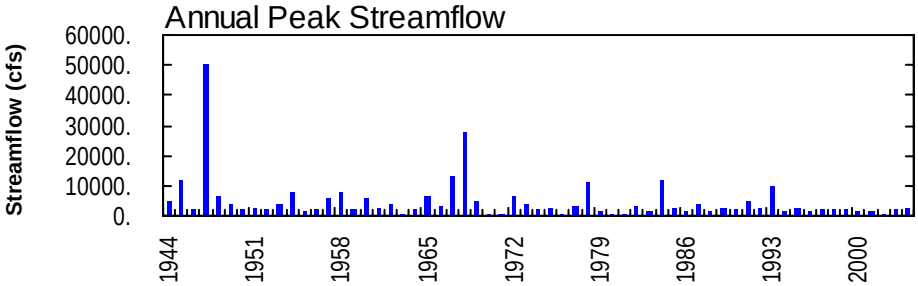
Buffalo County Datum: 1921.26 feet Drainage Area: 2320. mi²

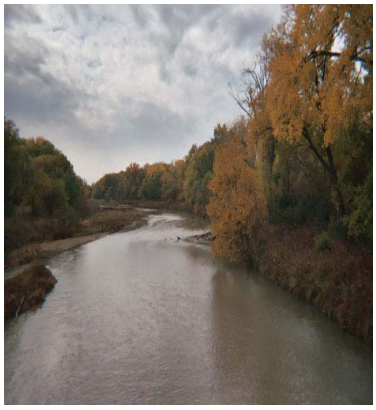












06784000 SOUTH LOUP RIVER AT ST. MICHAEL, NE

LOCATION—Lat 41°01'53", long 98°44'25", in NW 1/4 NW 1/4 sec.12, T.12 N., R.13 W., Buffalo County, Hydrologic Unit 10210004, 5 ft downstream and 30 ft shoreward from left downstream corner of county highway bridge, 0.6 mi northeast of St. Michael, 3.4 mi upstream from Sweet Creek, and at mile 9.0.

DRAINAGE AREA—2,350 mi^2, of which about 1,610 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—October 1943 to current year.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,921.26 ft above sea level. Prior to June 22, 1947, water-stage recorder, and June 25 to Sept. 30, 1947, non-recording gage, at present site at datum 2.00 ft higher. Oct. 1, 1947 to July 3, 1958, non-recording gage at present site and datum. July 4, 1958 to Sept. 7, 1960, water-stage recorder at site 600 ft upstream at present datum. Sept. 8, 196 to June 24, 1968, water-stage recorder at site 100 ft upstream at present datum. June 25 to Nov. 21, 1968, non-recording gage at present site and datum. Nov. 22, 1968 to May 19, 1981, water-stage recorder at site 40 ft upstream at present datum. May 20 to July 16, 1981, water-stage recorder at site 70 ft upstream at present datum. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, which are poor. Minor irrigation developments above station.

06784000 SOUTH LOUP RIVER AT ST. MICHAEL, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	102	e185	152	e125	269	186	163	441	78	86	59
2	74	105	182	158	e125	284	175	159	228	90	78	54
3	74	138	171	165	e125	210	165	150	159	105	74	48
4	74	149	171	136	e130	255	159	142	117	107	70	45
5	72	152	169	e100	e140	264	152	140	102	151	65	50
6	72	141	164	e80	e135	234	152	138	97	349	58	52
7	73	132	149	e88	e120	205	155	131	91	349	56	55
8	74	133	174	e98	e120	187	151	128	84	163	54	57
9	75	131	196	e102	e130	179	150	123	82	431	56	52
10	76	126	133	e104	e130	175	157	109	81	1190	59	48
11	87	125	106	e110	e135	170	157	104	152	649	64	47
12	84	122	e110	e125	e130	162	153	97	162	390	60	48
13	90	119	e118	e130	e125	155	147	105	98	283	64	47
14	90	119	e125	e125	e135	155	143	107	93	214	63	52
15	93	123	e140	e135	e130	161	144	106	94	178	60	73
16	92	129	e145	e145	e130	168	139	108	107	161	64	74
17	96	130	e155	e155	e145	167	132	120	528	147	66	82
18	96	131	e170	e150	e175	167	130	465	321	173	75	82
19	95	132	e165	e135	e220	163	122	304	278	144	67	83
20	93	135	e165	e130	e260	154	141	171	188	131	61	75
21	91	140	e175	e140	e270	152	144	134	202	111	61	70
22	92	146	e185	e150	e280	154	157	118	284	109	57	92
23	93	151	e175	e145	e300	157	167	127	165	109	54	173
24	91	135	e175	e155	e300	154	195	120	125	107	62	183
25	89	120	e175	e145	e280	155	223	170	103	105	70	173
26	90	e140	e180	e135	e270	155	232	138	97	101	87	153
27	92	e160	e180	e115	e290	200	225	120	94	97	80	148
28	94	e155	171	e120	349	237	200	105	89	93	71	172
29	95	e155	178	e115	262	238	179	105	86	85	68	151
30	94	e170	160	e120	---	209	167	153	80	90	66	128
31	100	---	158	e120	---	190	---	870	---	81	62	---
TOTAL	2674	4046	5005	3983	5466	5885	4899	5230	4828	6571	2038	2626
MEAN	86.3	135	161	128	188	190	163	169	161	212	65.7	87.5
MAX	100	170	196	165	349	284	232	870	528	1190	87	183
MIN	72	102	106	80	120	152	122	97	80	78	54	45
AC-FT	5300	8030	9930	7900	10840	11670	9720	10370	9580	13030	4040	5210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2004, BY WATER YEAR (WY)

MEAN	171	191	181	183	256	345	278	302	403	215	145	145
MAX	619	276	275	281	543	1747	549	562	2741	1121	482	370
(WY)	1947	1999	1994	1973	1966	1978	1984	1951	1947	1993	1962	1949
MIN	86.3	129	116	96.5	138	190	163	169	113	26.5	21.3	51.0
(WY)	2004	1957	1956	1972	1989	2004	2004	2004	2002	1980	1955	1956

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1944 - 2004	
ANNUAL TOTAL	57897		53251			
ANNUAL MEAN	159		145		234	
HIGHEST ANNUAL MEAN					483	1947
LOWEST ANNUAL MEAN					145	2004
HIGHEST DAILY MEAN	810	Jun 26	1190	Jul 10	28000	Jun 23 1947
LOWEST DAILY MEAN	12	Aug 31	45	Sep 4	0.00	Aug 5 1980
ANNUAL SEVEN-DAY MINIMUM	15	Aug 26	50	Sep 8	0.65	Aug 4 1980
MAXIMUM PEAK FLOW			2630	Jul 10	*50000	Jun 22 1947
MAXIMUM PEAK STAGE			5.95	Jul 10	12.00	Jun 22 1947
ANNUAL RUNOFF (AC-FT)	114800		105600		169700	
10 PERCENT EXCEEDS	262		221		337	
50 PERCENT EXCEEDS	145		132		190	
90 PERCENT EXCEEDS	42		69		100	

e Estimated
* Estimated. Maxim computed discharge 27500 ft^3/s, Jun 24, 1968, stage 11.00 ft

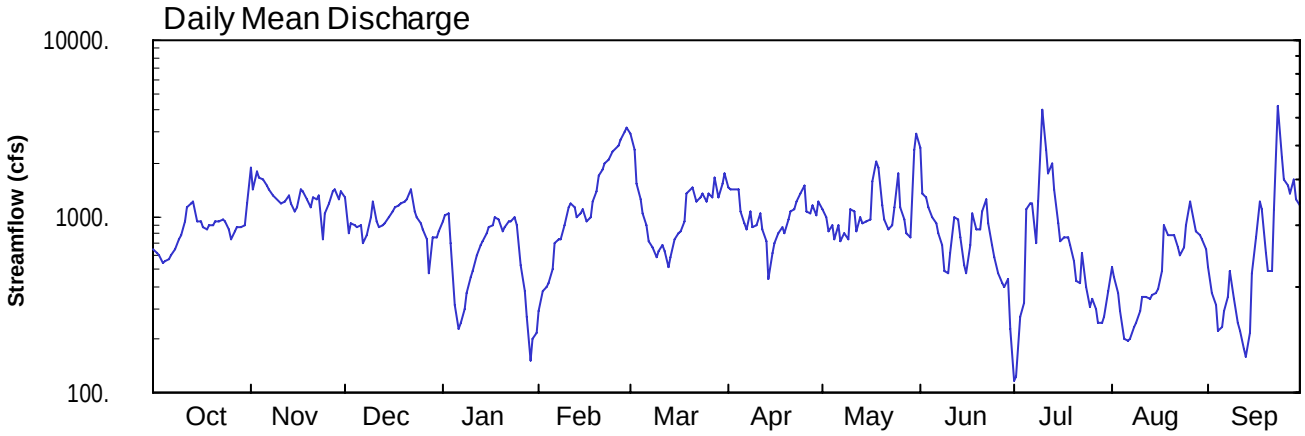
2004 Water Year

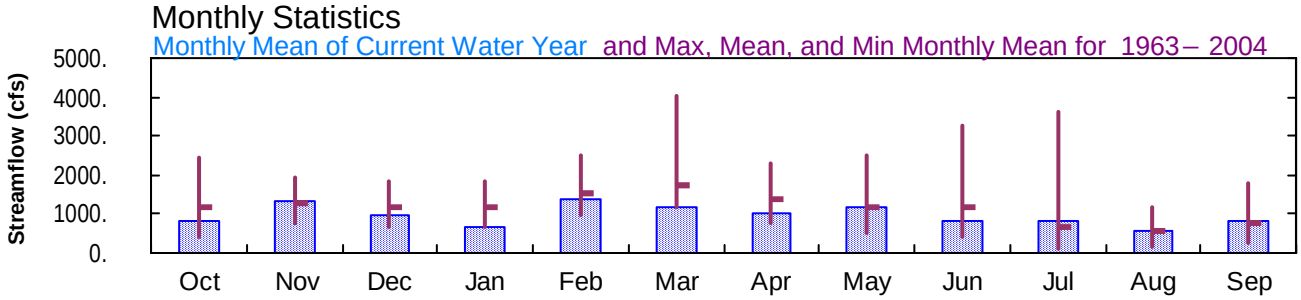
PLATTE RIVER BASIN

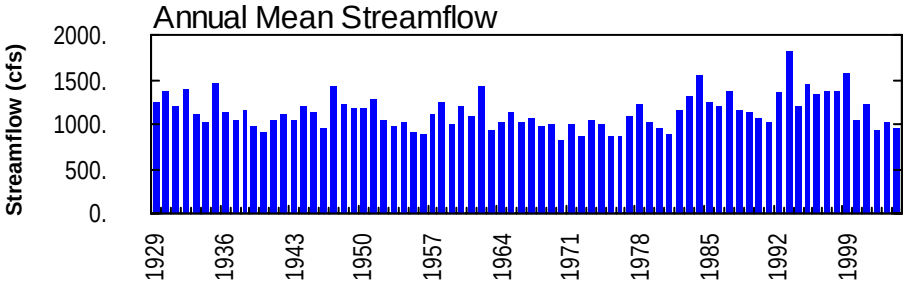
06785000 MIDDLE LOUP R. AT ST. PAUL, NEBR.

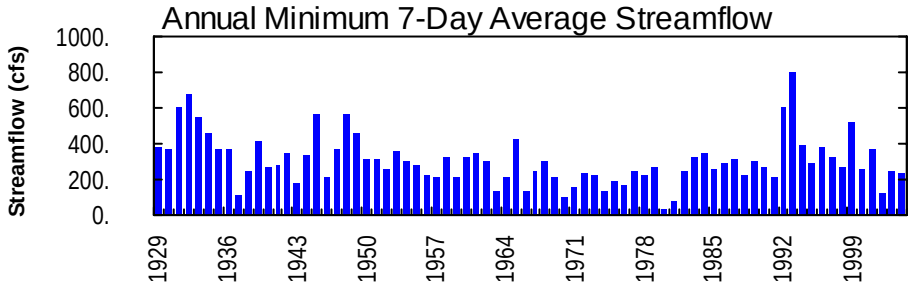
Latitude: 41° 12 ' 13" Longitude: 098° 26 ' 46" Hydrologic Unit Code: 10210003

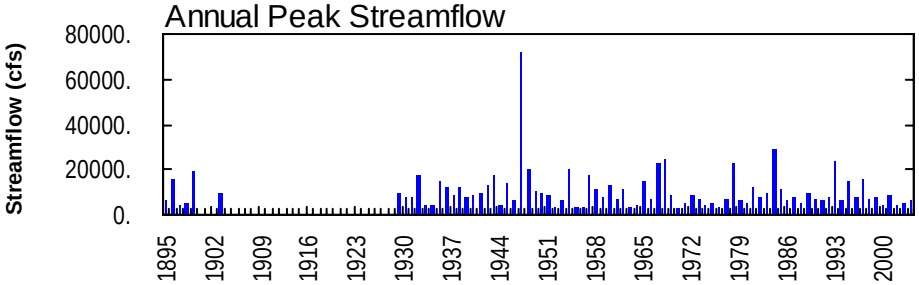
Howard County Datum: 1776.61 feet Drainage Area: 8075. mi^2

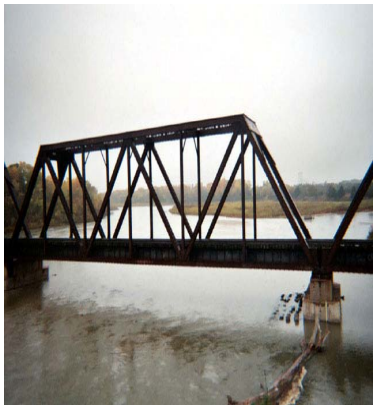












06785000 MIDDLE LOUP RIVER AT ST. PAUL, NE

LOCATION—Lat 41°12'13", long 98°26'46", in SE 1/4 NW 1/4 NE 1/4 sec.10, T.14 N., R.10 W., Howard County, Hydrologic Unit 10210003, on left bank at St. Paul, 50 ft upstream from bridge on U.S. Highway 281, 6 mi upstream from confluence with North Loup River, and at mile 74.0.

DRAINAGE AREA—8,075 mi^2, of which about 3,130 mi^2 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.

REVISED RECORDS—WSP 1036: 1943. WSP 1390: 1896, 1903, 1928(M), 1944. WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,776.61 ft above sea level. See WSP 1918 for history of changes prior to June 5, 1957. June 5, 1957, to Mar. 16, 1978, water-stage recorder on left bank approximately 410 ft upstream at same datum. Mar. 17 to May 31, 1978, non-recording gage on railroad bridge immediately upstream at same datum. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, which are poor. Diversions above station for irrigation.

06785000 MIDDLE LOUP RIVER AT ST. PAUL, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	646	1910	1270	936	e290	2960	1450	1090	2470	118	519	520
2	615	1430	801	1020	e380	2370	1410	1000	1340	123	451	367
3	596	1780	909	1050	e400	1550	1410	817	1270	266	365	317
4	542	1670	896	710	e420	1240	1410	880	1120	325	289	225
5	555	1620	873	312	e500	1030	1080	747	984	1100	202	238
6	566	1500	894	227	e700	885	924	883	907	1180	198	292
7	602	1410	701	e250	e740	728	855	731	810	1170	202	350
8	658	1300	790	e300	e740	668	1060	793	687	699	234	485
9	736	1280	997	e370	e900	587	871	740	494	1200	251	339
10	780	1210	1200	e450	e1120	630	887	1090	473	3980	291	246
11	930	1170	927	e490	e1180	690	1030	1080	611	2380	347	224
12	1110	1230	871	e600	e1120	635	853	826	990	1740	352	175
13	1170	1300	e880	e680	e980	521	721	985	951	1980	340	158
14	1230	1180	e920	e720	e1040	584	439	902	767	1430	355	219
15	945	1070	e980	e800	e1100	747	626	931	533	919	366	481
16	929	1130	e1060	e860	e940	812	710	961	477	721	382	759
17	864	1430	e1120	e900	e980	821	806	1580	689	760	483	1210
18	849	1400	1160	e1000	e1200	943	863	2040	1030	752	900	1100
19	894	1250	1180	e960	e1400	1340	809	1900	835	688	790	613
20	899	1130	1200	e820	e1700	1410	957	1150	855	561	779	488
21	936	1280	1240	e860	e1850	1470	1070	952	1080	428	773	493
22	926	1240	1410	e940	e2000	1200	1100	846	1240	414	660	1100
23	957	1300	1080	e940	e2100	1280	1200	896	919	614	607	4210
24	935	737	986	e1000	e2300	1350	1340	1130	685	393	672	2130
25	849	1050	922	e900	e2400	1230	1510	1740	588	303	887	1620
26	750	1180	851	528	e2500	1340	1080	1110	479	337	1220	1480
27	816	1390	739	e380	e2700	1280	1040	954	418	298	925	1360
28	878	1410	472	272	e3000	1680	1150	799	394	247	815	1630
29	863	1250	753	153	e3200	1280	1020	754	441	250	776	1240
30	882	1370	752	e200	---	1540	1220	2400	230	266	749	1140
31	1170	---	817	e220	---	1750	---	2970	---	373	648	---
TOTAL	26078	39607	29651	19848	39880	36551	30901	35677	24767	26015	16828	25209
MEAN	841	1320	956	640	1375	1179	1030	1151	826	839	543	840
MAX	1230	1910	1410	1050	3200	2960	1510	2970	2470	3980	1220	4210
MIN	542	737	472	153	290	521	439	731	230	118	198	158
AC-FT	51730	78560	58810	39370	79100	72500	61290	70770	49130	51600	33380	50000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004, BY WATER YEAR (WY)

MEAN	1157	1292	1160	1160	1519	1741	1358	1156	1166	646	571	757
MAX	2444	1922	1836	1844	2478	4022	2291	2476	3253	3642	1171	1790
(WY)	1993	1999	1971	1990	1984	1978	1984	1995	1967	1993	1992	1985
MIN	404	771	686	640	969	1153	767	519	395	124	174	240
(WY)	1964	1965	1969	2004	1979	2003	1981	1975	1972	1980	1980	1980

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1963 - 2004	
ANNUAL TOTAL	363907		351012			
ANNUAL MEAN	997		959		1137	
HIGHEST ANNUAL MEAN					1832	1993
LOWEST ANNUAL MEAN					831	1970
HIGHEST DAILY MEAN	3550	May 5	4210	Sep 23	21800	Jun 12 1984
LOWEST DAILY MEAN	203	Sep 7	118	Jul 1	23	Aug 9 1980
ANNUAL SEVEN-DAY MINIMUM	241	Aug 25	238	Aug 4	31	Aug 4 1980
MAXIMUM PEAK FLOW			*6070	Sep 23	72000	Jun 23 1947
MAXIMUM PEAK STAGE			**4.29	Feb 9	12.69	Jun 23 1947
ANNUAL RUNOFF (AC-FT)	721800		696200		824000	
10 PERCENT EXCEEDS	1650		1500		1850	
50 PERCENT EXCEEDS	935		896		1080	
90 PERCENT EXCEEDS	395		338		366	

e Estimated
* Stage 4.15 ft
** Backwater from ice

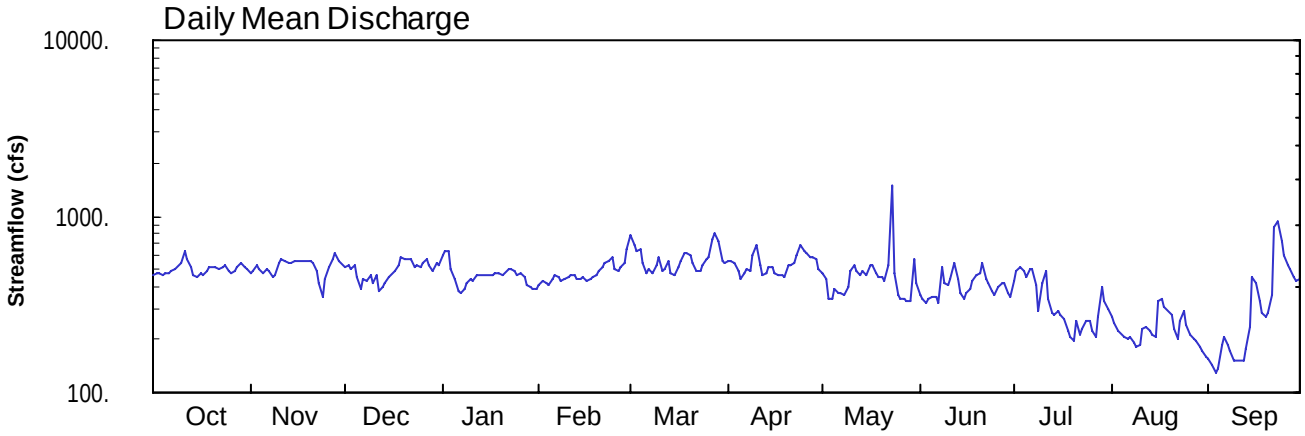
2004 Water Year

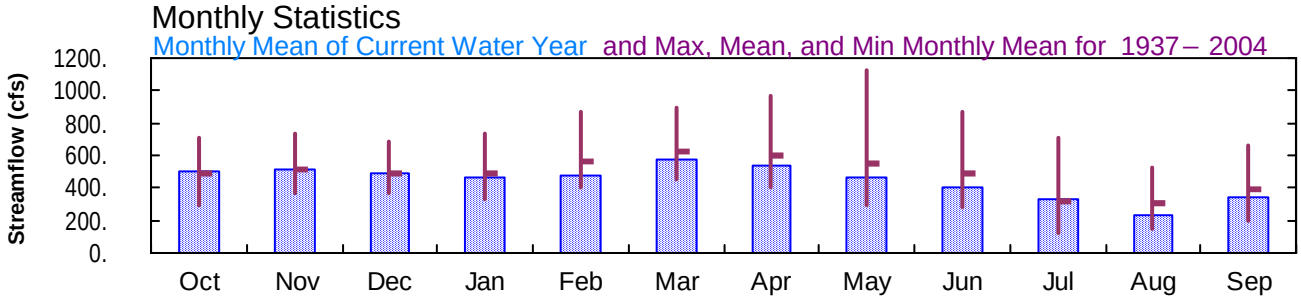
PLATTE RIVER BASIN

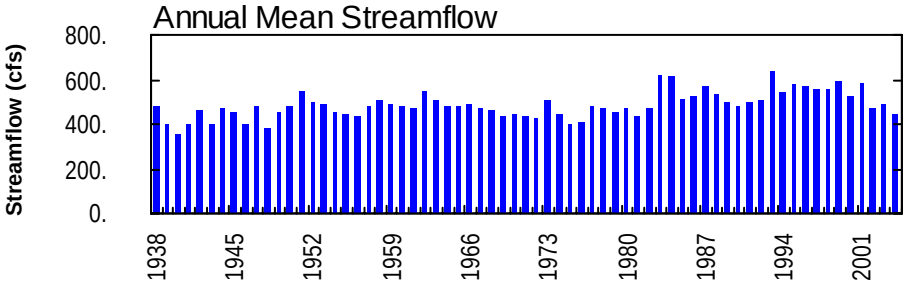
06786000 NORTH LOUP RIVER AT TAYLOR, NEBR.

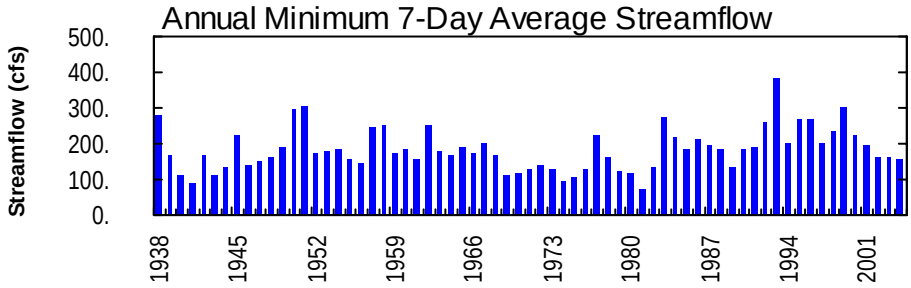
Latitude: 41°46'37" Longitude: 099°22'52" Hydrologic Unit Code: 10210006

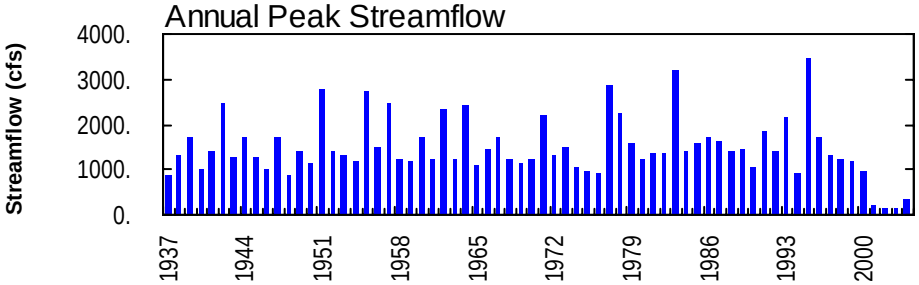
Loup County Datum: 2248.21 feet Drainage Area: 2350. mi^2











06786000 NORTH LOUP RIVER AT TAYLOR, NE

LOCATION—Lat 41°46'37", long 99°22'45", in NE 1/4 SE 1/4 sec.22, T.21 N., R.18 W., Loup County, Hydrologic Unit 10210006, on left bank 25 ft downstream from bridge on U.S. Highway 183, 0.4 mi north of Taylor and at mile 80.6.

DRAINAGE AREA—2,350 mi^2, of which about 186 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—November 1936 to current year.

REVISED RECORDS—WSP 856: 1937. WSP 1310: 1939(M). WSP 1730: 1956-57(M). WSP 1918: 1952. WDR NE-75: 1974. WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 2,248.21 ft above sea level. Prior to Sept. 28, 1938, non-recording gage at same site and datum. Sept. 28, 1938, to July 16, 1958, water-stage recorder at site 450 ft upstream at same datum.

REMARKS—Records good except for estimated daily discharges, which are poor. North Loup Public Power and Irrigation District canal began diversion from river in April 1939 at point 5 mi above station. Several smaller diversions above station for irrigation.

06786000 NORTH LOUP RIVER AT TAYLOR, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	470	477	521	604	e410	786	553	473	359	433	269	155
2	472	485	533	632	e430	689	558	446	342	492	248	143
3	480	531	504	640	e420	628	549	337	325	513	223	130
4	470	505	528	502	e410	644	484	344	342	490	219	136
5	473	476	456	e440	e440	539	440	388	345	455	207	187
6	471	506	386	e380	e460	472	477	372	349	499	202	209
7	484	490	444	e370	e450	503	502	369	323	499	206	189
8	501	454	427	e390	e430	472	491	359	516	407	192	174
9	524	468	467	e420	e440	530	596	392	415	293	183	152
10	543	544	422	e440	e450	592	677	488	412	416	187	150
11	628	576	e460	e430	e460	486	526	528	438	490	230	150
12	573	560	e380	e460	e460	505	466	486	549	342	236	151
13	511	543	e400	e460	e439	552	478	462	439	281	226	178
14	470	547	e420	e460	e440	476	517	485	365	277	210	234
15	450	554	e450	e470	e450	463	519	465	339	294	208	448
16	474	559	471	e470	e430	516	482	524	371	276	329	421
17	462	560	490	e470	e440	554	462	522	385	260	338	332
18	489	555	527	e480	e450	615	463	482	428	226	309	286
19	516	552	582	477	e470	626	453	454	468	205	292	269
20	521	550	566	463	e490	599	527	452	476	199	274	283
21	514	547	567	476	e520	542	532	432	539	253	229	357
22	496	492	571	500	e540	492	547	525	439	214	204	857
23	521	416	517	500	e560	488	608	1500	413	227	255	926
24	524	348	526	492	585	526	687	473	379	252	288	722
25	494	442	517	469	496	571	627	354	355	252	244	604
26	478	513	539	474	489	593	611	343	393	225	212	534
27	483	577	577	e450	519	741	583	342	422	207	203	498
28	516	615	526	e410	545	801	583	330	416	270	197	457
29	539	556	488	e400	652	717	567	331	369	398	182	432
30	517	542	542	e390	---	554	507	577	352	328	171	441
31	504	---	535	e390	---	536	---	414	---	301	160	---
TOTAL	15568	15540	15339	14409	13775	17808	16072	14449	12063	10274	7133	10205
MEAN	502	518	495	465	475	574	536	466	402	331	230	340
MAX	628	615	582	640	652	801	687	1500	549	513	338	926
MIN	450	348	380	370	410	463	440	330	323	199	160	130
AC-FT	30880	30820	30420	28580	27320	35320	31880	28660	23930	20380	14150	20240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2004, BY WATER YEAR (WY)

MEAN	488	515	488	494	565	624	605	547	486	321	301	393
MAX	706	730	680	738	863	896	970	1128	870	716	527	665
(WY)	1984	1987	2002	1941	1984	1993	2001	1995	1995	1962	1992	1951
MIN	295	373	365	331	402	454	404	300	284	119	143	200
(WY)	1941	1976	1979	1937	1939	1995	1940	1940	1940	1974	1969	1940

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1937 - 2004	
ANNUAL TOTAL	176572		162635			
ANNUAL MEAN	484		444		486	
HIGHEST ANNUAL MEAN					644	1993
LOWEST ANNUAL MEAN					354	1940
HIGHEST DAILY MEAN	980	May 9	1500	May 23	2690	May 28 1995
LOWEST DAILY MEAN	138	Aug 25	130	Sep 3	45	Jul 26 1941
ANNUAL SEVEN-DAY MINIMUM	162	Aug 20	154	Aug 29	74	Jul 11 1981
MAXIMUM PEAK FLOW			3660	May 23	3660	May 23 2004
MAXIMUM PEAK STAGE			5.10	May 23	*9.50	Feb 25 1957
ANNUAL RUNOFF (AC-FT)	350200		322600		351900	
10 PERCENT EXCEEDS	654		576		688	
50 PERCENT EXCEEDS	504		468		481	
90 PERCENT EXCEEDS	223		226		269	

e Estimated
* From floodmark, ice jam

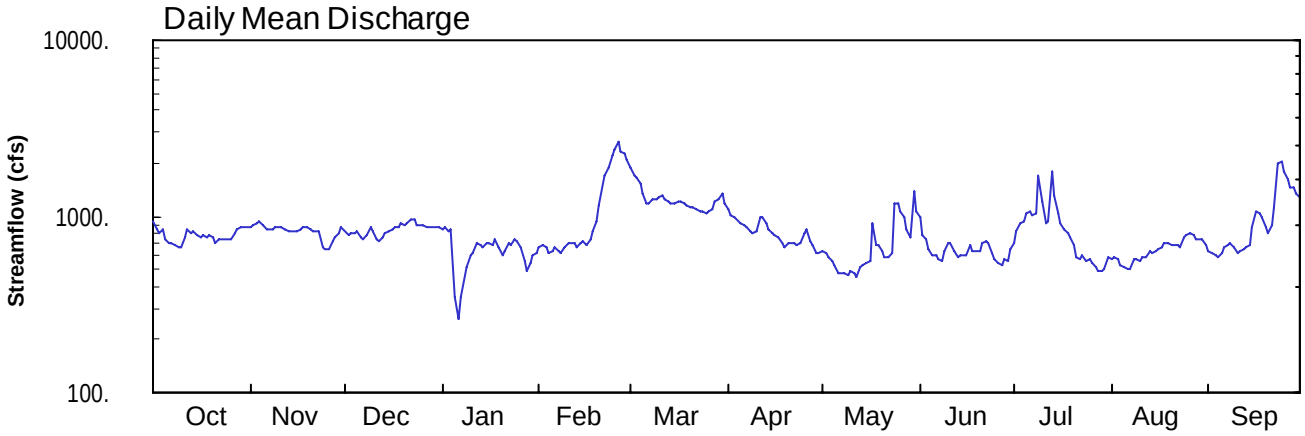
2004 Water Year

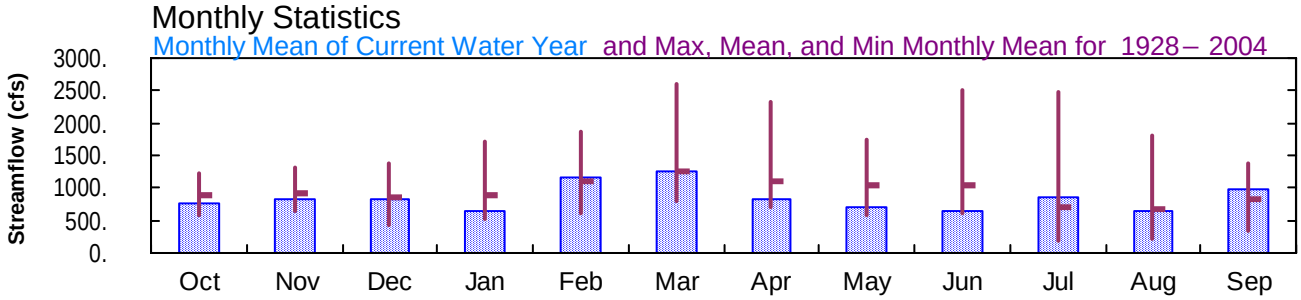
PLATTE RIVER BASIN

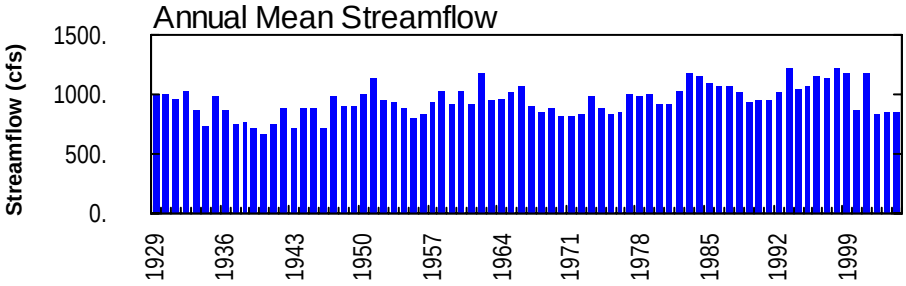
06790500 NORTH LOUP RIVER NR ST PAUL NEBR

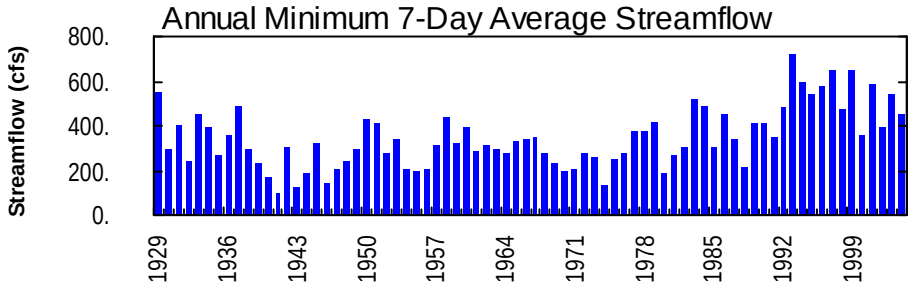
Latitude: 41° 15 ' 48" Longitude: 098° 26 ' 56" Hydrologic Unit Code: 10210007

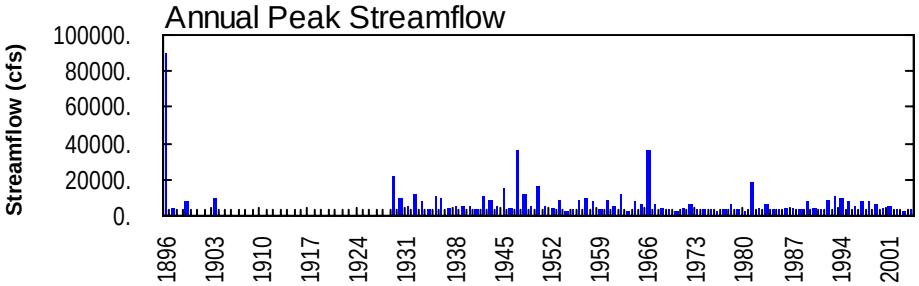
Howard County Datum: 1759.29 feet Drainage Area: 4302. mi^2











06790500 NORTH LOUP RIVER NEAR ST. PAUL, NE

LOCATION—Lat 41°15'48", long 98°26'56", in NW 1/4 NW 1/4 NE 1/4 sec.22, T.15 N., R.10 W., Howard County, Hydrologic Unit 10210007, on right bank 310 ft downstream from bridge on U.S. Highway 281, 3 mi north of St. Paul, and 2.9 mi upstream from confluence with Middle Loup River.

DRAINAGE AREA—4,302 mi^2, of which about 1,240 mi^2 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.

REVISED RECORDS—WSP 976: 1942. WSP 1390: 1896. WDR NE-75-1: 1974. WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,759.29 ft, adjusted, above sea level. See WSP 1918 for history of changes prior to Oct. 1, 1954. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, which are poor. Natural flow affected by diversions and ground-water withdrawals for irrigation and return flow from irrigated areas.

06790500 NORTH LOUP RIVER NEAR ST PAUL NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	927	878	821	851	e660	1870	1090	630	1000	696	573	642
2	841	898	777	856	e680	1690	1020	610	791	823	581	616
3	795	913	794	831	e660	1650	981	580	739	919	576	600
4	848	928	798	845	e620	1520	938	561	644	929	527	588
5	746	890	827	349	e640	1350	916	528	602	1030	515	625
6	709	845	770	259	e660	1180	882	480	606	1080	503	672
7	708	839	735	e350	e640	1170	859	474	568	1020	508	681
8	684	846	780	e450	e620	1250	825	471	554	1030	566	700
9	664	865	858	e520	e664	1250	794	465	634	1710	566	675
10	674	875	823	e600	e700	1290	818	489	701	1210	559	624
11	762	862	736	e620	e700	1310	976	473	704	915	582	641
12	850	855	728	e700	e700	1240	990	447	633	944	594	656
13	812	823	755	e680	e660	1200	923	514	588	1810	633	665
14	815	814	e800	e660	e700	1190	847	531	602	1300	624	684
15	773	817	e820	e700	e720	1180	800	544	608	1040	635	873
16	762	821	e840	e700	e680	1210	779	564	605	916	646	1070
17	773	854	e860	e680	e740	1200	755	908	677	846	661	1040
18	762	867	e860	e740	e820	1170	704	686	641	795	704	985
19	774	859	e920	e660	e940	1150	670	685	629	753	702	874
20	763	852	e900	e600	e1140	1130	706	640	628	686	689	803
21	708	832	e920	e640	e1500	1110	703	585	707	593	691	884
22	736	824	e956	e700	e1700	1100	703	592	722	567	688	1130
23	737	822	e960	e680	e1900	1080	684	611	704	595	664	2010
24	736	673	e900	e740	e2200	1060	711	1170	612	557	764	2050
25	738	646	e900	e720	e2400	1040	804	1190	573	571	780	1800
26	749	644	e880	e660	2630	1060	838	1080	545	546	805	1600
27	805	716	861	e560	2310	1090	725	977	532	520	772	1470
28	848	755	873	483	2280	1210	683	842	565	490	734	1440
29	872	810	878	548	2100	1260	620	769	562	486	751	1360
30	874	857	869	e600	---	1340	616	1370	651	499	748	1290
31	865	---	867	e620	---	1180	---	1070	---	591	685	---
TOTAL	24110	24780	26066	19602	33364	38730	24360	21536	19327	26467	20026	29748
MEAN	778	826	841	632	1150	1249	812	695	644	854	646	992
MAX	927	928	960	856	2630	1870	1090	1370	1000	1810	805	2050
MIN	664	644	728	259	620	1040	616	447	532	486	503	588
AC-FT	47820	49150	51700	38880	66180	76820	48320	42720	38340	52500	39720	59010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2004, BY WATER YEAR (WY)

MEAN	896	923	872	879	1116	1263	1115	1056	1036	712	682	833
MAX	1224	1330	1385	1703	1861	2589	2315	1743	2516	2471	1812	1384
(WY)	1996	1999	1998	1998	1998	1936	2001	1995	1947	1993	1966	1965
MIN	568	647	433	517	603	787	702	576	606	199	221	326
(WY)	1940	1938	1930	1940	1942	1934	1946	1943	1934	1974	1941	1940

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1928 - 2004	
ANNUAL TOTAL	312256		308116			
ANNUAL MEAN	855		842		947	
HIGHEST ANNUAL MEAN					1223	1993
LOWEST ANNUAL MEAN					668	1940
HIGHEST DAILY MEAN	2060	May 11	2630	Feb 26	21300	Jun 22 1947
LOWEST DAILY MEAN	506	Aug 17	259	Jan 6	85	Aug 8 1941
ANNUAL SEVEN-DAY MINIMUM	540	Aug 17	450	Jan 5	98	Aug 6 1941
MAXIMUM PEAK FLOW			*2810	Feb 26	e90000	Jun 6 1896
MAXIMUM PEAK STAGE			**4.32	Feb 24	***14.90	Jun 6 1896
ANNUAL RUNOFF (AC-FT)	619400		611100		686100	
10 PERCENT EXCEEDS	1060		1200		1370	
50 PERCENT EXCEEDS	839		762		891	
90 PERCENT EXCEEDS	607		565		516	

e Estimated
* Stage 3.99 ft
** Backwater from ice
*** From floodmark, datum then in use

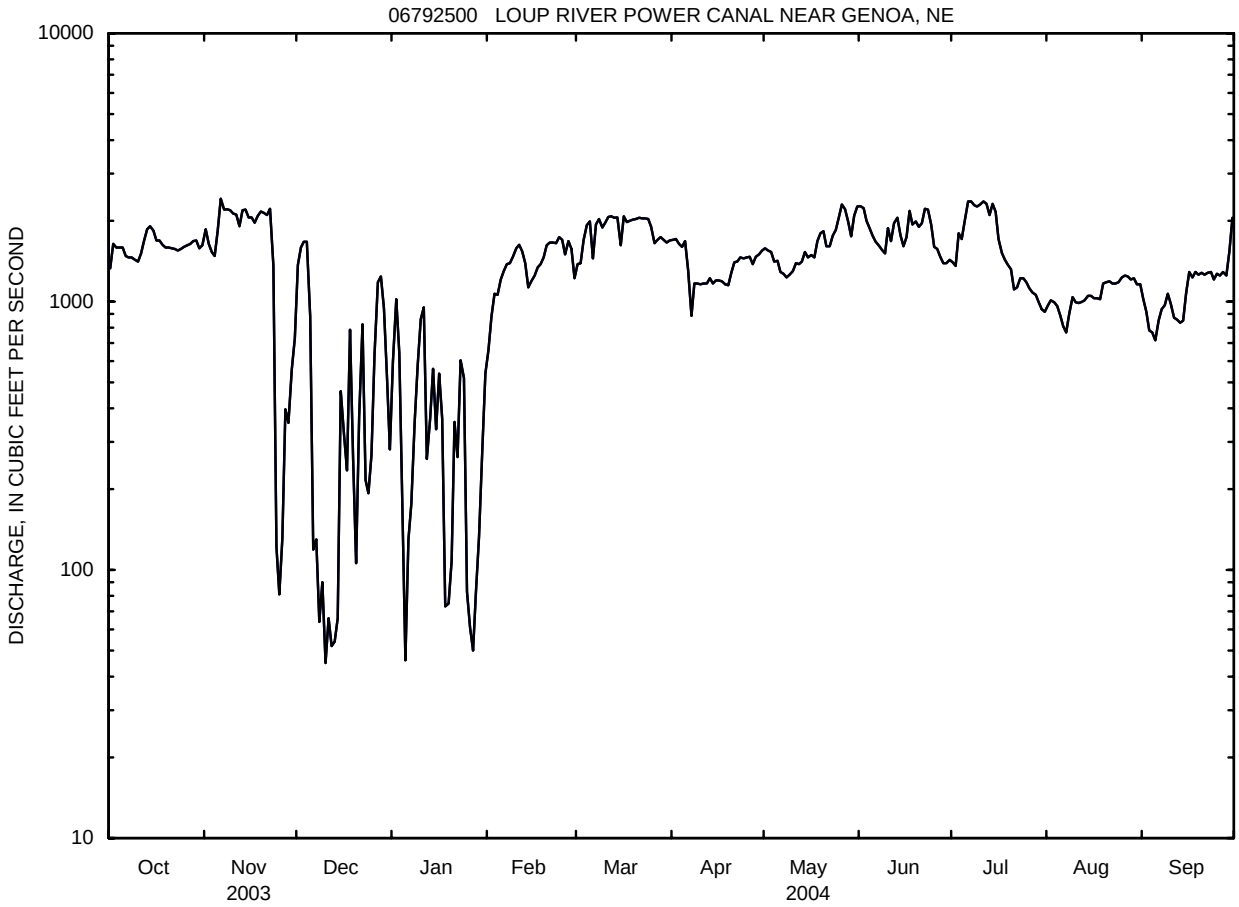
06792500 LOUP RIVER POWER CANAL NEAR GENOA, NE

LOCATION—Lat 41°25'03", long 97°47'37", in NE 1/4 NE 1/4 sec.32, T.17 N., R.4 W., Nance County, Hydrologic Unit 10210009, at skimming weir on downstream end of settling basin on left bank, 2 mi downstream from point of diversion and 3.5 mi 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 above sea level. Prior to Oct. 1, 1956, at datum 3.0 feet higher. Data collection platform at station.

REMARKS—Records good. Canal diverts from Loup River in sec.6, T.16 N., R.4 W.; water is used in power plants near Monroe and Columbus and is returned to Platte River 1.5 mi downstream from Loup River. Diversion began Dec. 2, 1936.



06792500 LOUP RIVER POWER CANAL NEAR GENOA, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1330	1860	1370	597	659	1380	1700	1580	2270	1400	966	1020
2	1640	1640	1590	1020	881	1390	1710	1550	2230	1360	1010	915
3	1590	1530	1670	641	1070	1700	1640	1530	2000	1800	994	782
4	1590	1480	1670	173	1060	1930	1600	1410	1880	1710	961	767
5	1590	1840	881	46	1210	1990	1680	1420	1760	2000	888	718
6	1480	2420	119	130	1300	1450	1310	1290	1670	2360	810	851
7	1460	2200	130	176	1380	1940	884	1270	1620	2360	768	937
8	1460	2210	64	356	1390	2030	1170	1230	1560	2290	902	969
9	1430	2190	90	582	1470	1890	1170	1260	1510	2260	1040	1070
10	1410	2130	45	861	1580	1970	1160	1300	1880	2300	995	980
11	1510	2110	66	953	1630	2070	1170	1390	1680	2360	987	872
12	1690	1910	52	259	1540	2080	1170	1380	1960	2310	997	855
13	1860	2190	54	368	1390	2050	1220	1410	2050	2100	1010	834
14	1910	2200	66	562	1130	2060	1170	1530	1770	2310	1050	849
15	1840	2060	464	334	1190	1620	1200	1460	1610	2160	1050	1080
16	1690	2060	322	539	1250	2080	1200	1490	1740	1710	1030	1290
17	1690	1970	235	366	1340	1980	1190	1460	2180	1520	1030	1230
18	1630	2090	786	73	1380	2000	1160	1680	1940	1430	1020	1290
19	1590	2170	262	75	1460	2020	1150	1800	1990	1370	1170	1260
20	1590	2140	106	108	1620	2030	1280	1830	1900	1320	1180	1280
21	1580	2100	372	356	1660	2050	1400	1610	1960	1110	1190	1260
22	1570	2220	824	263	1660	2040	1410	1610	2220	1130	1170	1280
23	1550	1360	216	605	1650	2040	1460	1760	2200	1220	1170	1290
24	1570	122	193	518	1740	2030	1450	1850	1940	1220	1180	1210
25	1600	81	268	83	1700	1900	1460	2060	1600	1180	1230	1270
26	1620	131	635	61	1500	1650	1470	2300	1570	1120	1250	1250
27	1640	397	1180	50	1680	1700	1380	2210	1470	1080	1240	1290
28	1680	353	1240	83	1570	1740	1470	1990	1390	1060	1210	1250
29	1690	559	942	132	1220	1700	1500	1750	1390	991	1220	1540
30	1580	730	521	283	---	1660	1550	2090	1430	938	1160	2050
31	1620	---	281	540	---	1690	---	2260	---	915	1160	---
TOTAL	49680	48453	16714	11193	40310	57860	40484	50760	54370	50394	33038	33539
MEAN	1603	1615	539	361	1390	1866	1349	1637	1812	1626	1066	1118
MAX	1910	2420	1670	1020	1740	2080	1710	2300	2270	2360	1250	2050
MIN	1330	81	45	46	659	1380	884	1230	1390	915	768	718
AC-FT	98540	96110	33150	22200	79950	114800	80300	100700	107800	99960	65530	66520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

MEAN	1937	1845	991	1150	1521	1822	2131	1991	1928	1374	1244	1562
MAX	2730	2811	1886	2194	2375	2673	2778	2767	2944	2706	2382	2640
(WY)	1987	1999	1982	1983	1987	1990	1977	1957	1962	1962	1996	1951
MIN	544	508	155	129	438	506	537	378	534	309	417	526
(WY)	1938	1939	1975	1985	1958	1939	1939	1984	1938	1980	1971	1998

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL TOTAL	539634		486795			
ANNUAL MEAN	1478		1330		1623	
HIGHEST ANNUAL MEAN					2006	1999
LOWEST ANNUAL MEAN					585	1938
HIGHEST DAILY MEAN	2900	Mar 28	2420	Nov 6	3560	Nov 3 1994
LOWEST DAILY MEAN	45	Dec 10	45	Dec 10	0.00	Aug 16 1966
ANNUAL SEVEN-DAY MINIMUM	62	Dec 8	62	Dec 8	11	Dec 3 1978
ANNUAL RUNOFF (AC-FT)	1070000		965600		1176000	
10 PERCENT EXCEEDS	2400		2060		2580	
50 PERCENT EXCEEDS	1530		1400		1730	
90 PERCENT EXCEEDS	366		347		510	

06793000 LOUP RIVER NEAR GENOA, NE

LOCATION—Lat 41°25'05", long 97°43'25", in SW 1/4 NE 1/4 sec.25, T.17 N., R.4 W., Nance County, Hydrologic Unit 10210009, on right bank 12 ft downstream from bridge on State Highway 39, 2 mi south of Genoa, 3 mi upstream from Beaver Creek, 6 mi downstream from diversion dam of Loup River Public Power District and at mile 26.8.

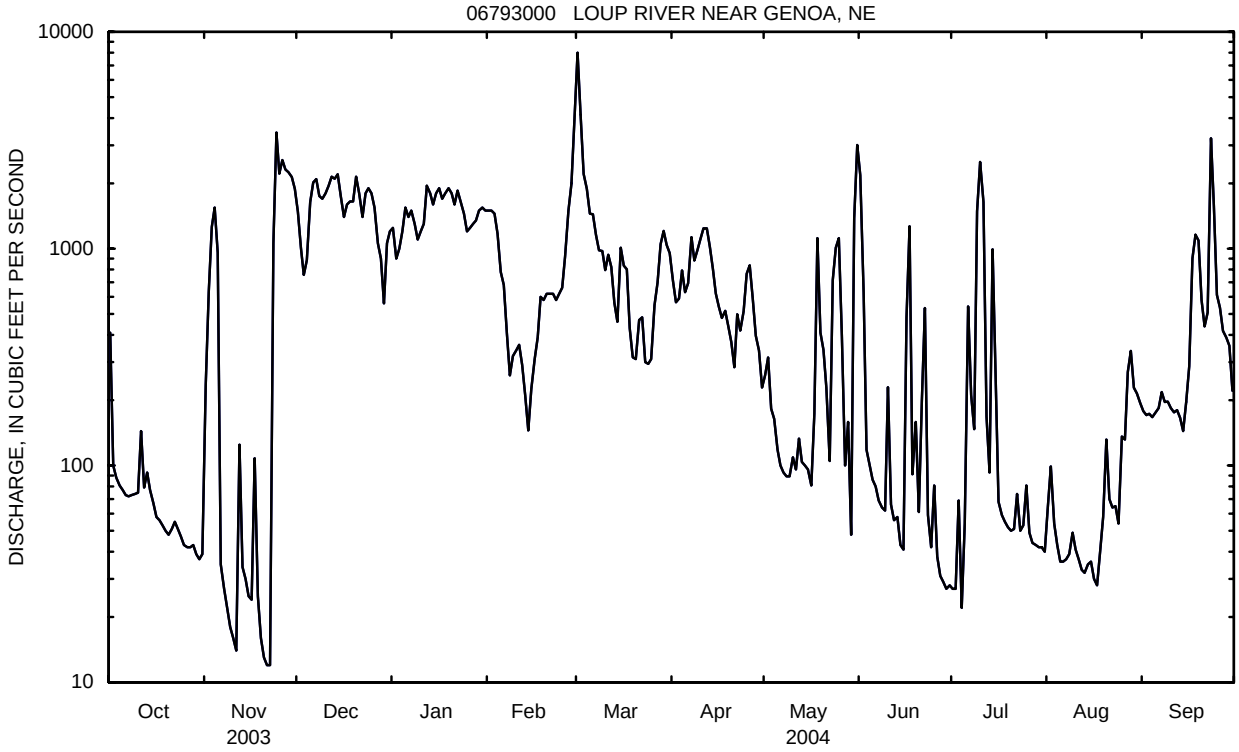
DRAINAGE AREA —14,320 mi^2, of which about 5,620 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—August 1928 to June 1932, October 1943 to current year (October 1953 to April 1955, monthly discharge only).

REVISED RECORDS—WDR NE-94-1: Drainage area. WDR NE-99-1: 1993 (maximum stage).
NOTE: The maximum stage for the 1993 water year had been revised in 1994 and is listed in the peak flow file, but the change was never actually shown in the 1994 water year report. The stage was changed from 11.01 ft July 24, 1993, to 12.69 ft Mar.8, 1993, affected by backwater from ice.

GAGE—Water-stage recorder. Datum of gage is 1,540.13 ft above sea level. Aug. 17, 1928, to June 30, 1932, non-recording gage at present site at datum 1.49 ft higher. Oct. 1, 1943, to Sept. 16, 1974, (Apr. 26 to Dec. 22, 1949, wire-weight gage only), at present site and datum. Sept. 17, 1974, to Nov. 21, 1977, at site 300 ft upstream at present datum. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Records do not include flow of Loup River power canal (station 06792500), which diverts at point 6 mi upstream and returns to Platte River below mouth of Loup River; diversion began Dec. 2, 1936.



06793000 LOUP RIVER NEAR GENOA, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	409	234	1480	e1250	e1500	e8000	713	260	2180	27	64	178
2	100	631	1010	e900	e1500	4150	566	315	627	27	99	171
3	88	1260	757	e1000	e1450	2210	589	183	118	69	54	173
4	81	1550	884	e1200	1170	1890	794	164	101	22	43	167
5	77	958	1640	e1550	e780	1450	630	118	86	54	36	175
6	73	35	2020	e1400	e680	1440	694	100	80	542	36	184
7	72	27	2090	e1500	e410	1160	1130	93	69	211	37	218
8	73	22	e1750	e1300	e260	985	881	89	64	147	39	196
9	74	18	e1700	e1100	e320	975	985	89	62	1490	49	197
10	75	16	e1800	e1200	e340	796	1110	109	230	2510	41	184
11	144	14	e1950	e1300	e360	939	1240	96	66	1640	37	176
12	79	125	e2150	e1950	e290	821	1240	133	56	168	33	180
13	93	34	e2100	e1800	e210	562	1020	104	58	93	32	166
14	77	30	e2200	e1600	e145	460	806	100	43	994	35	144
15	67	25	e1750	e1800	e225	1010	621	96	41	256	36	196
16	58	24	e1400	e1900	e310	836	539	81	482	68	30	287
17	56	108	e1600	e1700	e390	805	479	173	1270	59	28	902
18	53	25	e1650	e1800	e600	430	516	1120	91	55	40	1160
19	50	16	e1650	e1900	e580	316	439	410	159	52	58	1090
20	48	13	e2150	e1800	e620	310	371	341	61	50	132	580
21	51	12	e1800	e1600	e620	468	284	228	200	51	70	438
22	55	12	e1400	e1850	e620	483	498	105	533	74	64	508
23	51	1060	e1800	e1650	e580	300	419	715	59	50	65	3230
24	47	3430	e1900	e1450	e620	294	514	1010	42	53	54	1580
25	43	2220	e1800	e1200	e660	310	767	1120	81	81	136	612
26	42	2560	e1550	e1250	e920	549	838	395	38	49	132	535
27	42	2320	e1060	e1300	e1500	697	588	100	31	44	270	417
28	43	2250	e900	e1350	e2000	1050	396	159	29	43	338	389
29	39	2140	e560	e1500	e4000	1210	339	48	27	42	228	357
30	37	1890	e1060	e1550	---	1040	229	1380	28	42	215	221
31	39	---	e1200	e1500	---	952	---	3010	---	40	194	---
TOTAL	2336	23059	48761	46150	23660	36898	20235	12444	7012	9103	2725	15011
MEAN	75.4	769	1573	1489	816	1190	674	401	234	294	87.9	500
MAX	409	3430	2200	1950	4000	8000	1240	3010	2180	2510	338	3230
MIN	37	12	560	900	145	294	229	48	27	22	28	144
AC-FT	4630	45740	96720	91540	46930	73190	40140	24680	13910	18060	5410	29770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2004, BY WATER YEAR (WY)

MEAN	150	448	1078	981	1346	1664	697	626	862	357	245	236
MAX	1084	1650	2533	2632	4762	5650	3745	4777	7365	6214	4253	2055
(WY)	1999	1992	1998	1990	1997	1978	1984	1984	1947	1993	1966	1998
MIN	3.76	41.1	177	67.5	72.4	95.0	18.5	8.18	7.54	0.17	1.15	0.00
(WY)	1977	1953	1956	1982	1955	1981	1981	1963	1981	1963	1970	1956

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1944 - 2004	
ANNUAL TOTAL	192712		247394			
ANNUAL MEAN	528		676		721	
HIGHEST ANNUAL MEAN					1993	1993
LOWEST ANNUAL MEAN					182	1963
HIGHEST DAILY MEAN	5040	May 5	8000	Mar 1	70800	Aug 13 1966
LOWEST DAILY MEAN	12	Nov 21	12	Nov 21	0.00	Aug 20 1956
ANNUAL SEVEN-DAY MINIMUM	30	Nov 16	30	Jun 26	0.00	Aug 20 1956
MAXIMUM PEAK FLOW			*9000	Mar 1	**129000	Aug 13 1966
MAXIMUM PEAK STAGE			***9.49	Feb 28	13.93	Aug 13 1966
ANNUAL RUNOFF (AC-FT)	382200		490700		522500	
10 PERCENT EXCEEDS	1750		1800		2050	
50 PERCENT EXCEEDS	126		338		126	
90 PERCENT EXCEEDS	37		39		14	

e Estimated
* Estimated, backwater from ice, stage 7.98 ft
** From rating curve extended above 42000 ft^3/s, on basis of indirect measurement
*** Backwater from ice

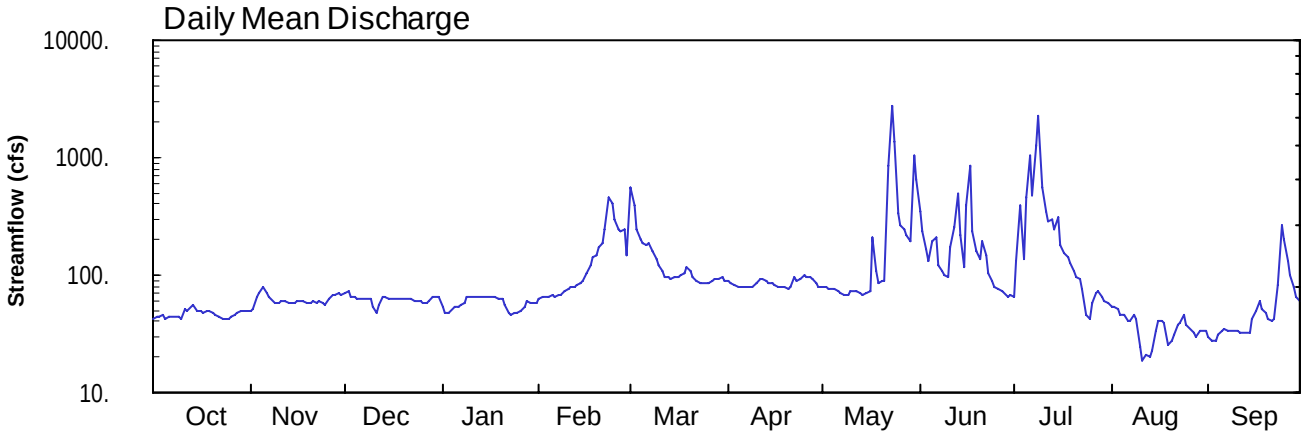
2004 Water Year

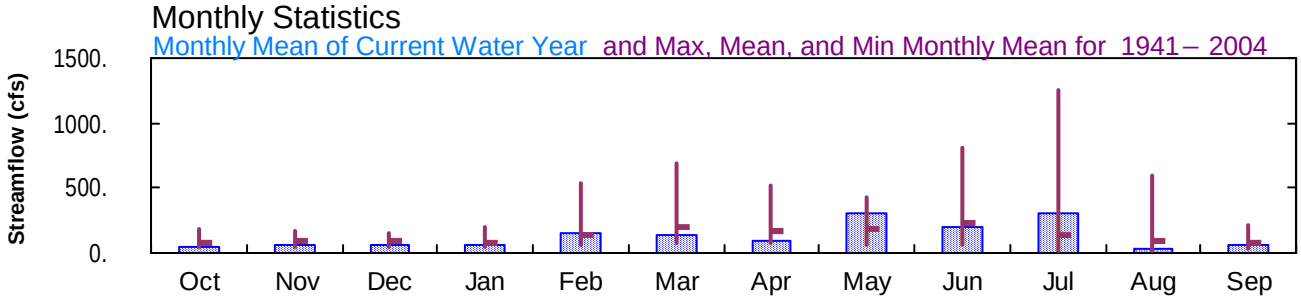
PLATTE RIVER BASIN

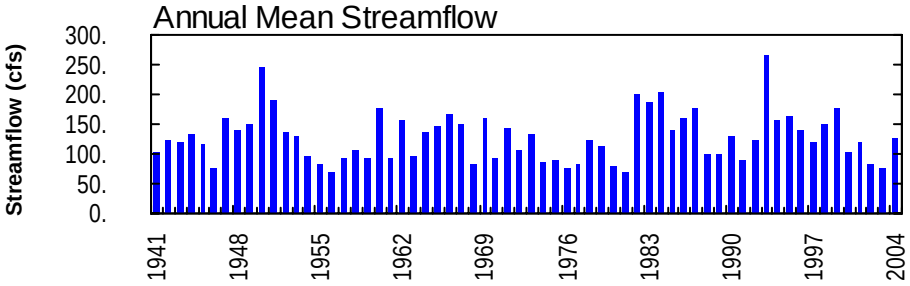
06794000 BEAVER CREEK AT GENOA, NEBR.

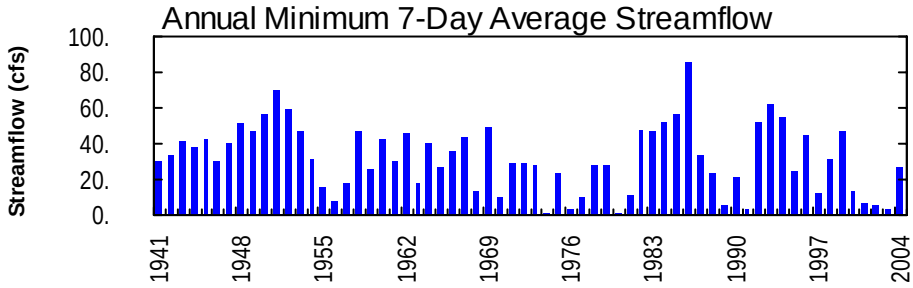
Latitude: 41°26'32" Longitude: 097°44'11" Hydrologic Unit Code: 10210009

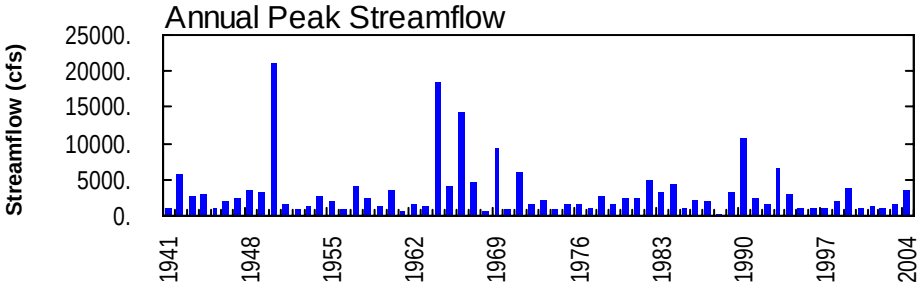
Nance County Datum: 1542.13 feet Drainage Area: 677. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06794000 BEAVER CREEK AT GENOA, NE

LOCATION—Lat 41°26'32", long 97°44'11", in NE 1/4 SE 1/4 sec.14, T.17 N., R.4 W., Nance County, Hydrologic Unit 10210009, on left bank in city park at southwest corner of Genoa, 0.2 mi downstream from Union Pacific Railroad bridge, 0.2 mi upstream from bridge on State Highway 39, and 4.0 mi upstream from mouth.

DRAINAGE AREA —677 mi^2, of which about 429 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—October 1940 to current year.

REVISED RECORDS—WSP 1310: 1942(M). WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,542.13 ft above sea level. October 1940 to Nov. 5, 1942, non-recording gage and Nov. 6, 1942, to Nov. 1, 1955, water-stage recorder, at site 0.4 mi upstream at datum 4.62 ft higher. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, which are poor. Natural flow affected slightly by ground-water and surface-water withdrawals for irrigation.

06794000 BEAVER CREEK AT GENOA, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	50	e70	e54	e62	560	88	78	352	64	54	30
2	44	51	72	e48	e64	388	86	79	239	131	53	28
3	44	66	66	e48	e64	249	82	77	164	395	51	28
4	45	70	64	e50	e66	202	80	77	134	136	46	31
5	43	80	62	e54	e68	189	79	77	196	450	45	33
6	44	70	e62	e54	e66	182	79	74	213	1030	40	35
7	44	64	e62	e56	e68	185	79	71	120	476	40	34
8	44	60	e62	e58	e68	159	78	69	109	1240	46	33
9	44	59	62	e64	e74	136	79	69	100	2260	42	33
10	43	59	e54	e64	e76	123	86	73	95	555	25	33
11	52	60	e48	e64	e78	107	94	72	175	344	19	32
12	49	60	e56	e66	e78	98	92	72	251	283	21	32
13	53	58	e64	e64	e82	96	89	70	501	297	20	32
14	55	57	e64	e64	e84	92	87	68	220	249	23	32
15	49	59	e62	e66	e90	96	85	70	119	310	34	43
16	49	60	e62	e66	e104	95	82	72	398	183	41	49
17	48	60	e62	e64	e120	99	80	213	864	156	40	60
18	49	60	e62	e64	e140	105	79	110	239	142	39	52
19	49	59	e62	e62	e150	116	78	87	160	124	26	47
20	47	59	e62	e62	e175	109	77	88	136	110	28	43
21	45	60	e62	e56	e190	98	79	88	193	98	31	41
22	44	59	e62	e48	249	90	95	862	148	91	37	42
23	43	60	e60	e46	466	87	89	2780	104	75	39	83
24	43	e58	e60	e48	411	86	91	1370	90	46	46	266
25	43	e56	e60	e48	298	86	99	337	80	43	38	204
26	44	e62	e58	e50	246	86	96	267	75	59	35	132
27	46	e68	e58	e54	240	90	98	243	74	70	32	99
28	48	e68	e60	e60	247	92	91	219	70	72	30	78
29	49	e70	e66	e58	149	94	86	195	66	66	34	66
30	49	e68	e66	e58	---	95	80	1030	68	61	34	61
31	49	---	e66	e58	---	90	---	643	---	59	33	---
TOTAL	1441	1850	1918	1776	4273	4380	2563	9700	5753	9675	1122	1812
MEAN	46.5	61.7	61.9	57.3	147	141	85.4	313	192	312	36.2	60.4
MAX	55	80	72	66	466	560	99	2780	864	2260	54	266
MIN	43	50	48	46	62	86	77	68	66	43	19	28
AC-FT	2860	3670	3800	3520	8480	8690	5080	19240	11410	19190	2230	3590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2004, BY WATER YEAR (WY)

MEAN	80.6	88.0	84.7	83.4	133	195	166	179	227	140	90.6	80.0
MAX	184	173	150	197	537	688	519	432	808	1248	601	216
(WY)	1987	1983	1973	1973	1971	1993	1984	1984	1967	1950	1966	1993
MIN	43.4	47.6	42.2	48.0	57.4	78.0	74.2	67.3	64.0	12.9	8.72	29.8
(WY)	1981	1941	1977	1957	1979	1981	1981	1981	1980	1980	1976	1976

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1941 - 2004	
ANNUAL TOTAL	27072.2		46263			
ANNUAL MEAN	74.2		126		129	
HIGHEST ANNUAL MEAN					268	1993
LOWEST ANNUAL MEAN					70.9	1981
HIGHEST DAILY MEAN	771	May 4	2780	May 23	10000	Jul 19 1950
LOWEST DAILY MEAN	2.2	Aug 30	19	Aug 11	0.41	Jul 25 1974
ANNUAL SEVEN-DAY MINIMUM	3.1	Aug 25	26	Aug 10	0.90	Jul 24 1974
MAXIMUM PEAK FLOW			3450	Jul 9	21200	Jul 19 1950
MAXIMUM PEAK STAGE			13.85	Jul 9	*18.70	Jul 19 1950
ANNUAL RUNOFF (AC-FT)	53700		91760		93340	
10 PERCENT EXCEEDS	109		239		209	
50 PERCENT EXCEEDS	62		68		89	
90 PERCENT EXCEEDS	26		41		48	

e Estimated
* Site and datum then in use

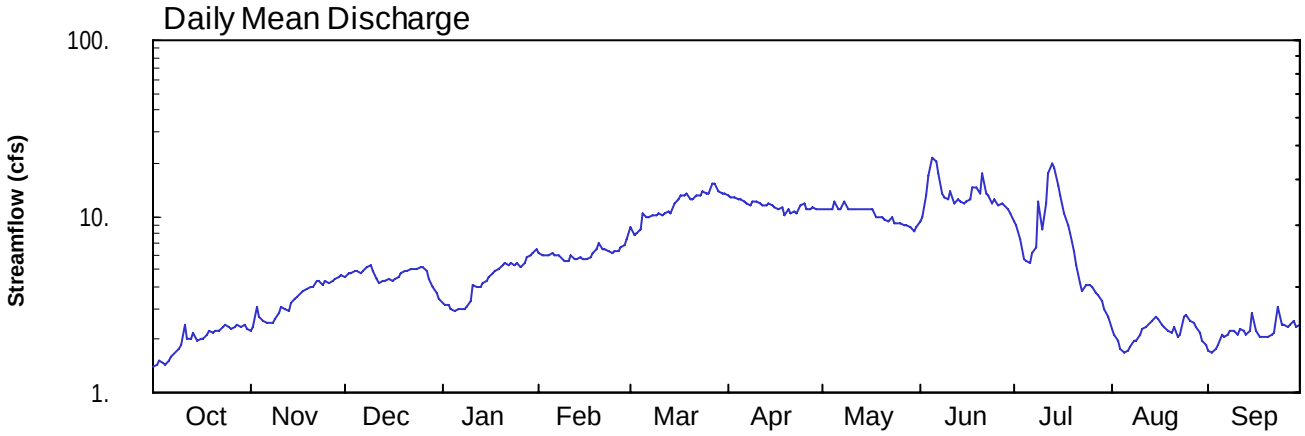
2004 Water Year

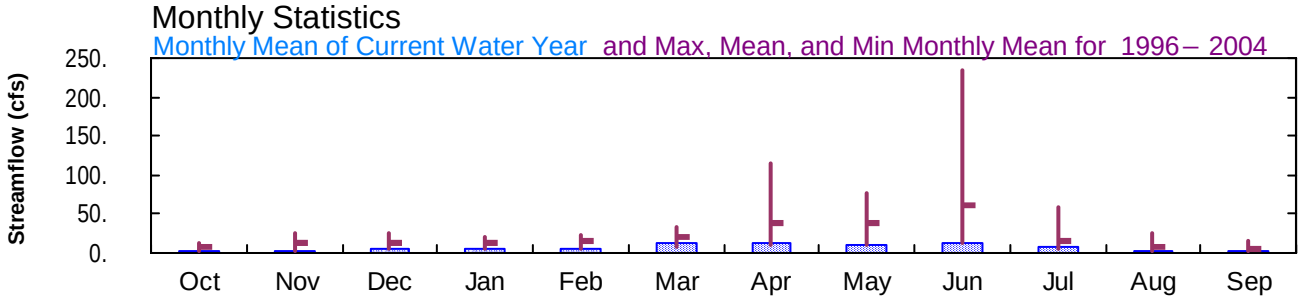
PLATTE RIVER BASIN

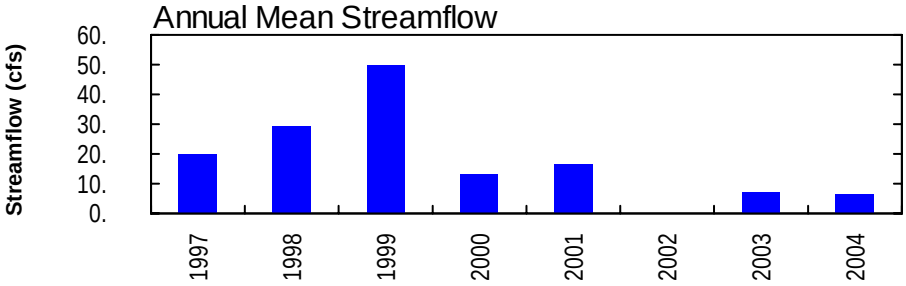
06794650 CLEAR CR 1.75MI W OF POLK CO LINE, NE

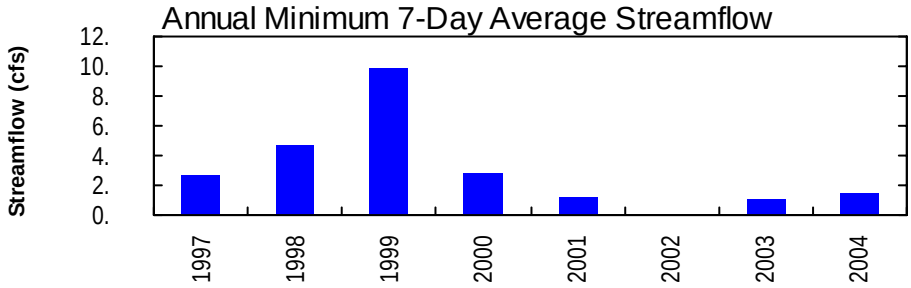
Latitude: 41°21'07" Longitude: 097°24'12" Hydrologic Unit Code: 10200103

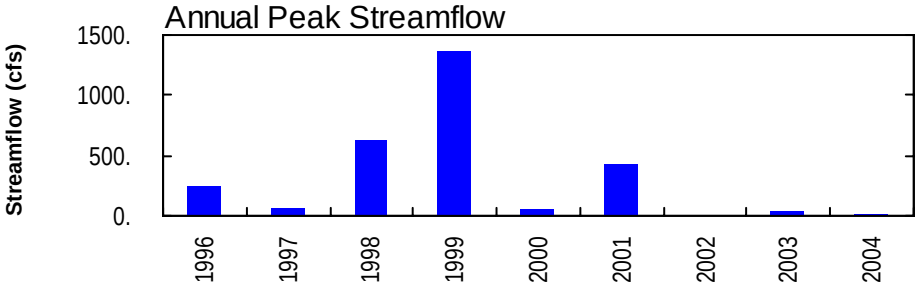
Polk County Datum: feet Drainage Area: mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06794650 CLEAR CREEK 1.75 MILE WEST OF POLK COUNTY LINE, NE

LOCATION—Lat 41°21'07", long 97°24'11", in SE 1/4 SW 1/4, sec.19, T.16 N., R.1 W., Polk County, Hydrologic Unit 10200103, on right bank of the upstream side of bridge, 1.75 mi west of Polk County line.

PERIOD OF RECORD—March 1996 to September 2001. October 2002 to September 2003.

GAGE—Water-stage recorder. Elevation of gage is 1,480 ft from topographic map.

REMARKS—Records good except for estimated daily discharges, which are poor.

06794650 CLEAR CREEK 1.75 MILE WEST OF POLK CO LINE, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.3	4.5	e3.3	e6.2	8.7	13	11	9.4	9.4	2.3	1.7
2	1.4	2.4	4.7	e3.1	e6.0	7.8	13	11	10	8.8	2.1	1.7
3	1.5	3.0	4.8	e3.2	e6.0	8.0	13	11	13	7.4	2.0	1.8
4	1.5	2.7	4.8	e3.0	e6.0	8.5	13	11	17	5.8	1.8	1.9
5	1.4	2.5	4.9	e2.9	e6.1	10	12	12	22	5.6	1.7	2.1
6	1.5	2.5	4.8	e2.9	e6.1	9.9	12	11	21	5.5	1.7	2.0
7	1.6	2.5	4.9	e3.0	e6.0	9.8	12	11	17	6.2	1.8	2.1
8	1.7	2.5	5.2	e3.0	e5.9	10	12	12	14	6.7	1.9	2.2
9	1.8	2.6	5.3	e3.0	e5.6	10	12	11	13	12	2.0	2.2
10	1.9	2.8	4.8	e3.3	e5.6	10	12	11	12	8.5	2.1	2.2
11	2.4	3.0	4.4	e4.0	e6.0	10	12	11	14	12	2.3	2.3
12	2.0	3.0	4.2	3.9	e5.8	10	12	11	12	18	2.3	2.2
13	2.0	2.9	4.2	4.0	e5.8	11	12	11	12	20	2.5	2.1
14	2.2	3.2	4.3	4.2	e5.9	10	12	11	12	19	2.5	2.3
15	2.0	3.4	4.4	4.3	5.8	12	12	11	12	15	2.7	2.8
16	2.0	3.5	4.3	4.6	5.8	12	11	11	12	13	2.6	2.3
17	2.0	3.7	4.4	4.8	5.8	13	11	11	13	10	2.4	2.1
18	2.1	3.8	e4.6	4.9	6.1	13	11	10	15	9.0	2.4	2.1
19	2.2	3.8	e4.8	5.1	6.5	13	10	10	15	7.9	2.2	2.1
20	2.2	4.0	e4.9	5.3	7.0	13	11	10	14	6.3	2.2	2.1
21	2.3	4.0	e4.9	5.4	6.6	12	11	9.7	18	5.2	2.3	2.1
22	2.3	4.3	e5.0	5.2	6.6	13	11	9.4	14	4.2	2.1	2.2
23	2.4	4.3	e5.0	5.4	6.4	13	10	10	13	3.8	2.1	3.1
24	2.4	4.1	e5.0	5.2	6.2	14	12	9.1	12	4.1	2.7	2.4
25	2.3	4.3	e5.1	5.4	6.3	14	12	9.1	12	4.1	2.7	2.4
26	2.3	4.2	e5.1	e5.2	6.4	14	11	9.1	12	3.9	2.6	2.4
27	2.4	4.3	e4.9	e5.4	6.6	16	11	8.9	12	3.7	2.5	2.4
28	2.4	4.4	e4.4	e5.9	6.8	15	11	8.9	11	3.6	2.4	2.5
29	2.4	4.5	e4.0	e6.0	7.5	14	11	8.6	11	3.3	2.2	2.3
30	2.4	4.7	e3.6	e6.1	---	13	11	8.3	10	3.0	2.0	2.4
31	2.3	---	e3.4	e6.5	---	13	---	8.6	---	2.7	1.9	---
TOTAL	62.7	103.2	143.6	137.5	179.4	360.7	349	318.7	404.4	247.7	69.0	66.5
MEAN	2.02	3.44	4.63	4.44	6.19	11.6	11.6	10.3	13.5	7.99	2.23	2.22
MAX	2.4	4.7	5.3	6.5	7.5	16	13	12	22	20	2.7	3.1
MIN	1.4	2.3	3.4	2.9	5.6	7.8	10	8.3	9.4	2.7	1.7	1.7
AC-FT	124	205	285	273	356	715	692	632	802	491	137	132

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	7.52	12.3	12.9	11.9	14.4	19.7	37.8	37.9	60.0	15.5	7.89	5.29
MAX	13.2	26.0	25.0	20.1	24.1	33.5	114	75.5	234	58.6	25.8	15.2
(WY)	1997	1997	1997	1999	1999	1999	1998	1999	1999	1999	1996	1996
MIN	2.02	3.44	4.63	4.44	4.80	8.08	9.93	10.3	13.5	4.57	1.34	1.58
(WY)	2004	2004	2004	2004	2003	2003	2003	2004	2004	2002	2003	2003

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL TOTAL	2525.49		2442.4			
ANNUAL MEAN	6.92		6.67		20.5	
HIGHEST ANNUAL MEAN					50.3	1999
LOWEST ANNUAL MEAN					6.67	2004
HIGHEST DAILY MEAN	31	Jun 23	22	Jun 5	1160	Jun 2 1999
LOWEST DAILY MEAN	0.67	Aug 16	1.4	Oct 1	0.67	Aug 16 2003
ANNUAL SEVEN-DAY MINIMUM	1.0	Aug 11	1.5	Oct 1	1.0	Aug 11 2003
MAXIMUM PEAK FLOW			23	Jun 5	1360	Jun 2 1999
MAXIMUM PEAK STAGE			5.13	Jun 5	*8.65	Jun 2 1999
ANNUAL RUNOFF (AC-FT)	5010		4840		14870	
10 PERCENT EXCEEDS	16		13		34	
50 PERCENT EXCEEDS	4.8		5.2		13	
90 PERCENT EXCEEDS	1.4		2.1		2.9	

e Estimated
* From floodmark

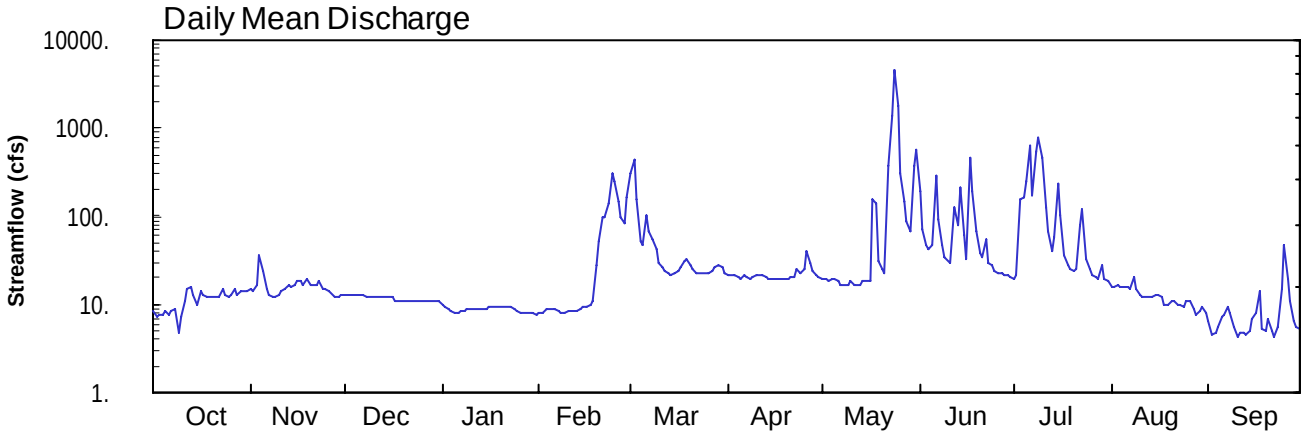
2004 Water Year

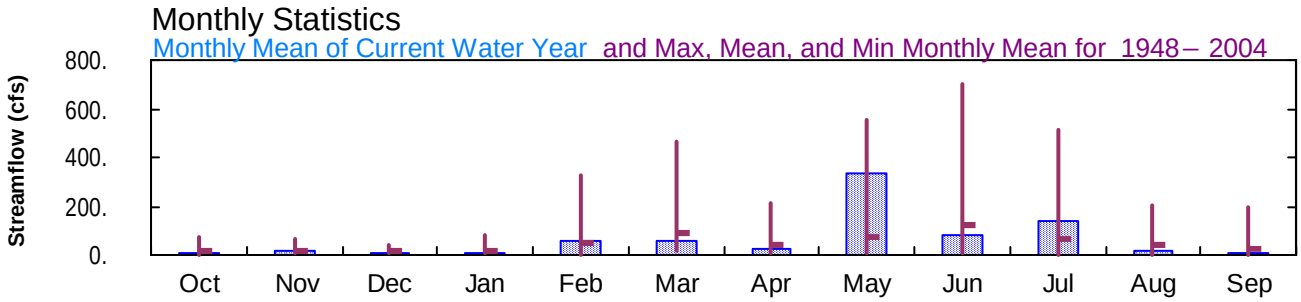
PLATTE RIVER BASIN

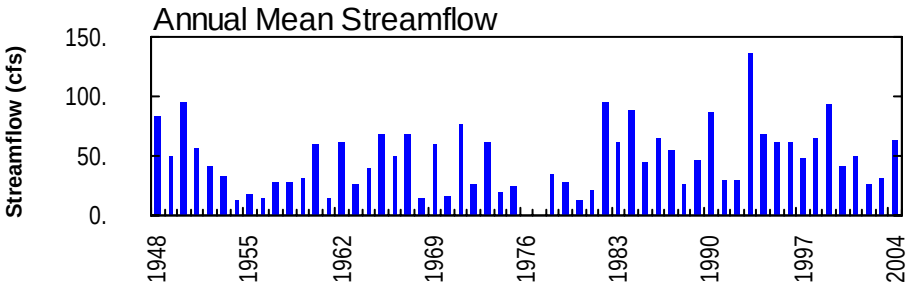
06795500 SHELL CREEK NEAR COLUMBUS, NEBR.

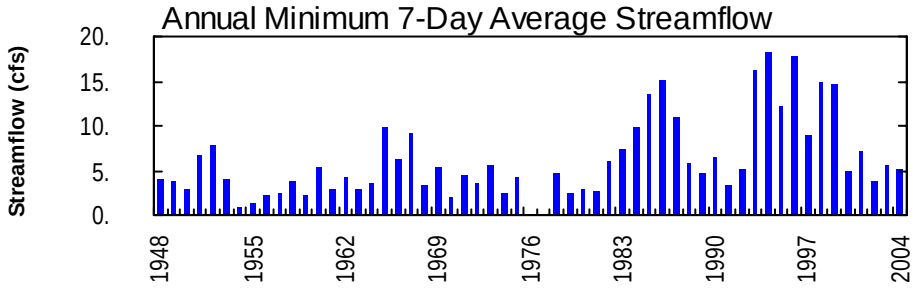
Latitude: 41°31'33" Longitude: 097°16'53" Hydrologic Unit Code: 10200201

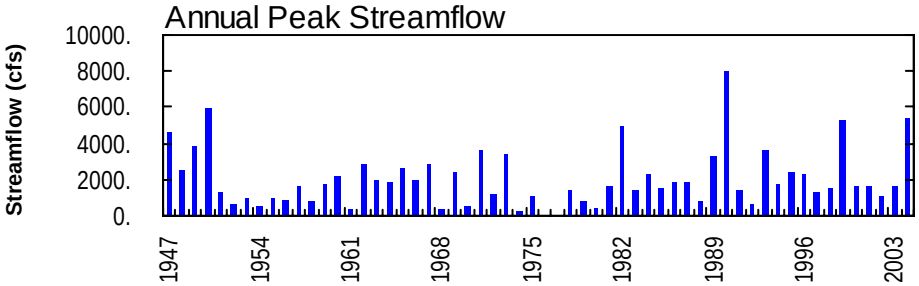
Platte County Datum: 1435.00 feet Drainage Area: 306. mi²











NO PHOTOS AVAILABLE FOR THIS SITE

06795500 SHELL CREEK NEAR COLUMBUS, NE

LOCATION—Lat 41°31'33", long 97°16'55", in NE 1/4 NW 1/4 sec.23, T.18 N., R.1 E., Platte County, Hydrologic Unit 10200201, on right bank 10 ft upstream from county road bridge, 1 mi upstream from Loseke Creek, 7 mi northeast of Columbus, and at mile 32.2.

DRAINAGE AREA—294 mi^2.

PERIOD OF RECORD—August 1947 to September 1975, October 1977 to current year.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Elevation of gage is 1,435 ft above sea level. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

06795500 SHELL CREEK NEAR COLUMBUS, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	15	e13	e10	e7.9	300	22	19	192	19	16	6.5
2	7.1	14	e13	e9.6	e8.2	438	21	19	70	21	16	4.5
3	7.7	17	e13	e9.0	e8.7	153	21	18	47	158	17	4.7
4	7.7	36	e13	e8.4	e8.7	51	20	19	42	165	16	5.6
5	8.3	24	e13	e8.0	e8.7	48	19	19	46	250	16	7.3
6	7.8	15	e13	e8.0	e8.7	105	22	18	296	628	16	7.7
7	8.6	13	e13	e8.3	e8.4	67	20	17	91	169	15	9.2
8	8.8	12	e12	e8.6	e8.0	56	19	17	47	532	20	8.1
9	4.7	12	e12	e8.7	e8.0	42	20	17	35	761	15	5.5
10	7.4	13	e12	e8.7	e8.4	29	21	18	31	473	13	4.3
11	11	14	e12	e8.9	e8.5	26	22	17	30	128	12	4.8
12	15	15	e12	e9.0	e8.5	24	21	17	129	66	12	4.8
13	16	17	e12	e9.0	e8.6	23	20	17	81	41	12	4.5
14	13	16	e12	e9.0	e9.0	22	19	18	213	59	12	5.0
15	10	17	e12	e9.1	e9.4	23	19	18	61	239	13	6.8
16	14	18	e12	e9.3	e9.6	24	19	18	32	101	13	8.0
17	13	18	e11	e9.3	e10	27	19	155	476	37	12	14
18	12	17	e11	e9.2	e11	31	19	140	196	28	10	5.2
19	12	19	e11	e9.2	e28	33	19	31	66	25	10	4.9
20	12	17	e11	e9.2	e52	28	19	25	38	24	11	7.0
21	12	17	e11	e9.2	95	25	20	23	34	25	11	5.0
22	12	17	e11	e9.2	97	23	20	386	54	78	10	4.2
23	15	18	e11	e9.2	138	23	25	1400	29	120	9.8	5.7
24	13	15	e11	e8.9	302	23	23	4660	28	33	9.5	15
25	12	e15	e11	e8.6	252	23	25	1820	24	25	11	46
26	13	e14	e11	e8.2	147	23	40	299	23	22	11	19
27	15	e13	e11	e8.0	96	24	29	145	23	20	9.0	11
28	13	e12	e11	e8.0	85	27	24	90	22	19	7.7	6.6
29	14	e12	e11	e7.9	160	28	22	67	21	28	8.3	5.7
30	14	e13	e11	e7.9	---	26	20	381	20	19	9.5	5.3
31	14	---	e11	e7.8	---	23	---	561	---	18	8.2	---
TOTAL	351.7	485	364	271.4	1610.3	1818	649	10469	2497	4331	382.0	251.9
MEAN	11.3	16.2	11.7	8.75	55.5	58.6	21.6	338	83.2	140	12.3	8.40
MAX	16	36	13	10	302	438	40	4660	476	761	20	46
MIN	4.7	12	11	7.8	7.9	22	19	17	20	18	7.7	4.2
AC-FT	698	962	722	538	3190	3610	1290	20770	4950	8590	758	500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2004, BY WATER YEAR (WY)

MEAN	17.7	17.8	15.5	18.7	50.6	93.5	42.3	75.1	122	65.9	37.2	24.1
MAX	74.6	62.9	42.2	84.7	322	469	210	552	702	515	202	195
(WY)	1983	1999	1994	1973	1971	1993	1984	1982	1990	1993	1951	1989
MIN	2.90	5.21	5.38	6.03	3.00	13.1	8.14	8.59	9.25	3.77	3.03	3.23
(WY)	1959	1959	1981	1957	1950	1981	1981	1981	1980	1974	1955	1980

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1948 - 2004	
ANNUAL TOTAL	11728.7		23480.3			
ANNUAL MEAN	32.1		64.2		48.3	
HIGHEST ANNUAL MEAN					136	1993
LOWEST ANNUAL MEAN					13.6	1980
HIGHEST DAILY MEAN	1400	May 5	4660	May 24	4900	Jun 17 1990
LOWEST DAILY MEAN	3.6	Aug 13	4.2	Sep 22	0.00	Dec 22 1989
ANNUAL SEVEN-DAY MINIMUM	5.7	Sep 23	5.1	Sep 9	0.86	Jul 22 1954
MAXIMUM PEAK FLOW			5430	May 24	8000	Jun 17 1990
MAXIMUM PEAK STAGE			18.77	May 24	22.76	Jun 17 1990
ANNUAL RUNOFF (AC-FT)	23260		46570		34990	
10 PERCENT EXCEEDS	40		102		66	
50 PERCENT EXCEEDS	16		16		17	
90 PERCENT EXCEEDS	7.7		8.0		6.1	

e Estimated

2004 Water Year

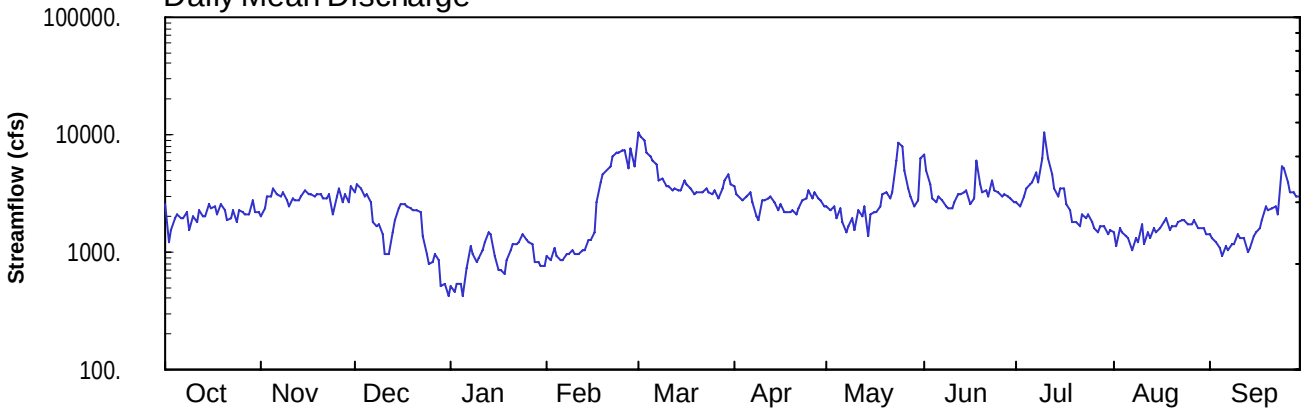
PLATTE RIVER BASIN

06796000 PLATTE RIVER AT NORTH BEND, NEBR.

Latitude: 41°27'10" Longitude: 096°46'32" Hydrologic Unit Code: 10200201

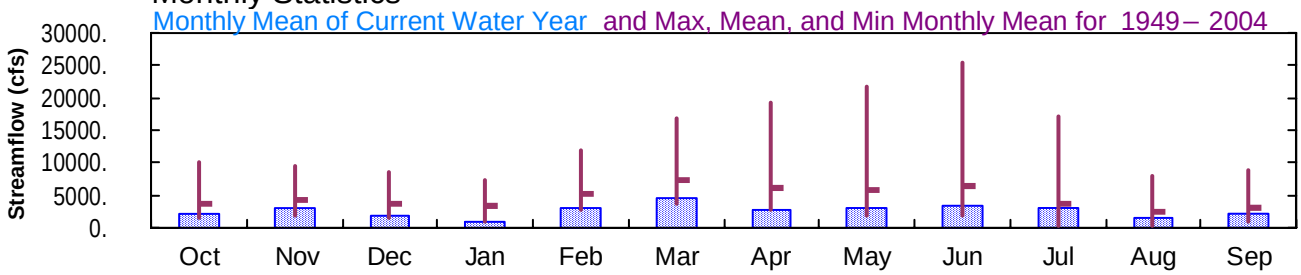
Dodge County Datum: 1262.32 feet Drainage Area: 70400 mi²

Daily Mean Discharge

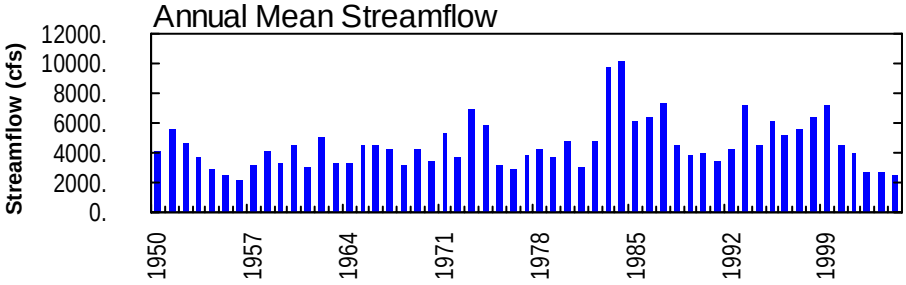


Monthly Statistics

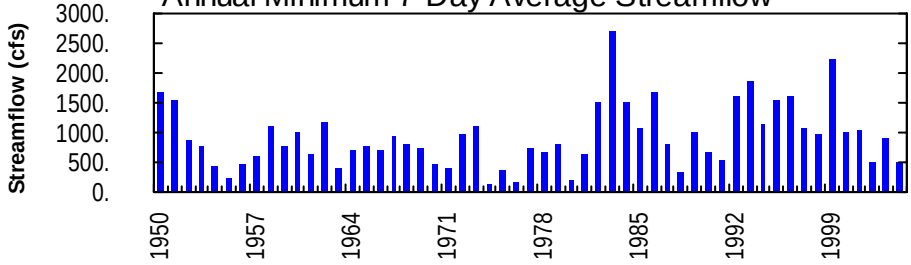
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1949 – 2004



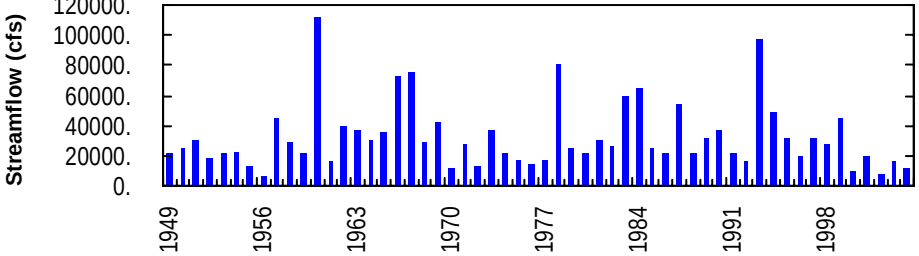
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



NO PHOTOS AVAILABLE FOR THIS SITE

06796000 PLATTE RIVER AT NORTH BEND, NE

LOCATION—Lat 41°27'10", long 96°45'50", in SE 1/4 sec. 7., T. 17 N., R. 6 E., Dodge County, Hydrologic Unit 10200202, on left bank 80 ft upstream from bridge on State Highway 79, 1 mi south of North Bend, 5 mi downstream from Shell Creek, and at mile 73.0.

DRAINAGE AREA—70,400 mi2, of which about 57,800 mi2 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 above 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 higher. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by trans-mountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

06796000 PLATTE RIVER AT NORTH BEND, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2520	2050	3250	e510	e914	e10300	3580	2490	6640	2670	1480	1410
2	1210	2390	3730	e452	e863	e9600	3160	2250	4960	2440	1110	1340
3	1560	2980	3510	e538	e1070	8770	2880	2500	3820	3010	1620	1220
4	1940	2960	3030	e538	e914	7070	2730	1970	2920	3450	1480	1080
5	2120	3430	3130	e423	e863	6540	2950	2320	2660	3730	1360	942
6	1910	3130	2680	e740	e863	5990	3280	1800	2950	3910	1290	1110
7	1910	2960	e1810	e1110	e966	5550	2630	1470	2790	4770	1030	1040
8	2220	3230	e1690	e970	e966	4090	2030	1690	2500	3890	1310	1160
9	1540	2730	e1720	e826	e1020	4270	1860	1930	2320	6140	1200	1190
10	2030	2450	e1430	e884	e966	3670	2720	1550	2380	10300	1700	1430
11	1770	2880	e974	e1060	e966	3620	2710	2240	2670	6270	1160	1320
12	2310	2790	e974	e1230	e1050	3390	2880	1980	3080	4650	1490	1300
13	2010	2750	e1460	e1490	e1050	3500	2930	2460	3080	3550	1320	1000
14	2030	2930	e1900	e1430	e1260	3410	2640	1360	3180	3000	1570	1090
15	2590	3330	e2330	e912	e1260	3290	2240	2140	3290	3550	1450	1370
16	2400	3150	e2590	e711	e1470	4050	2520	2180	2520	3420	1600	1500
17	2420	3130	e2560	e707	e2610	3780	2200	2170	2830	2550	1790	1580
18	2070	2990	e2410	e655	e3960	3500	2220	2490	6040	2310	1920	1900
19	2590	3150	e2360	e863	e4580	3150	2190	3160	3790	1830	1540	2420
20	2240	3130	e2300	e1020	e5040	3180	2240	3220	3200	1800	1670	2280
21	1880	2900	e2240	e1170	e5460	3250	2130	2910	3290	1670	1680	2360
22	1970	2830	e2150	e1170	e6390	3200	2350	3240	3040	2060	1810	2460
23	2280	3110	e1350	e1230	e6910	3450	2750	6110	4050	1910	1900	2090
24	1770	2110	e945	e1430	e7170	3230	2910	8390	3340	2110	1900	5270
25	2280	3040	e802	e1280	e7370	3100	3310	7830	3240	1790	1720	5130
26	2220	3460	e830	e1230	e7430	3310	2850	4930	3040	1620	1720	3850
27	2060	2620	e945	e1170	e5250	2840	3230	3430	3060	1460	1850	3170
28	2100	3110	e859	e811	e7480	3460	2850	2960	2930	1650	1590	3170
29	2780	2670	e514	e811	e5410	4010	2740	2460	2850	1650	1620	2950
30	2210	3650	e542	e759	---	4650	2440	2790	2690	1430	1570	2930
31	2200	---	e427	e759	---	3840	---	6310	---	1540	1400	---
TOTAL	65140	88040	57442	28889	91521	139060	80150	94730	99150	96130	47850	61062
MEAN	2101	2935	1853	932	3156	4486	2672	3056	3305	3101	1544	2035
MAX	2780	3650	3730	1490	7480	10300	3580	8390	6640	10300	1920	5270
MIN	1210	2050	427	423	863	2840	1860	1360	2320	1430	1030	942
AC-FT	129200	174600	113900	57300	181500	275800	159000	187900	196700	190700	94910	121100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004, BY WATER YEAR (WY)

MEAN	3787	4148	3575	3408	5238	7274	6015	5888	6497	3644	2477	3042
MAX	10130	9462	8581	7361	11850	16870	19400	21770	25340	17070	8021	9022
(WY)	1974	1985	1985	1984	1984	1993	1984	1984	1983	1993	1983	1986
MIN	1624	1938	1413	932	2689	3685	2672	1952	1932	381	442	936
(WY)	1980	1956	1956	2004	1979	1957	2004	1955	1981	1974	1955	1955

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004	
ANNUAL TOTAL	956441		949164			
ANNUAL MEAN	2620		2593		4565	
HIGHEST ANNUAL MEAN					10070	1984
LOWEST ANNUAL MEAN					2168	1956
HIGHEST DAILY MEAN	13000	May 5	10300	Mar 1	82300	Mar 10 1993
LOWEST DAILY MEAN	424	Aug 30	423	Jan 5	36	Jul 29 1974
ANNUAL SEVEN-DAY MINIMUM	703	Dec 25	490	Dec 30	146	Jul 24 1974
MAXIMUM PEAK FLOW			*11900	Jul 10	**112000	Mar 29 1960
MAXIMUM PEAK STAGE			***7.03	Mar 1	***15.55	Mar 19 1978
ANNUAL RUNOFF (AC-FT)	1897000		1883000		3307000	
10 PERCENT EXCEEDS	4150		4060		8230	
50 PERCENT EXCEEDS	2500		2340		3700	
90 PERCENT EXCEEDS	1020		973		1400	

e Estimated
* Stage 5.37 ft
** Stage 10.04 ft
*** Backwater from ice

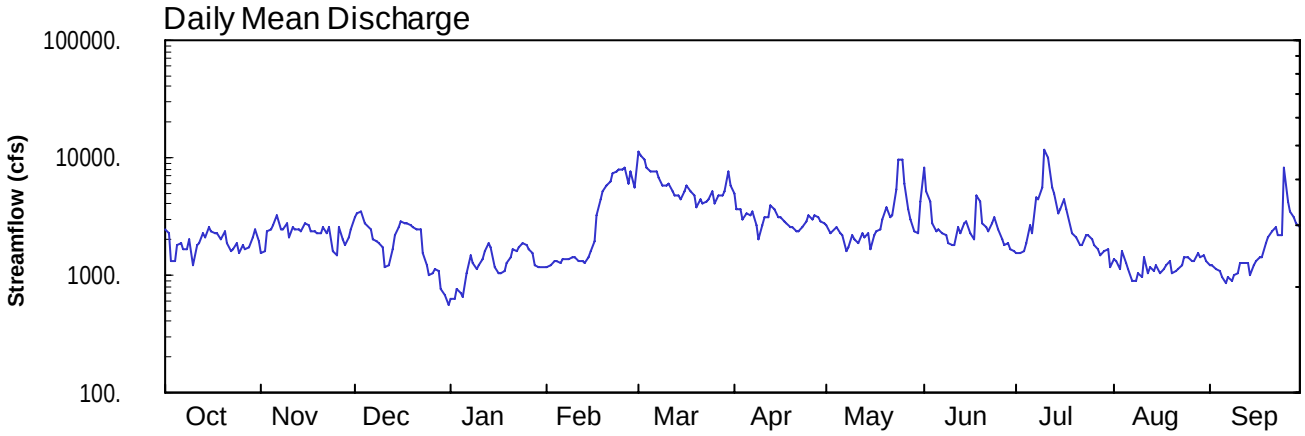
2004 Water Year

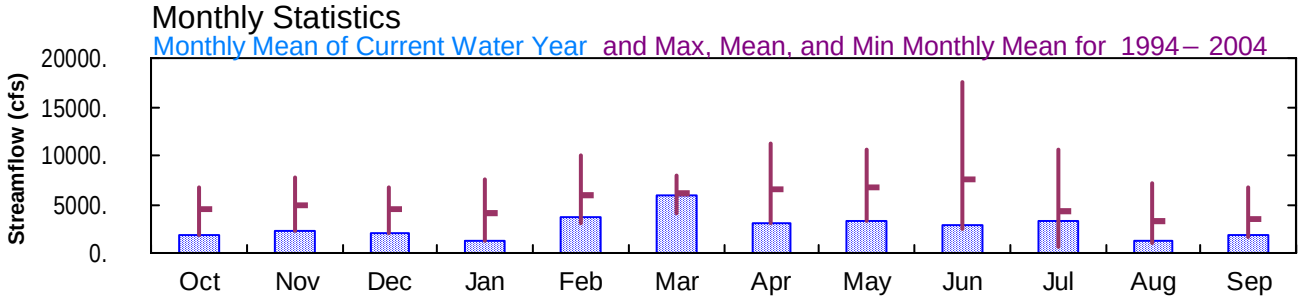
PLATTE RIVER BASIN

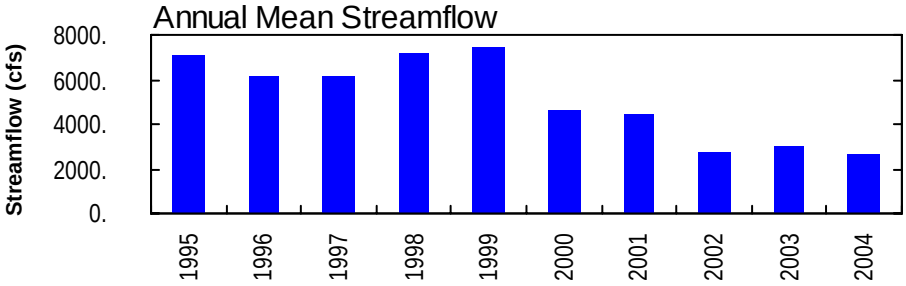
06796500 PLATTE RIVER NR LESHARA, NE

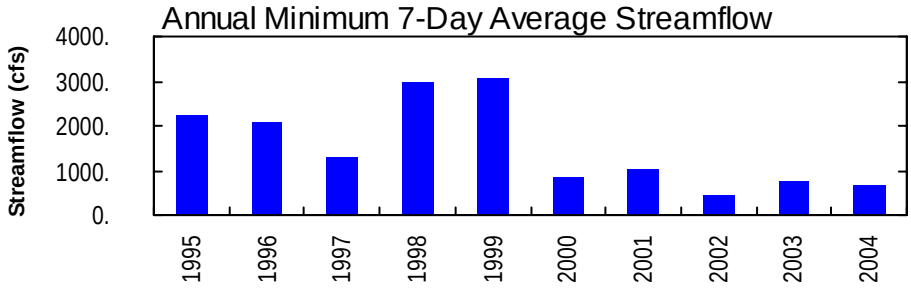
Latitude: 41° 19 ' 12" Longitude: 096° 24 ' 14" Hydrologic Unit Code: 10200202

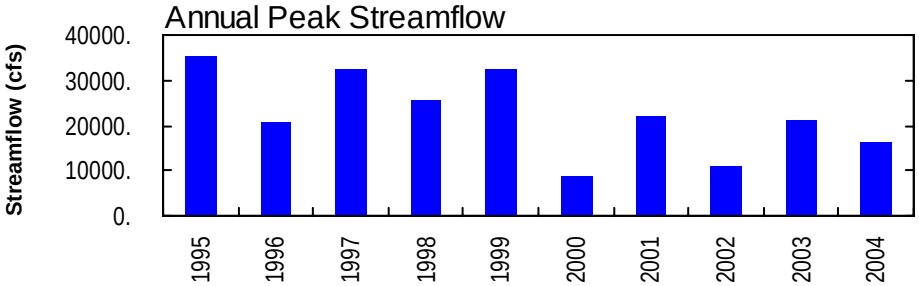
Douglas County Datum: 1143.86 feet Drainage Area: mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06796500 PLATTE RIVER NEAR LESHARA, NE

LOCATION—Lat 41°19'12", long 96°24'14", in NW 1/4 sec.34, T.16 N., R.9 E., Douglas County, Hydrologic Unit 10200202, on left bank 25 ft downstream from bridge on Nebraska Highway 64, 1.0 mi southeast of Leshara, NE.

PERIOD OF RECORD—June 1994 to current year.

GAGE—Water-stage recorder. Datum of gage is 1,143.86 ft above sea level. Data collection platform at station.

REMARKS—Records good except for those for December through March, which are poor.

06796500 PLATTE RIVER NEAR LESHARA, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2410	1520	3090	e618	e1190	11100	4900	2610	8110	1550	1350	1210
2	2280	1590	3320	e637	e1230	10600	3580	2290	5120	1530	1310	1200
3	1330	2390	3490	e758	e1330	9500	3580	2450	4250	1580	1120	1120
4	1330	2470	2720	e701	e1310	8200	2940	2520	2810	1840	1620	1070
5	1810	2630	2680	e663	e1270	7600	3420	2270	2380	2650	1260	966
6	1860	3160	2420	e1040	e1350	7600	3270	2200	2500	2310	1140	842
7	1680	2500	e2020	e1480	e1350	7500	3430	1610	2300	4540	888	951
8	1630	2470	e1940	e1270	e1350	6800	2680	1750	2160	4400	881	877
9	1980	2710	e1880	e1140	e1420	5700	2040	2210	1840	5600	1050	981
10	1230	2060	e1700	e1210	e1400	5800	2690	2000	1770	11800	956	1020
11	1770	2590	e1150	e1380	e1310	6020	3120	1880	1810	10100	1420	1280
12	1890	2470	e1220	e1570	e1300	5100	3150	2290	2500	5460	1030	1250
13	2260	2500	e1680	e1850	e1270	4800	3890	2110	2250	4860	1190	1250
14	2100	2400	e2170	e1720	e1430	4800	3670	2300	2750	3420	1080	1000
15	2540	2800	e2570	e1150	e1610	4410	3160	1680	2890	3560	1200	1200
16	2350	2620	e2850	e1020	e1930	5200	3040	2160	2280	4390	1050	1320
17	2280	2410	e2810	e1040	e3220	5850	2860	2380	2060	3570	1120	1410
18	2270	2380	e2720	e1090	e4460	5150	2760	2470	4720	2620	1220	1450
19	2040	2300	e2660	e1250	e5180	4800	2580	2950	4270	2300	1290	1850
20	2340	2300	e2570	e1400	e5710	3800	2570	3790	2760	2090	1030	2140
21	1900	2580	e2430	e1690	e6160	4400	2330	3120	2570	1770	1080	2320
22	1590	2270	e2430	e1580	e7230	4150	2330	3270	2380	1820	1140	2520
23	1670	2570	e1510	e1750	e7630	4250	2560	5370	2790	2190	1240	2150
24	1900	1570	e1200	e1890	e7940	4400	2860	9600	3090	2180	1400	2210
25	1520	1490	e996	e1790	e7980	5200	3270	9780	2440	2030	1420	8120
26	1800	2580	e1050	e1660	e8160	4100	2930	5920	1990	1810	1300	4160
27	1690	2030	e1130	e1540	e5980	4800	3280	3650	1800	1640	1300	3420
28	1730	1800	e1090	e1210	e7700	4800	3140	3000	1880	1490	1530	3140
29	2100	2090	e769	e1150	5650	5250	2830	2370	1650	1620	1440	2720
30	2450	2480	e675	e1150	---	7500	2770	2290	1600	1680	1500	2510
31	1910	---	e561	e1150	---	5740	---	4300	---	1190	1330	---
TOTAL	59640	69730	61501	39547	105050	184920	91630	98590	83720	99590	37885	57657
MEAN	1924	2324	1984	1276	3622	5965	3054	3180	2791	3213	1222	1922
MAX	2540	3160	3490	1890	8160	11100	4900	9780	8110	11800	1620	8120
MIN	1230	1490	561	618	1190	3800	2040	1610	1600	1190	881	842
AC-FT	118300	138300	122000	78440	208400	366800	181700	195600	166100	197500	75140	114400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)

MEAN	4464	4946	4529	4166	5825	6184	6539	6639	7551	4314	3331	3534
MAX	6733	7784	6762	7552	10040	7960	11300	10650	17460	10540	7163	6793
(WY)	1998	1998	1998	1998	1997	1998	1998	1995	1995	1995	1996	1996
MIN	1924	2324	1984	1276	2984	4079	3054	3180	2446	595	948	1710
(WY)	2004	2004	2004	2004	2002	2002	2004	2004	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1994 - 2004	
ANNUAL TOTAL	1019687		989460			
ANNUAL MEAN	2794		2703		5151	
HIGHEST ANNUAL MEAN					7444	1999
LOWEST ANNUAL MEAN					2703	2004
HIGHEST DAILY MEAN	14000	May 6	11800	Jul 10	29600	Jun 28 1999
LOWEST DAILY MEAN	330	Aug 31	561	Dec 31	257	Aug 3 2002
ANNUAL SEVEN-DAY MINIMUM	750	Aug 30	659	Dec 30	458	Jul 31 2002
MAXIMUM PEAK FLOW			*16200	Jul 10	**32600	Jun 2 1999
MAXIMUM PEAK STAGE			***6.41	Feb 28	***11.84	Feb 9 1996
ANNUAL RUNOFF (AC-FT)	2023000		1963000		3732000	
10 PERCENT EXCEEDS	4610		5200		8740	
50 PERCENT EXCEEDS	2500		2230		4700	
90 PERCENT EXCEEDS	1050		1140		1700	

e Estimated
* Stage 5.98 ft
** Stage 7.47 ft
*** Backwater from ice

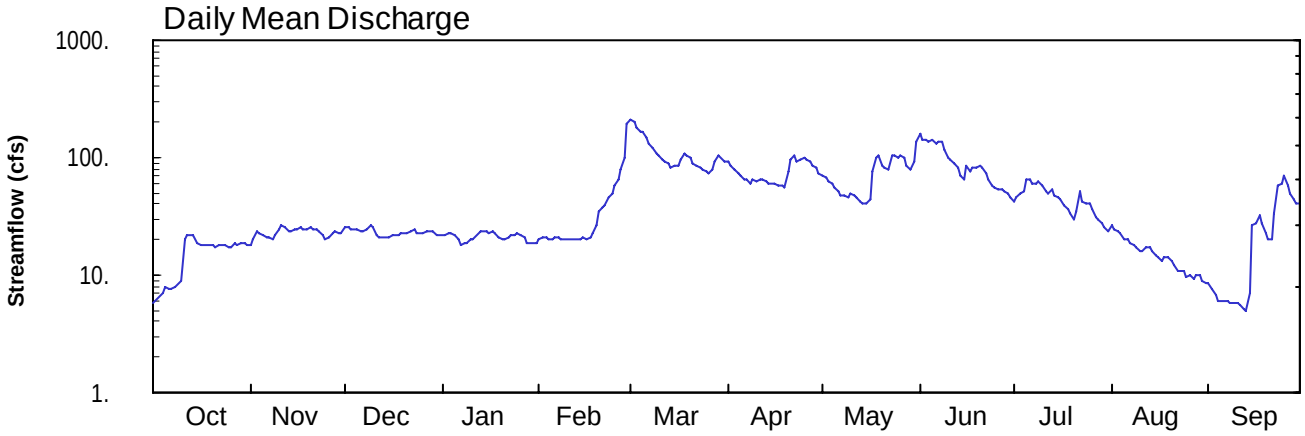
2004 Water Year

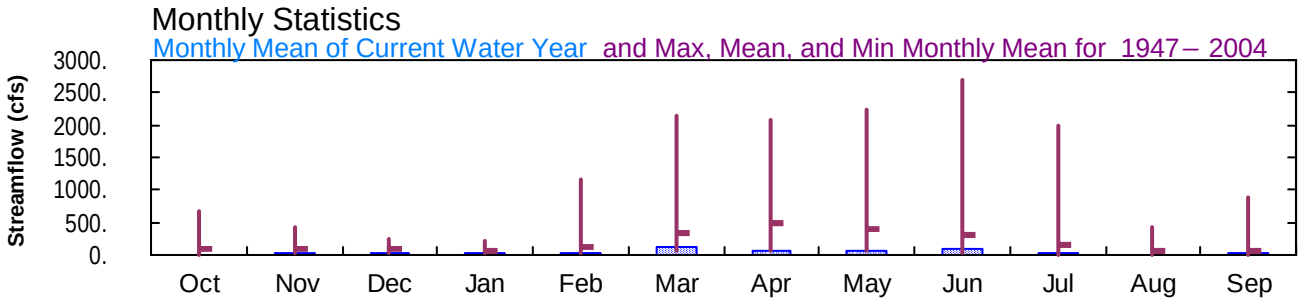
PLATTE RIVER BASIN

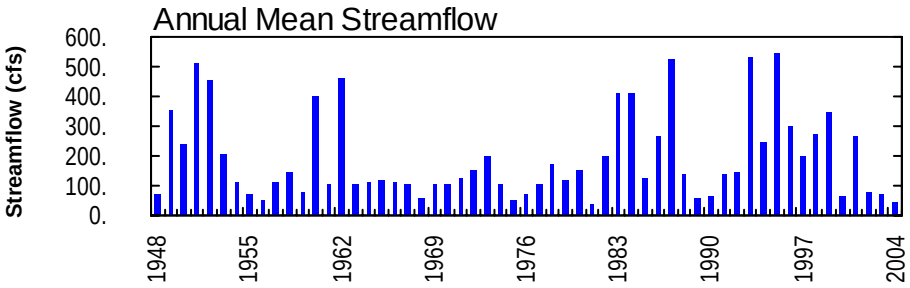
06797500 ELKHORN RIVER AT EWING, NEBR.

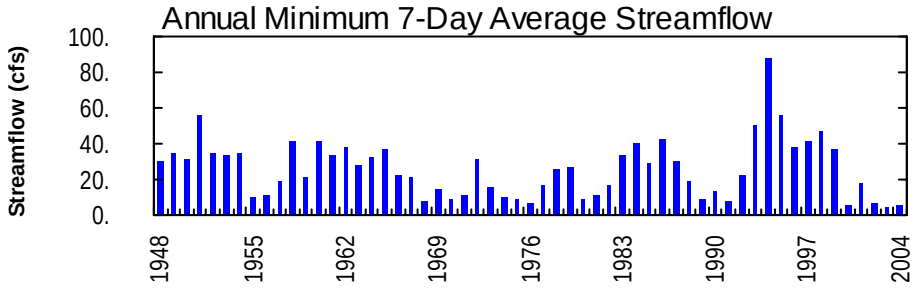
Latitude: 42° 16 ' 06" Longitude: 098° 20 ' 21" Hydrologic Unit Code: 10220001

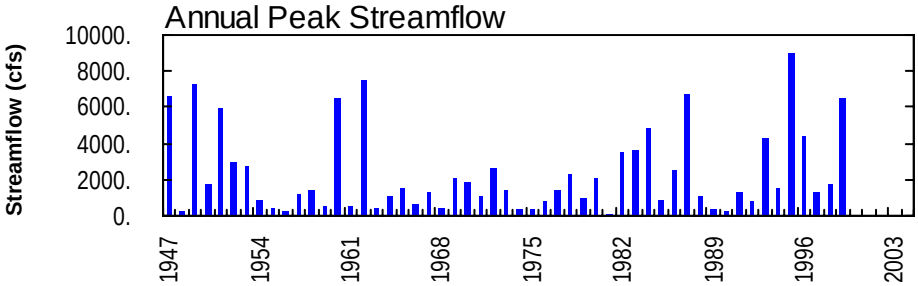
Holt County Datum: 1836.24 feet Drainage Area: 1400. mi^2

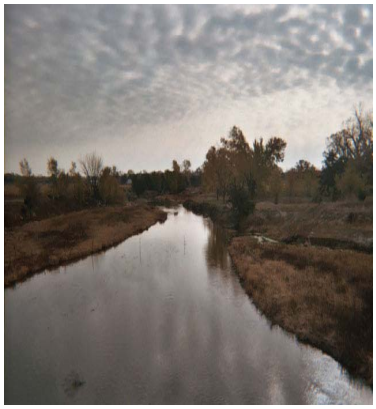












06797500 ELKHORN RIVER AT EWING, NE

LOCATION—Lat 42°16'07", long 98°20'22", in NE 1/4 SW 1/4 sec.35, T.27 N., R.9 W., Holt County, Hydrologic Unit 10220001, on left bank 10 ft downstream from bridge on State Highway L-45B, 0.8 mi north of Ewing, 1.5 mi upstream from South Fork Elkhorn River, and at mile 199.

DRAINAGE AREA—1,400 mi2, approximately, of which about 740 mi2 contributes directly to surface runoff.

PERIOD OF RECORD—August 1947 to current year.

GAGE—Water-stage recorder. Datum of gage is 1,836.24 ft above sea level, levels by Nebraska Department of Roads. From August 1, 1947 to October 22, 1952 at site 300 ft downstream at same datum. From October 23, 1952 to Sept. 30, 1996 at site 800 ft downstream at same datum. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

06797500 ELKHORN RIVER AT EWING, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	18	e26	e22	e20	210	93	70	161	43	27	8.7
2	6.3	20	e26	e22	e21	202	87	67	143	46	25	7.5
3	6.6	24	e25	e23	e21	181	79	62	144	49	24	6.7
4	7.1	23	e25	e23	e20	167	73	60	139	52	23	6.1
5	7.9	22	e25	e22	e20	163	70	56	143	64	20	6.0
6	7.7	21	e24	e20	e21	147	66	52	130	66	20	6.0
7	7.7	21	e24	e18	e21	134	64	48	139	61	19	6.1
8	8.0	20	e25	e19	e20	121	61	47	137	61	18	5.9
9	8.4	22	e27	e19	e20	110	64	46	119	62	17	5.9
10	8.9	25	e26	e20	e20	104	63	49	101	57	16	5.7
11	20	27	e22	e20	e20	96	65	48	95	52	16	5.6
12	22	26	e21	e22	e20	91	64	46	88	49	17	5.2
13	22	24	e21	e24	e20	88	63	43	81	54	17	5.0
14	22	24	e21	e24	e20	81	61	41	71	48	16	7.1
15	19	25	e21	e24	e21	84	61	41	64	45	15	27
16	18	25	e22	e23	e20	86	61	44	84	44	14	28
17	18	26	e22	e24	e21	98	58	76	77	39	13	32
18	18	25	e22	e23	e23	109	57	101	82	36	14	28
19	18	25	e23	e21	e27	106	55	102	81	33	14	23
20	18	26	e23	e20	e35	99	76	86	84	30	13	20
21	17	25	e23	e20	e37	90	95	83	81	35	12	20
22	18	25	e24	e21	e39	84	104	79	72	51	11	34
23	18	24	e25	e22	e45	82	94	102	65	43	11	58
24	18	e22	e23	e22	e50	78	95	102	59	41	11	61
25	17	e20	e23	e23	e58	76	99	100	55	40	9.6	70
26	17	e21	e23	e22	e66	73	98	104	54	36	9.9	59
27	19	e23	e24	e21	e78	79	92	99	54	31	9.2	50
28	18	e24	e24	e19	e100	94	86	86	52	30	9.9	44
29	19	e23	e24	e19	193	103	81	78	49	28	9.9	41
30	19	e23	e22	e19	---	98	73	94	46	26	8.8	40
31	18	---	e22	e19	---	93	---	136	---	24	8.7	---
TOTAL	467.5	699	728	660	1097	3427	2258	2248	2750	1376	469.0	722.5
MEAN	15.1	23.3	23.5	21.3	37.8	111	75.3	72.5	91.7	44.4	15.1	24.1
MAX	22	27	27	24	193	210	104	136	161	66	27	70
MIN	5.9	18	21	18	20	73	55	41	46	24	8.7	5.0
AC-FT	927	1390	1440	1310	2180	6800	4480	4460	5450	2730	930	1430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2004, BY WATER YEAR (WY)

MEAN	86.2	92.0	80.3	70.4	138	344	488	408	305	159	73.5	74.6
MAX	671	443	250	226	1172	2144	2081	2243	2690	1993	444	882
(WY)	1952	1999	1952	1995	1952	1987	1987	1995	1962	1993	1993	1986
MIN	15.1	23.3	23.5	19.4	26.0	61.1	59.7	51.8	45.8	10.7	11.2	6.07
(WY)	2004	2004	2004	1977	1975	1981	1981	1981	1976	2002	2003	2003

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1947 - 2004	
ANNUAL TOTAL	24611.8		16902.0			
ANNUAL MEAN	67.4		46.2		193	
HIGHEST ANNUAL MEAN					543	1995
LOWEST ANNUAL MEAN					42.8	1981
HIGHEST DAILY MEAN	543	May 13	210	Mar 1	8480	May 30 1995
LOWEST DAILY MEAN	4.5	Sep 6	5.0	Sep 13	4.5	Sep 6 2003
ANNUAL SEVEN-DAY MINIMUM	4.7	Sep 2	5.6	Sep 7	4.7	Sep 2 2003
MAXIMUM PEAK FLOW			238	Feb 29	9050	May 29 1995
MAXIMUM PEAK STAGE			3.92	Feb 29	11.09	May 29 1995
ANNUAL RUNOFF (AC-FT)	48820		33530		139900	
10 PERCENT EXCEEDS	152		98		406	
50 PERCENT EXCEEDS	44		26		77	
90 PERCENT EXCEEDS	6.7		13		29	

e Estimated

06799000 ELKHORN RIVER AT NORFOLK, NE

LOCATION—Lat 42°00'14", long 97°25'31", in SW 1/4 SW 1/4 sec.34, T.24 N., R.1 W., Madison County, Hydrologic Unit 10220001, on left bank 200 ft downstream from U.S. Highway 81 bridge, 1 mi south of intersection of U.S. Highways 81 and 275, and 3.6 mi upstream from North Fork Elkhorn River, and at mile 129.

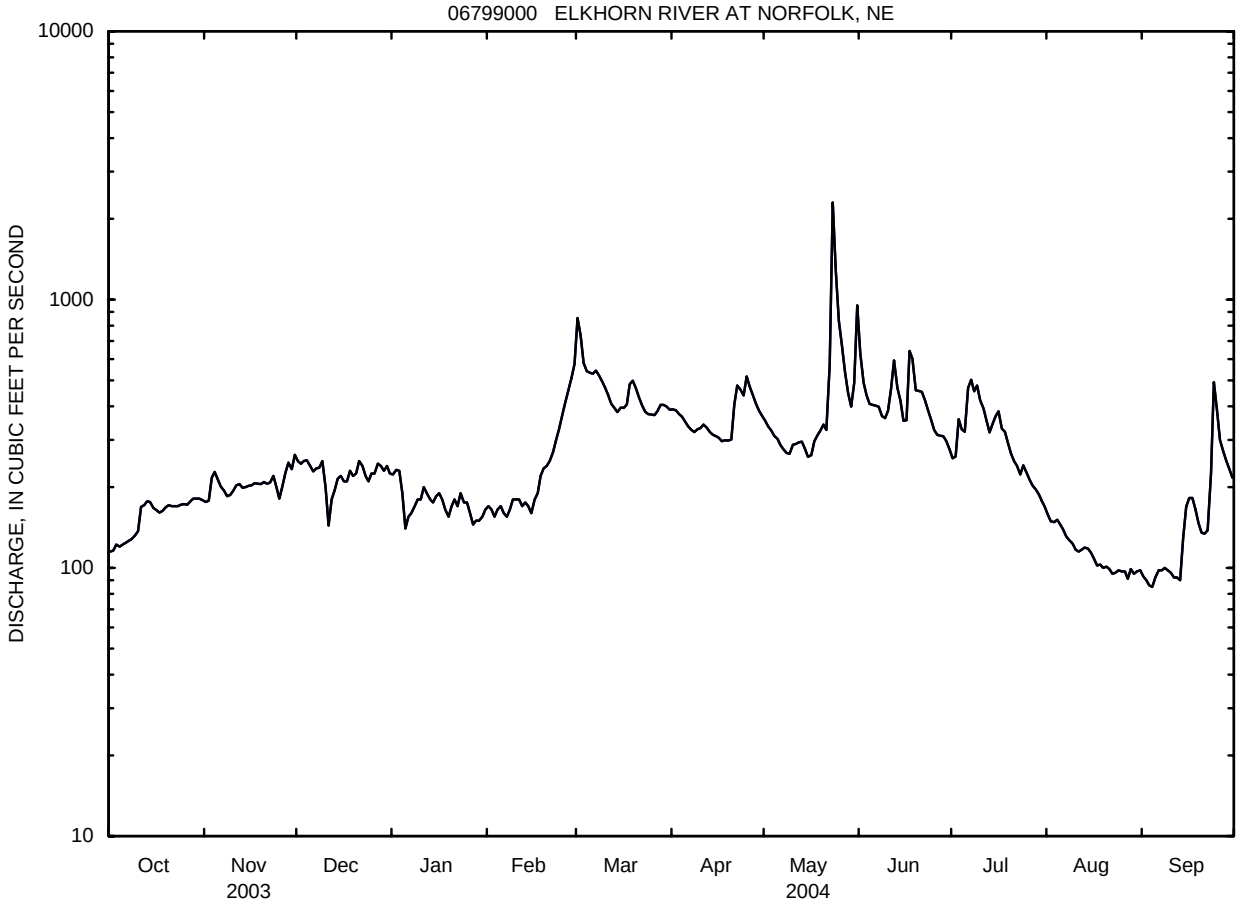
DRAINAGE AREA—2,790 mi2, approximately, of which about 1,790 mi2 contributes directly to surface runoff.

PERIOD OF RECORD—July 1896 to November 1903 (no winter records), October 1945 to current year. Gage height records collected at site 200 ft upstream from May 10, 1941 to Sept. 26, 1945 are contained in reports of U.S. Weather Bureau. Published as “near Norfolk” from October 1957 to September 1977.

REVISED RECORDS—WSP 1390: 1898-1900. WSP 1730: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,500.95 ft above sea level. See WSP 1918 for history of changes prior to Aug. 30, 1958. Aug. 30, 1958, to July 27, 1978, water-stage recorder at site 3.2 mi upstream at datum 19.88 ft higher and July 28, 1978 to Mar. 18, 1987, present site at datum 4.00 ft higher. Mar. 19, 1987, to Mar. 31, 1995, present site at datum 2.00 ft higher. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.



06799000 ELKHORN RIVER AT NORFOLK, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	176	250	223	e170	853	390	354	630	256	158	93
2	116	178	244	232	e165	737	387	337	490	260	149	90
3	122	217	250	e230	e155	580	375	326	440	359	148	86
4	120	228	252	e190	e165	541	366	311	408	328	151	85
5	122	214	240	e140	e170	534	351	302	405	322	145	92
6	124	201	229	e155	e160	530	337	287	402	468	139	98
7	126	194	235	e160	e155	543	327	277	399	502	131	98
8	128	185	236	e170	e165	521	321	268	368	455	127	100
9	132	187	e250	e180	e180	493	328	266	361	479	123	98
10	137	194	e200	e180	e180	468	332	288	385	422	117	96
11	169	203	144	e200	e180	439	342	290	462	393	115	92
12	171	205	e180	e190	e170	408	333	294	593	354	117	92
13	177	199	e195	e180	e175	395	321	295	468	320	119	90
14	176	200	e215	e175	e170	381	313	278	420	344	118	129
15	167	202	e220	e185	e160	396	310	259	353	368	114	169
16	164	203	e210	e190	e180	395	305	263	355	384	108	182
17	161	207	e210	e180	e190	406	297	297	643	330	102	182
18	163	206	e230	e165	e220	483	299	312	601	322	103	165
19	168	205	e220	e155	e235	499	298	325	459	292	100	147
20	171	209	e225	e170	e240	468	301	342	456	267	101	135
21	170	206	e250	e180	e250	430	407	327	453	250	99	134
22	170	208	e240	e170	e270	402	478	574	422	240	95	138
23	170	220	e220	e190	e300	382	463	2300	388	223	96	224
24	172	e200	e210	e175	e330	374	439	1280	356	241	98	492
25	173	181	e225	e175	e370	373	517	834	327	227	97	390
26	172	201	e225	e160	e410	371	474	678	313	214	97	300
27	177	226	e245	e145	e460	385	441	535	311	203	91	274
28	181	247	e240	e150	e510	405	410	448	309	196	99	250
29	181	233	e230	e150	576	405	386	399	297	188	95	233
30	181	264	e240	e155	---	399	369	488	275	178	97	217
31	179	---	e225	e165	---	389	---	952	---	169	98	---
TOTAL	4855	6199	6985	5465	7061	14385	11017	14786	12549	9554	3547	4971
MEAN	157	207	225	176	243	464	367	477	418	308	114	166
MAX	181	264	252	232	576	853	517	2300	643	502	158	492
MIN	115	176	144	140	155	371	297	259	275	169	91	85
AC-FT	9630	12300	13850	10840	14010	28530	21850	29330	24890	18950	7040	9860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY)

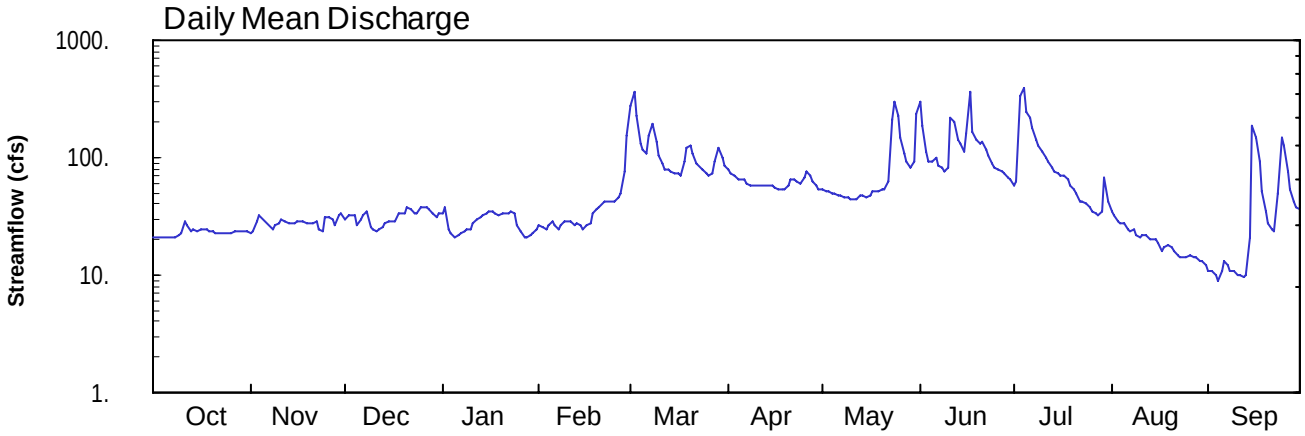
MEAN	315	335	304	291	486	870	1028	882	894	476	306	269
MAX	1418	985	609	624	1862	3819	3715	4615	4673	3663	1398	1444
(WY)	1952	1999	1996	1983	1952	1987	1984	1995	1962	1993	1951	1986
MIN	125	163	151	146	129	298	254	228	201	99.1	61.9	87.3
(WY)	1981	1979	1977	1977	1978	1981	1981	1981	1989	1980	1976	1956

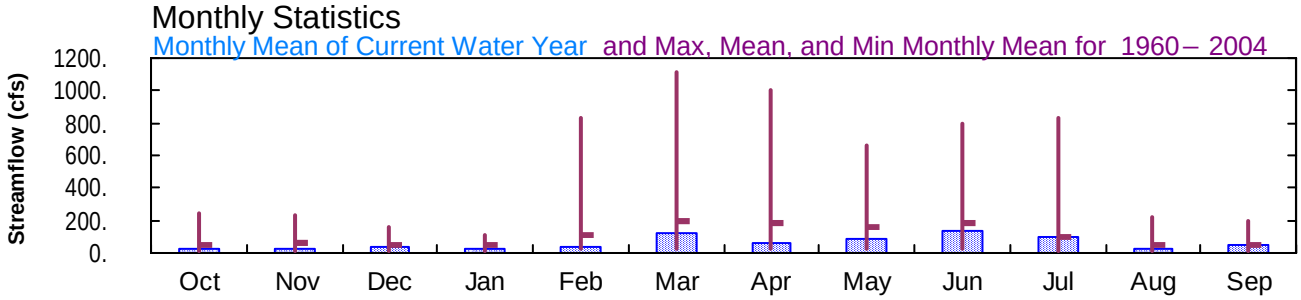
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1946 - 2004	
ANNUAL TOTAL	102713		101374			
ANNUAL MEAN	281		277		537	
HIGHEST ANNUAL MEAN					1355	1995
LOWEST ANNUAL MEAN					224	1981
HIGHEST DAILY MEAN	1180	May 14	2300	May 23	17500	May 31 1995
LOWEST DAILY MEAN	64	Sep 8	85	Sep 4	33	Aug 3 1980
ANNUAL SEVEN-DAY MINIMUM	69	Sep 2	92	Aug 30	40	Aug 24 1976
MAXIMUM PEAK FLOW			2840	May 23	*16900	Jun 14 1967
MAXIMUM PEAK STAGE			6.88	May 23	**15.63	Mar 11 1949
ANNUAL RUNOFF (AC-FT)	203700		201100		389300	
10 PERCENT EXCEEDS	473		464		1050	
50 PERCENT EXCEEDS	230		228		314	
90 PERCENT EXCEEDS	119		119		162	

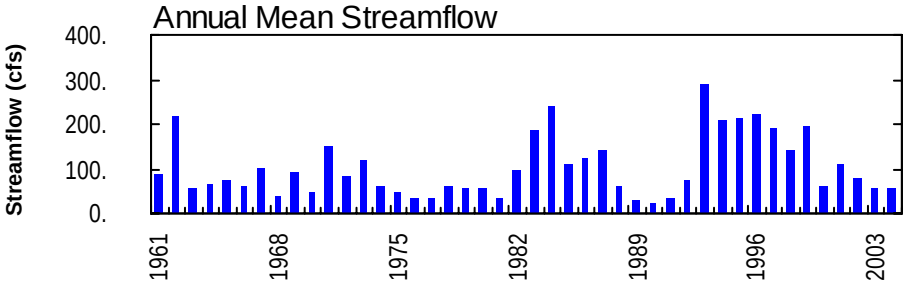
e Estimated
* Stage 8.52 ft
** Backwater from ice

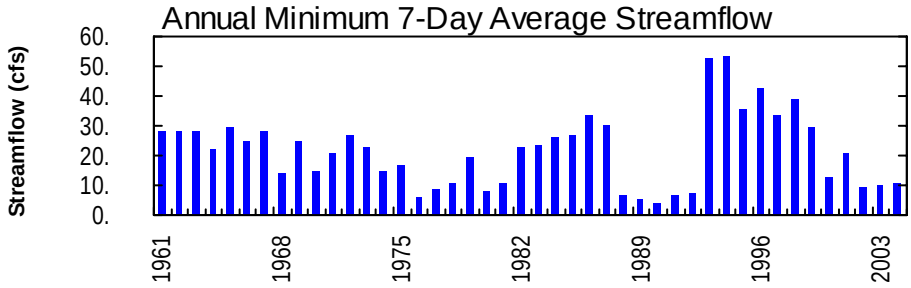
06799100 NORTH FORK ELKHORN RIVER NEAR PIERCE, NEBR.

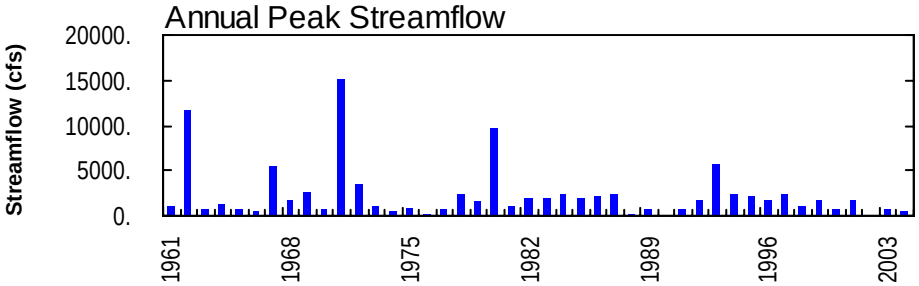
Latitude: 42°08'54" Longitude: 097°28'42" Hydrologic Unit Code: 10220002
Pierce County Datum: 1542.88 feet Drainage Area: 701. mi^2











06799100 NORTH FORK ELKHORN RIVER NEAR PIERCE, NE

LOCATION--Lat 42°08'57", long 97°28'41", in NW 1/4 sec.18, T.25 N., R.1 W., Pierce County, Hydrologic Unit 10220002, on right bank 4 ft downstream and 25 ft from end of bridge, 4.5 mi southeast of Pierce, and at mile 20.8.

DRAINAGE AREA —701 mi^2, of which 671 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—August 1960 to current year.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,542.88 ft above sea level (U.S. Weather Service levels). Aug. 19, 1960 to Oct. 7, 1997, water-stage recorder at site 2 mi upstream at datum 10.19 ft higher. Data collection platform at station.

REMARKS—Record good except for estimated daily discharges, which are poor.

06799100 NORTH FORK ELKHORN RIVER NEAR PIERCE, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	23	30	34	e27	276	79	54	297	59	35	11
2	21	24	32	37	e26	367	74	52	187	63	32	11
3	21	29	32	25	e25	228	70	51	113	338	29	10
4	21	32	32	e23	e27	133	66	50	93	397	28	8.9
5	21	30	27	e21	e29	116	65	49	93	244	28	11
6	21	28	30	e22	e27	110	64	48	100	221	25	13
7	21	27	32	e23	e25	151	61	47	86	182	24	12
8	21	25	35	e24	e27	197	59	46	81	143	25	11
9	22	27	26	e25	e29	139	59	45	77	126	22	11
10	23	28	e25	e25	e29	105	59	44	81	112	21	10
11	29	30	e24	e28	e29	90	59	44	221	101	22	9.9
12	27	29	e25	e30	e27	79	59	44	198	92	22	9.7
13	24	28	e26	e31	e28	79	59	48	142	83	20	9.9
14	25	28	e28	e32	e27	77	58	47	130	77	20	21
15	24	28	e29	e34	e25	74	57	46	113	72	20	190
16	25	29	e29	e35	e27	73	55	48	162	71	19	149
17	25	29	29	e35	e28	70	53	51	363	70	16	91
18	25	29	34	e33	e33	91	53	52	163	65	17	52
19	24	28	33	e32	e36	121	53	52	142	59	18	35
20	24	28	34	e33	e38	128	58	53	132	53	17	28
21	23	28	37	e34	e40	107	64	53	135	50	16	25
22	23	29	36	e33	e42	88	66	62	119	43	15	24
23	23	25	34	35	e42	81	63	212	102	42	14	49
24	23	24	33	e34	e42	78	61	298	89	41	14	149
25	23	31	37	27	43	74	69	231	82	38	14	127
26	23	31	38	e24	46	70	75	145	78	35	15	75
27	24	30	37	e21	50	72	70	109	77	33	14	53
28	24	27	36	e21	76	92	63	92	73	32	14	43
29	24	32	33	e22	155	121	57	81	69	35	13	38
30	24	33	31	e23	---	101	54	91	64	69	13	36
31	24	---	34	e25	---	86	---	237	---	42	12	---
TOTAL	723	849	978	881	1105	3674	1862	2582	3862	3088	614	1323.4
MEAN	23.3	28.3	31.5	28.4	38.1	119	62.1	83.3	129	99.6	19.8	44.1
MAX	29	33	38	37	155	367	79	298	363	397	35	190
MIN	21	23	24	21	25	70	53	44	64	32	12	8.9
AC-FT	1430	1680	1940	1750	2190	7290	3690	5120	7660	6130	1220	2620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2004, BY WATER YEAR (WY)

MEAN	52.2	59.1	53.5	48.7	112	200	187	162	181	99.5	54.0	46.3
MAX	241	233	156	111	834	1120	1004	663	799	834	226	191
(WY)	1996	1999	2002	1973	1971	1962	1984	1995	1967	1993	1996	1992
MIN	13.5	14.7	14.6	15.6	24.2	30.3	28.7	27.7	21.8	11.7	7.41	9.53
(WY)	1992	1992	1992	1992	1978	1990	1990	1981	1989	1989	1990	1990

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1960 - 2004	
ANNUAL TOTAL	21003.8		21541.4			
ANNUAL MEAN	57.5		58.9		104	
HIGHEST ANNUAL MEAN					287	1993
LOWEST ANNUAL MEAN					21.5	1990
HIGHEST DAILY MEAN	628	Jul 7	397	Jul 4	10400	Mar 28 1962
LOWEST DAILY MEAN	9.3	Sep 8	8.9	Sep 4	2.7	Jul 29 1989
ANNUAL SEVEN-DAY MINIMUM	10	Sep 2	10	Sep 7	3.7	Aug 15 1990
MAXIMUM PEAK FLOW			535	Jun 17	15200	Feb 19 1971
MAXIMUM PEAK STAGE			5.66	Jun 17	15.10	Feb 19 1971
ANNUAL RUNOFF (AC-FT)	41660		42730		75410	
10 PERCENT EXCEEDS	108		126		200	
50 PERCENT EXCEEDS	37		35		47	
90 PERCENT EXCEEDS	21		21		22	

e Estimated

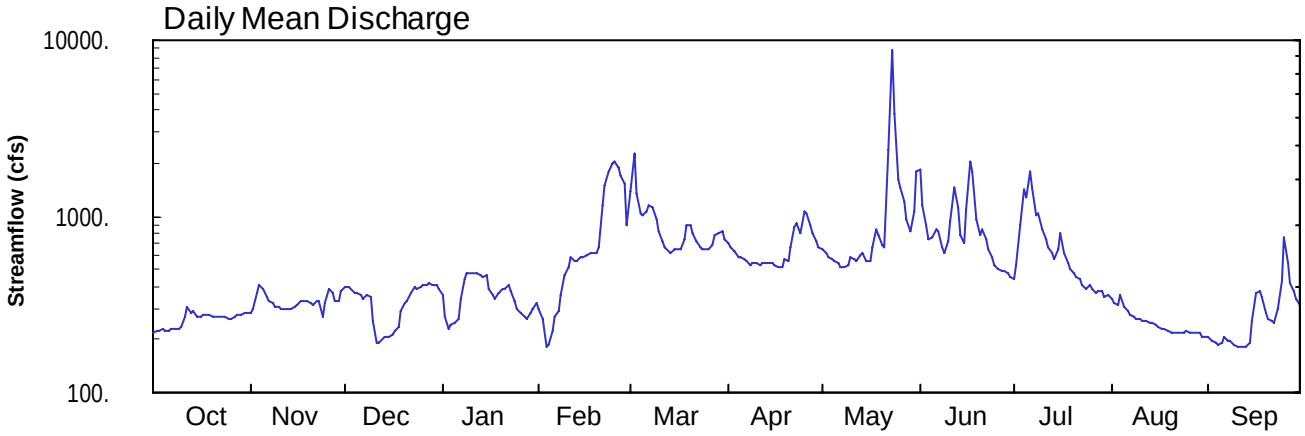
2004 Water Year

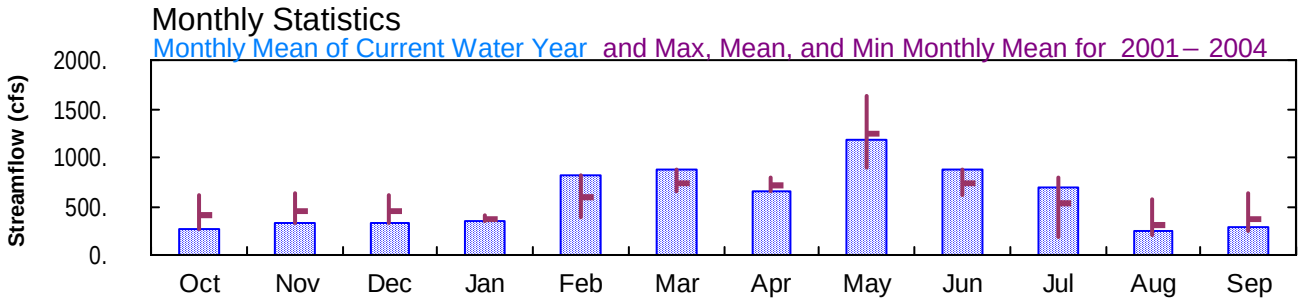
PLATTE RIVER BASIN

06799315 ELKHORN RIVER AT PILGER, NE

Latitude: 41° 59 ' 42" Longitude: 097° 03 ' 29" Hydrologic Unit Code: 10220003

Stanton County Datum: 1416 feet Drainage Area: mi^2





NO PHOTOS AVAILABLE FOR THIS SITE

06799315 ELKHORN RIVER AT PILGER, NE

LOCATION--Lat 41°59'42", long 97°03'29", in NE 1/4 SW 1/4 sec.2, T.23 N., R.3 E., Stanton County, Hydrologic Unit 10220003, on right bank near the downstream wingwall of the bridge on State Highway 15, 0.8 miles south of Pilger.

DRAINAGE AREA—4,360 mi2, approximately, of which about 3,360 mi2 contributes directly to surface runoff.

PERIOD OF RECORD—June 2001 to current year.

GAGE—Water-stage recorder. Datum of gage is 1,388.41 ft above sea level. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

06799315 ELKHORN RIVER AT PILGER, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	285	399	e360	e300	e1400	702	644	1860	443	339	206
2	222	295	394	e270	e260	2280	665	616	1150	531	320	197
3	227	372	382	e230	e180	1340	640	590	897	889	317	190
4	230	410	372	e240	e185	1030	589	577	743	1430	360	187
5	222	384	368	e250	e225	1000	588	564	760	1280	307	194
6	221	349	355	e260	e270	1080	574	542	851	1780	288	205
7	227	333	339	e340	e290	1150	556	511	829	1470	277	199
8	228	320	356	e440	e360	1120	533	519	674	1010	271	195
9	229	309	350	e480	e460	957	538	533	619	1040	264	189
10	233	303	254	e480	e520	831	538	582	730	845	264	183
11	269	302	e190	e480	e580	731	535	578	939	737	254	181
12	303	299	e190	e480	e560	663	544	564	1470	663	253	182
13	282	296	e200	e460	e560	635	540	601	1110	612	251	181
14	288	298	e205	e450	e580	620	547	612	784	567	245	191
15	271	308	e205	e460	e580	643	540	562	713	644	239	256
16	272	318	e210	e390	e600	658	534	562	1090	804	236	365
17	273	328	e225	e360	e620	649	518	667	2050	624	232	380
18	272	332	e235	e340	e620	735	513	845	1780	538	229	345
19	273	328	e290	e370	e620	887	575	775	962	503	223	287
20	271	325	e320	e390	e660	889	559	687	773	480	220	260
21	269	318	e330	e390	e1160	800	675	674	854	449	221	256
22	269	327	e370	e410	e1500	719	872	2380	738	438	219	251
23	270	335	e400	e380	e1800	669	918	8820	648	406	219	295
24	267	267	e390	e330	e2000	650	792	3810	584	391	220	429
25	265	323	e400	e300	e2050	652	1060	1600	533	408	223	768
26	261	386	e410	e280	e1900	649	1050	1480	503	390	220	537
27	267	370	e410	e270	e1700	685	892	1200	495	372	217	420
28	275	328	e420	e260	e1550	772	792	974	491	377	216	373
29	278	328	e410	e280	e900	796	720	832	473	381	216	336
30	286	381	e410	e300	---	818	669	1070	450	349	208	315
31	285	---	e390	e320	---	747	---	1810	---	355	207	---
TOTAL	8023	9857	10179	11050	23590	27255	19768	36781	26553	21206	7775	8553
MEAN	259	329	328	356	813	879	659	1186	885	684	251	285
MAX	303	410	420	480	2050	2280	1060	8820	2050	1780	360	768
MIN	218	267	190	230	180	620	513	511	450	349	207	181
AC-FT	15910	19550	20190	21920	46790	54060	39210	72960	52670	42060	15420	16960

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	404	449	440	369	602	737	722	1240	727	540	313	360
MAX	609	633	606	406	813	879	786	1628	885	798	566	638
(WY)	2002	2002	2002	2002	2004	2004	2002	2003	2004	2001	2001	2001
MIN	259	329	328	344	390	661	659	906	609	185	204	241
(WY)	2004	2004	2004	2003	2002	2002	2004	2002	2003	2002	2003	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	196437		210590			
ANNUAL MEAN	538		575		553	
HIGHEST ANNUAL MEAN					575	2004
LOWEST ANNUAL MEAN					529	2002
HIGHEST DAILY MEAN	3310	May 5	8820	May 23	8820	May 23 2004
LOWEST DAILY MEAN	110	Jan 18	180	Feb 3	102	Aug 2 2002
ANNUAL SEVEN-DAY MINIMUM	123	Jan 15	186	Sep 8	114	Jul 29 2002
MAXIMUM PEAK FLOW			11700	May 23	11700	May 23 2004
MAXIMUM PEAK STAGE			11.44	May 23	11.44	May 23 2004
ANNUAL RUNOFF (AC-FT)	389600		417700		400700	
10 PERCENT EXCEEDS	865		1030		939	
50 PERCENT EXCEEDS	410		410		450	
90 PERCENT EXCEEDS	204		222		207	

e Estimated

2004 Water Year

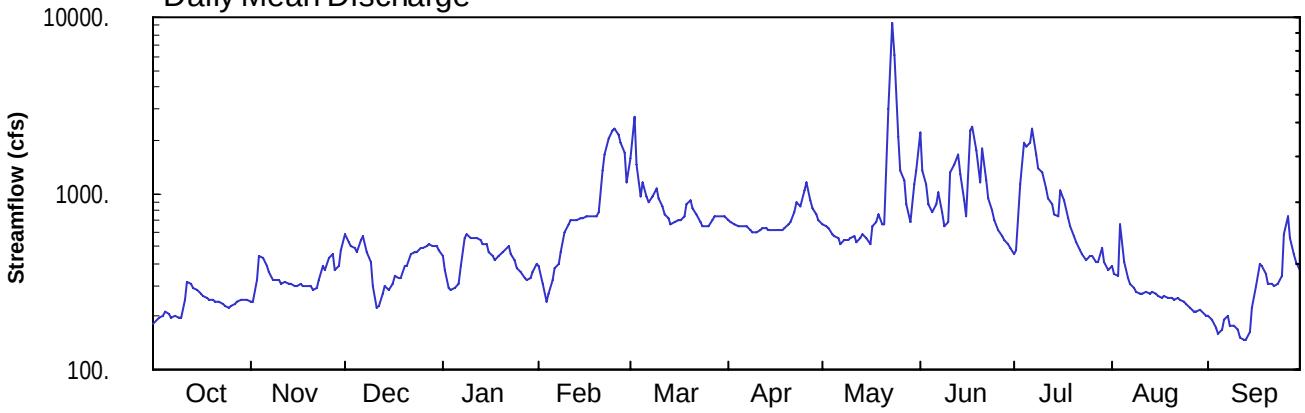
PLATTE RIVER BASIN

06799350 ELKHORN RIVER AT WEST POINT, NEBR.

Latitude: 41° 50 ' 22" Longitude: 096° 43 ' 38" Hydrologic Unit Code: 10220003

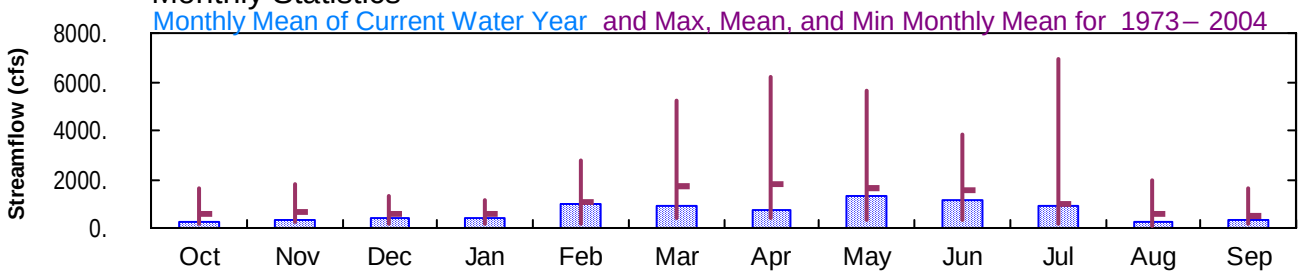
Cuming County Datum: 1291.26 feet Drainage Area: 4676. mi^2

Daily Mean Discharge

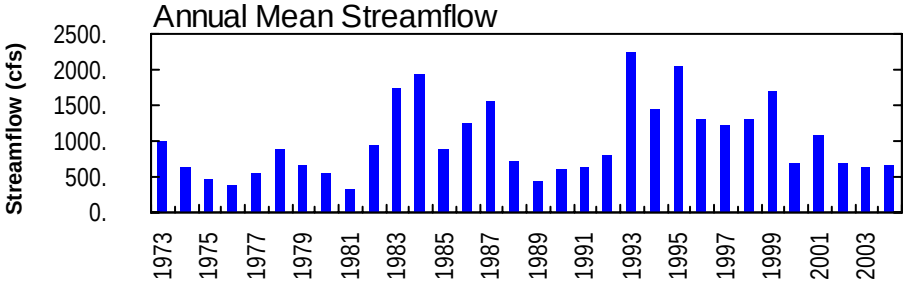


Monthly Statistics

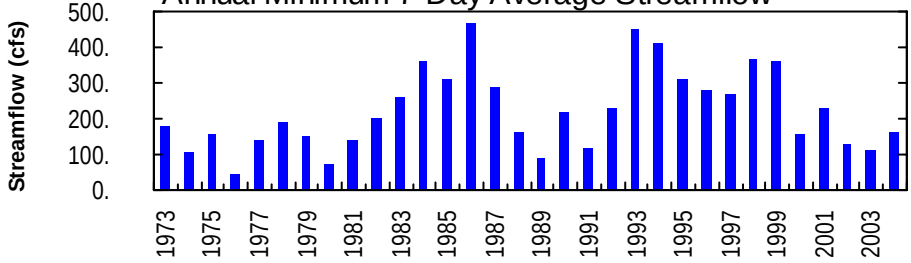
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1973 – 2004



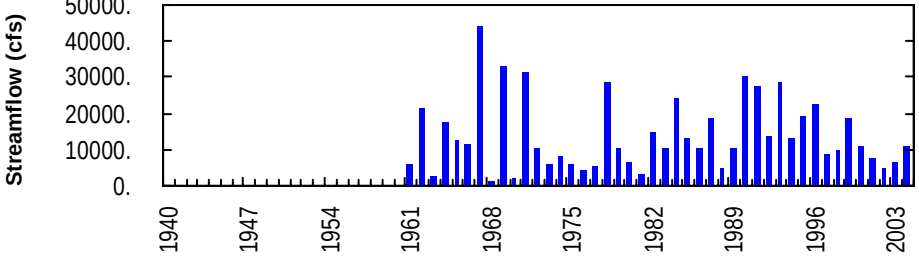
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



NO PHOTOS AVAILABLE FOR THIS SITE

06799350 ELKHORN RIVER AT WEST POINT, NE

LOCATION—Lat 41°50'22", long 96°43'38", in SW 1/4 NW 1/4 sec.34, T.22 N., R.6 E., Cuming County, Hydrologic Unit 10220003, on right bank near right downstream wingwall of bridge on State Highway 32, 1 mi west of West Point, and at mile 79.8.

DRAINAGE AREA—4,680 mi^2, approximately, of which about 4,100 mi^2 contributes directly to surface runoff, revised.

PERIOD OF RECORD—October 1972 to current year. March 1960 to September 1972 (no winter records 1960-68)in files of Corps of Engineers. Gage-height records collected since 1940 are in reports of U.S. Weather Service.

GAGE—Water-stage recorder. Datum of gage is 1,291.26 ft above sea level. Prior to May 18, 1976, at site on left bank 50 ft upstream from bridge at same datum. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor. Some small diversions above station for irrigation.

06799350 ELKHORN RIVER AT WEST POINT, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	242	583	e440	e390	1570	708	669	2200	451	388	201
2	191	241	535	e370	e310	2740	683	652	1340	481	351	191
3	199	319	503	e290	e240	1450	664	629	1130	1110	342	173
4	200	436	489	e280	e270	958	655	586	871	1930	665	158
5	212	425	469	e290	e320	1140	651	570	790	1830	405	168
6	205	389	536	e310	e380	955	650	552	875	1940	332	191
7	199	355	568	e390	e400	894	650	521	1020	2300	307	202
8	200	322	470	e560	e470	972	621	538	781	1660	288	177
9	199	324	e410	e580	e600	1070	604	543	656	1370	279	179
10	197	319	e300	e560	e660	932	603	553	690	1330	269	170
11	251	309	e225	e560	e700	838	613	572	1330	1070	272	152
12	315	311	e230	e560	e700	762	635	535	1470	944	276	146
13	308	303	e270	e540	e700	717	635	563	1640	858	271	147
14	294	305	e300	e520	e720	662	623	586	1280	752	278	163
15	283	297	e280	e520	e720	687	612	552	904	734	272	225
16	268	300	e310	e470	e740	695	619	516	735	1030	262	302
17	261	305	e340	e440	e750	698	610	644	2250	913	258	400
18	258	296	e330	e420	e740	735	622	683	2400	730	259	388
19	250	297	e330	e440	e740	861	632	753	1730	644	258	353
20	249	297	e390	e460	e780	916	669	675	1140	577	255	309
21	244	286	e390	e480	e1350	826	680	666	1780	535	250	303
22	244	291	e450	e500	e1650	755	787	3010	1180	475	252	298
23	238	321	e470	e450	e2050	692	887	9170	939	449	249	304
24	232	389	e470	e420	e2250	654	842	6080	797	423	242	340
25	226	372	e490	e380	e2300	648	1050	2090	698	446	235	590
26	228	426	e490	e360	e2150	645	1140	1350	616	445	225	750
27	233	451	e500	e330	e1950	699	902	1170	579	405	211	550
28	242	371	e520	e320	e1700	739	826	861	542	406	210	450
29	249	388	e500	e330	1140	735	754	685	514	493	220	405
30	248	482	e500	e360	---	740	696	1110	483	406	214	366
31	248	---	e480	e400	---	746	---	1360	---	371	202	---
TOTAL	7352	10169	13128	13330	27870	28131	21323	39444	33360	27508	8797	8751
MEAN	237	339	423	430	961	907	711	1272	1112	887	284	292
MAX	315	482	583	580	2300	2740	1140	9170	2400	2300	665	750
MIN	181	241	225	280	240	645	603	516	483	371	202	146
AC-FT	14580	20170	26040	26440	55280	55800	42290	78240	66170	54560	17450	17360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2004, BY WATER YEAR (WY)

MEAN	542	631	588	537	1022	1739	1786	1628	1529	1000	593	476
MAX	1606	1802	1314	1106	2744	5256	6171	5618	3844	6945	1994	1646
(WY)	1987	1999	1994	1995	1983	1987	1984	1995	1995	1993	1993	1986
MIN	174	241	203	168	201	411	378	325	339	154	90.0	137
(WY)	1977	1979	1977	1977	1979	1981	1981	1981	1976	1976	1976	1976

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1973 - 2004	
ANNUAL TOTAL	216771		239163			
ANNUAL MEAN	594		653		1005	
HIGHEST ANNUAL MEAN					2253	1993
LOWEST ANNUAL MEAN					332	1981
HIGHEST DAILY MEAN	4170	May 5	9170	May 23	26000	Mar 9 1993
LOWEST DAILY MEAN	94	Sep 8	146	Sep 12	41	Aug 31 1976
ANNUAL SEVEN-DAY MINIMUM	112	Sep 2	162	Sep 8	45	Aug 27 1976
MAXIMUM PEAK FLOW			11000	May 23	e*33000	Jun 25 1969
MAXIMUM PEAK STAGE			11.26	May 23	**18.60	Mar 9 1993
ANNUAL RUNOFF (AC-FT)	430000		474400		727900	
10 PERCENT EXCEEDS	1060		1150		2010	
50 PERCENT EXCEEDS	489		496		600	
90 PERCENT EXCEEDS	198		233		235	

e Estimated
* Stage 13.21 ft
** From floodmark, ice jam

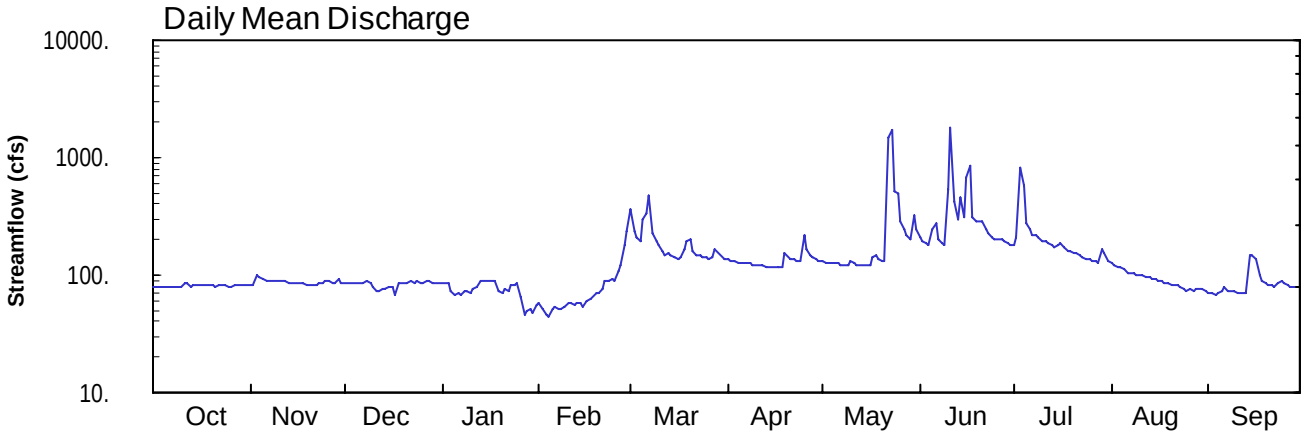
2004 Water Year

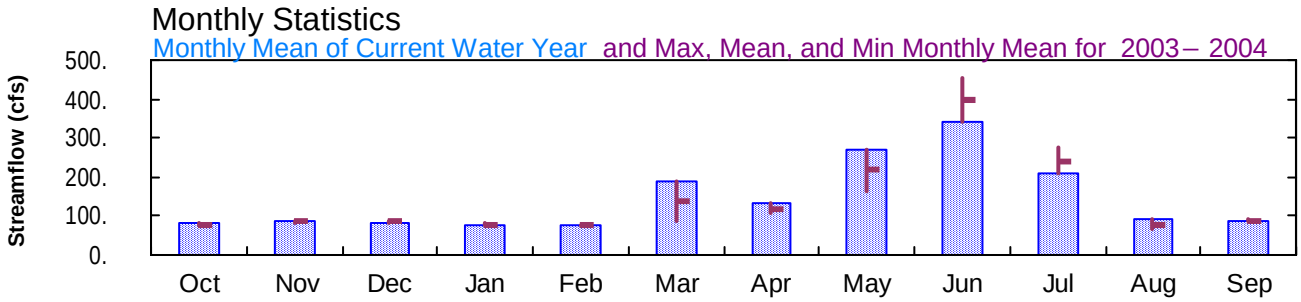
PLATTE RIVER BASIN

06799445 LOGAN CREEK AT WAKEFIELD, NEBR.

Latitude: 42° 16 ' 37" Longitude: 096° 51 ' 42" Hydrologic Unit Code: 10220004

Dixon County Datum: feet Drainage Area: mi^2





NO PHOTOS AVAILABLE FOR THIS SITE

06799445 LOGAN CREEK AT WAKEFIELD, NE

LOCATION—Lat 42°16'38", long 96°51'43", in NW1/4 NW1/4 sec.33, T.27 N., R.8 E., Dixon County, Hydrologic Unit 10220004, on the left downstream shoulder of Nebraska Highway 16 bridge at the north edge of Wakefield.

DRAINAGE AREA—543 mi2.

PERIOD OF RECORD—October 2002 to current year.

GAGE—Water-stage recorder. Elevation of gage is 1,360 ft above sea level from topographic map. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, which are poor.

06799445 LOGAN CREEK AT WAKEFIELD, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	83	86	86	e59	e360	136	130	210	179	125	72
2	78	84	86	85	e52	e240	133	129	192	213	122	70
3	79	99	87	87	e45	e210	130	127	185	839	118	69
4	80	96	87	e74	e44	192	127	127	181	572	117	70
5	79	91	85	e69	e52	302	127	126	248	277	111	73
6	79	89	87	e71	e53	332	127	124	275	241	106	78
7	78	88	87	e68	e52	479	125	121	201	219	104	74
8	78	88	87	e73	e52	224	124	122	185	214	103	72
9	78	89	85	e74	e53	196	122	122	180	206	101	72
10	78	89	e79	e71	e59	179	122	130	542	197	102	71
11	87	89	e73	e75	e58	160	121	126	1800	192	100	71
12	84	88	e73	e79	e56	148	120	123	417	185	97	70
13	81	85	e75	88	e58	152	118	123	294	181	97	70
14	81	86	e76	88	e58	146	117	124	463	175	94	146
15	82	86	e80	89	e53	142	116	121	305	182	93	150
16	83	84	e78	88	e60	138	116	124	668	189	89	135
17	83	84	e69	87	e62	142	116	145	871	170	87	100
18	83	84	85	90	e66	163	117	147	309	163	85	88
19	82	83	85	e73	e70	196	153	139	283	160	87	85
20	81	83	85	e71	e70	200	140	134	284	155	83	81
21	81	84	87	e77	e77	158	138	132	288	154	82	81
22	81	84	89	e73	e88	149	137	1470	242	150	82	80
23	82	85	87	e81	e88	147	133	1700	224	142	80	87
24	81	e84	88	e83	e94	145	133	516	213	137	77	89
25	80	e90	86	e84	e90	144	215	493	205	136	74	85
26	80	88	86	e64	e106	139	168	288	199	133	75	81
27	82	85	88	e45	e123	144	148	248	199	130	74	80
28	83	86	89	e49	e180	166	144	220	193	129	76	80
29	83	94	86	e51	e240	155	137	206	187	164	77	80
30	82	86	85	e48	---	142	131	323	183	156	76	79
31	82	---	86	e56	---	138	---	247	---	132	72	---
TOTAL	2509	2614	2592	2297	2218	5928	3991	8407	10226	6472	2866	2539
MEAN	80.9	87.1	83.6	74.1	76.5	191	133	271	341	209	92.5	84.6
MAX	87	99	89	90	240	479	215	1700	1800	839	125	150
MIN	78	83	69	45	44	138	116	121	180	129	72	69
AC-FT	4980	5180	5140	4560	4400	11760	7920	16680	20280	12840	5680	5040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	79.0	84.3	84.2	76.8	77.2	139	119	217	398	242	78.8	88.2
MAX	80.9	87.1	84.8	79.4	77.9	191	133	271	455	275	92.5	91.7
(WY)	2004	2004	2003	2003	2003	2004	2004	2004	2003	2003	2004	2003
MIN	77.0	81.4	83.6	74.1	76.5	86.3	106	163	341	209	65.2	84.6
(WY)	2003	2003	2004	2004	2004	2003	2003	2003	2004	2004	2003	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2003 - 2004	
ANNUAL TOTAL	50201		52659			
ANNUAL MEAN	138		144		140	
HIGHEST ANNUAL MEAN					144	2004
LOWEST ANNUAL MEAN					137	2003
HIGHEST DAILY MEAN	4630	Jun 10	1800	Jun 11	4630	Jun 10 2003
LOWEST DAILY MEAN	48	Sep 4	44	Feb 4	44	Feb 4 2004
ANNUAL SEVEN-DAY MINIMUM	50	Aug 25	50	Feb 2	50	Feb 2 2004
MAXIMUM PEAK FLOW			3800	Jun 11	9550	Jun 10 2003
MAXIMUM PEAK STAGE			16.56	Jun 11	23.55	Jun 10 2003
ANNUAL RUNOFF (AC-FT)	99570		104400		101700	
10 PERCENT EXCEEDS	173		219		201	
50 PERCENT EXCEEDS	87		90		88	
90 PERCENT EXCEEDS	61		71		69	

e Estimated

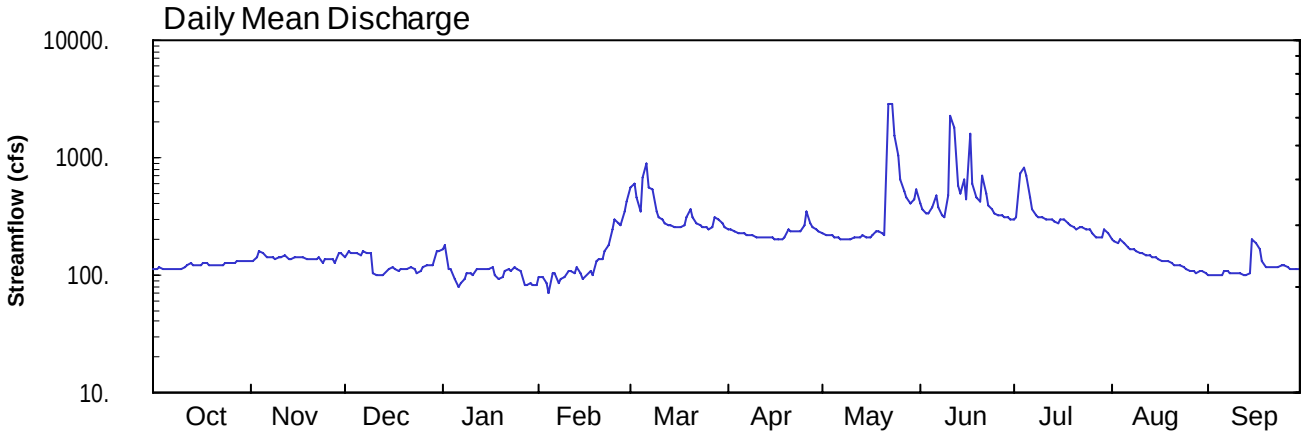
2004 Water Year

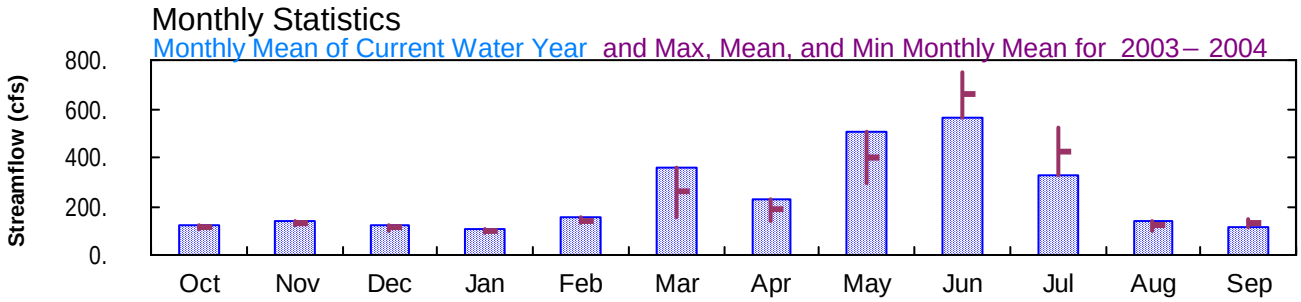
PLATTE RIVER BASIN

06799460 LOGAN CREEK NEAR BANCROFT, NE.

Latitude: 42°00'09" Longitude: 096°29'25" Hydrologic Unit Code: 10220004

Burt County Datum: 1280 feet Drainage Area: mi^2





06799460 LOGAN CREEK NEAR BANCROFT, NE

LOCATION—Lat 42°00'10", long 96°29'25", in NW1/4 NE1/4 sec.2, T.23 N., R.8 E., Burt County, Hydrologic Unit 10220004, on the left downstream shoulder of Nebraska Highway 51 bridge over Logan Creek and 3.5 miles east southeast of Bancroft, Nebraska.

DRAINAGE AREA—854 mi^2.

PERIOD OF RECORD—October 2002 to current year.

GAGE—Water-stage recorder. Elevation of gage is 1,270 ft above sea level from topographic map. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, which are poor.

06799460 LOGAN CREEK NEAR BANCROFT, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	130	e141	163	e94	e550	250	224	412	298	204	102
2	114	132	159	177	e94	e610	243	220	362	306	194	101
3	115	144	156	e113	e87	e450	236	218	340	735	189	100
4	114	160	155	e111	e70	354	231	214	339	812	200	98
5	114	153	152	e94	e106	667	229	211	373	703	184	102
6	114	143	150	e78	e103	874	223	208	481	459	174	107
7	113	140	159	e85	e86	562	220	203	375	359	169	108
8	114	140	152	e93	e91	530	217	199	324	323	164	105
9	114	e138	152	e105	e96	349	214	199	316	314	159	104
10	114	143	e103	e105	e109	315	213	204	482	308	154	104
11	117	143	e100	e101	e107	295	213	213	2310	302	152	103
12	124	146	e101	e113	e105	272	213	208	1780	298	150	102
13	125	139	e99	e110	e115	266	212	210	574	295	147	102
14	124	139	e105	e112	e105	263	209	214	491	286	144	105
15	122	140	e112	e112	e91	260	206	211	659	277	141	203
16	123	141	e119	e114	e102	253	204	210	436	301	137	189
17	125	141	e111	e117	e107	253	199	219	1570	303	133	166
18	124	140	e109	e101	e102	261	202	235	612	273	132	131
19	123	139	e113	e94	e129	307	209	233	461	262	130	119
20	124	139	e113	e95	e138	356	244	226	427	255	126	116
21	123	137	e114	e106	e138	312	238	219	705	250	122	117
22	123	139	e118	e114	e160	274	235	2830	495	257	119	118
23	124	143	e115	e109	e180	263	238	2830	389	253	119	117
24	125	e126	e106	e117	e250	257	235	1560	357	248	116	121
25	125	e135	e107	e114	e300	251	268	1020	338	245	113	121
26	125	e137	e117	e109	e280	244	346	663	325	229	108	118
27	128	e136	e121	e82	e270	256	273	523	319	214	106	114
28	132	e127	e122	e81	e350	316	251	451	314	211	105	113
29	130	e153	e119	e86	e420	301	241	406	307	213	106	112
30	130	e152	158	e82	---	273	232	446	302	248	107	112
31	130	---	158	e82	---	257	---	543	---	228	105	---
TOTAL	3766	4215	3916	3275	4385	11051	6944	15770	16975	10065	4409	3530
MEAN	121	140	126	106	151	356	231	509	566	325	142	118
MAX	132	160	159	177	420	874	346	2830	2310	812	204	203
MIN	113	126	99	78	70	244	199	199	302	211	105	98
AC-FT	7470	8360	7770	6500	8700	21920	13770	31280	33670	19960	8750	7000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	115	130	113	98.1	139	257	187	401	659	423	120	131
MAX	121	140	126	106	151	356	231	509	753	520	142	143
(WY)	2004	2004	2004	2004	2004	2004	2004	2004	2003	2003	2004	2003
MIN	108	119	100	90.6	127	158	142	293	566	325	98.0	118
(WY)	2003	2003	2003	2003	2003	2003	2003	2003	2004	2004	2003	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2003 - 2004	
ANNUAL TOTAL	82559		88301			
ANNUAL MEAN	226		241		231	
HIGHEST ANNUAL MEAN					241	2004
LOWEST ANNUAL MEAN					221	2003
HIGHEST DAILY MEAN	5560	Jun 10	2830	May 22	5560	Jun 10 2003
LOWEST DAILY MEAN	56	Aug 29	70	Feb 4	56	Aug 29 2003
ANNUAL SEVEN-DAY MINIMUM	60	Sep 2	85	Jan 29	60	Sep 2 2003
MAXIMUM PEAK FLOW			4070	May 22	9670	Jun 10 2003
MAXIMUM PEAK STAGE			15.20	May 22	19.99	Jun 10 2003
ANNUAL RUNOFF (AC-FT)	163800		175100		167500	
10 PERCENT EXCEEDS	337		408		357	
50 PERCENT EXCEEDS	134		154		135	
90 PERCENT EXCEEDS	89		104		95	

e Estimated

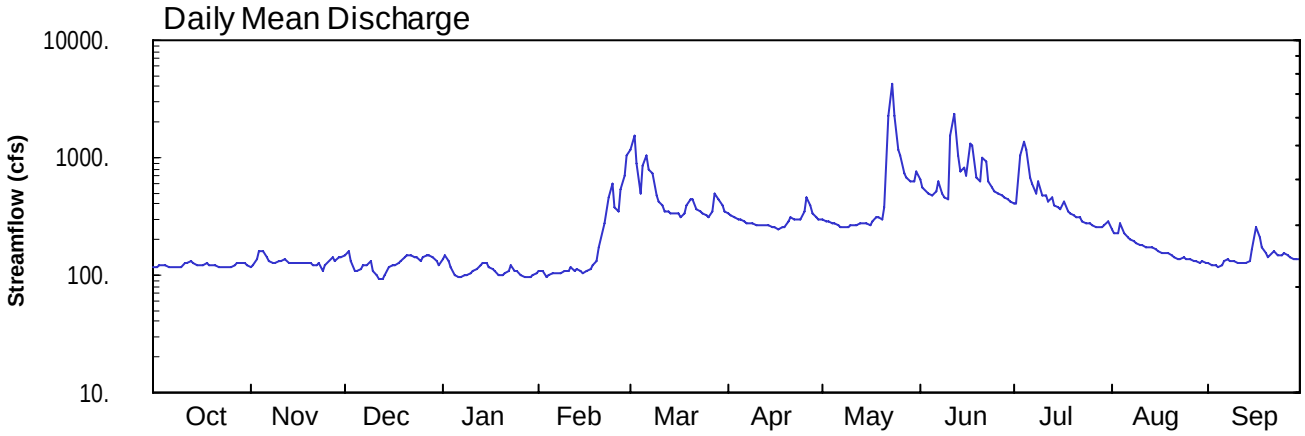
2004 Water Year

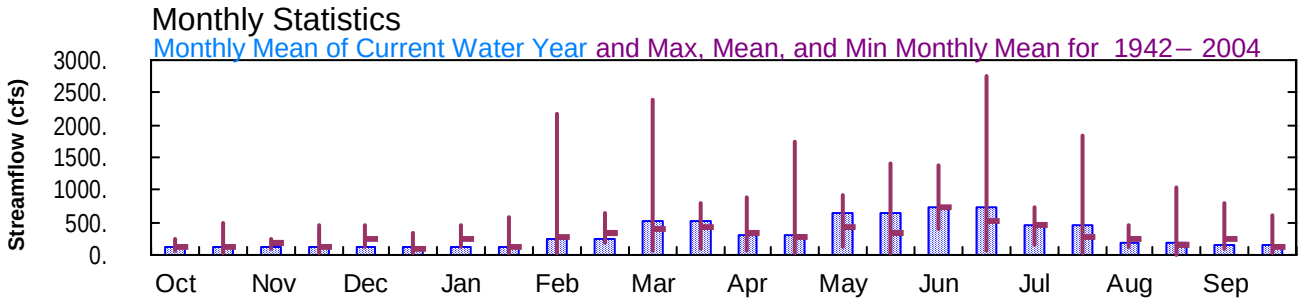
PLATTE RIVER BASIN

06799500 LOGAN CREEK NEAR UEHLING, NEBR.

Latitude: 41° 42 ' 46" Longitude: 096° 31 ' 18" Hydrologic Unit Code: 10220004

Dodge County Datum: 1208.73 feet Drainage Area: 1015. mi²





06799500 LOGAN CREEK NEAR UEHLING, NE

LOCATION—Lat 41°42'46", long 96°31'18", in SE 1/4 SE 1/4 sec.9, T.20 N., R.8 E., Dodge County, Hydrologic Unit 10220004, near left bank on upstream side of bridge on county road, 2 mi southwest of Uehling and 8.8 mi upstream from mouth.

DRAINAGE AREA—1,015 mi^2.

PERIOD OF RECORD—March 1941 to current year.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,208.73 ft above sea level. See WSP 1918 for history of changes prior to July 15, 1963. July 16, 1963 to Mar. 27. 1989, near right bank on downstream side of bridge at present site and datum. Mar. 28, 1989 to Mar. 22, 1990, 250 ft upstream on left bank at same datum. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

COOPERATION—Records provided by Nebraska Department of Natural Resources and reviewed by the U.S. Geological Survey.

06799500 LOGAN CREEK NEAR UEHLING, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	119	e150	e135	e108	1160	333	295	647	410	243	126
2	119	121	e160	e150	e110	1550	319	288	559	414	228	123
3	120	138	e130	e130	e96	877	307	287	514	1050	224	120
4	121	159	e110	e115	e100	489	297	280	492	1390	271	119
5	120	159	e110	e100	e106	861	293	273	482	1170	224	120
6	119	142	e112	e96	e102	1060	287	267	512	680	210	129
7	118	132	e120	e98	e102	785	280	258	619	598	202	135
8	117	127	e120	e100	e104	735	275	255	487	494	197	131
9	116	127	e130	e100	e108	470	271	254	450	623	190	129
10	117	133	e110	e106	e110	419	268	262	443	477	183	128
11	124	134	e100	e108	e116	387	266	269	1520	474	178	127
12	128	135	e94	e112	e110	350	267	265	2380	426	175	125
13	134	127	e94	e120	e114	344	266	271	1060	450	176	126
14	127	125	e100	e125	e110	340	261	276	770	399	170	130
15	123	126	e115	e125	e104	338	257	272	831	377	165	165
16	122	126	e120	e118	e110	329	252	266	700	368	160	251
17	123	127	e120	e112	e114	316	247	289	1310	432	156	208
18	125	128	e125	e110	e120	340	254	315	1280	354	154	176
19	123	124	e130	e100	e130	386	256	306	684	334	151	152
20	122	124	e140	e100	e170	447	292	297	621	322	146	144
21	120	121	e150	e106	e240	433	306	381	1000	311	144	153
22	118	120	e150	e110	e280	362	297	2280	932	306	139	162
23	119	127	e140	e120	e450	348	294	4210	617	290	137	149
24	119	e110	e140	e110	e600	336	303	2250	548	279	142	150
25	119	e120	e130	e108	e380	320	344	1160	512	277	136	152
26	119	e130	e140	e100	e350	309	460	1020	489	269	135	147
27	122	e140	e150	e98	e540	350	385	746	477	260	132	142
28	127	e130	e150	e98	e700	496	334	668	465	257	129	137
29	124	e140	e140	e98	1020	448	312	616	446	258	128	136
30	125	e140	e130	e100	---	389	303	628	427	261	132	136
31	122	---	e122	e106	---	353	---	755	---	284	128	---
TOTAL	3770	3911	3932	3414	6804	16127	8886	20259	22274	14294	5285	4328
MEAN	122	130	127	110	235	520	296	654	742	461	170	144
MAX	134	159	160	150	1020	1550	460	4210	2380	1390	271	251
MIN	116	110	94	96	96	309	247	254	427	257	128	119
AC-FT	7480	7760	7800	6770	13500	31990	17630	40180	44180	28350	10480	8580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, BY WATER YEAR (WY)

MEAN	123	118	103	112	263	409	289	328	508	269	167	130
MAX	499	453	337	583	2177	2388	1742	1417	2766	1843	1056	613
(WY)	1993	1999	1994	1973	1971	1962	1984	1984	1984	1993	1951	1993
MIN	32.8	38.2	31.9	34.1	38.1	57.4	42.8	39.9	56.6	17.3	15.0	31.6
(WY)	1944	1949	1944	1957	1979	1943	1957	1943	1976	1976	1976	1943

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1942 - 2004	
ANNUAL TOTAL	92012		113284			
ANNUAL MEAN	252		310		234	
HIGHEST ANNUAL MEAN					710	1984
LOWEST ANNUAL MEAN					66.4	1943
HIGHEST DAILY MEAN	4520	Jun 10	4210	May 23	20100	Feb 20 1971
LOWEST DAILY MEAN	92	Aug 30	94	Dec 12	6.1	Jul 26 1976
ANNUAL SEVEN-DAY MINIMUM	95	Sep 2	101	Jan 5	8.8	Jul 12 1976
MAXIMUM PEAK FLOW			7280	May 23	*25200	Feb 20 1971
MAXIMUM PEAK STAGE			15.13	May 23	**20.86	Feb 20 1997
ANNUAL RUNOFF (AC-FT)	182500		224700		169800	
10 PERCENT EXCEEDS	379		620		420	
50 PERCENT EXCEEDS	147		161		108	
90 PERCENT EXCEEDS	110		110		45	

e Estimated
* Stage 20.15 ft, from floodmark
** Discharge 9150 ft^3/s

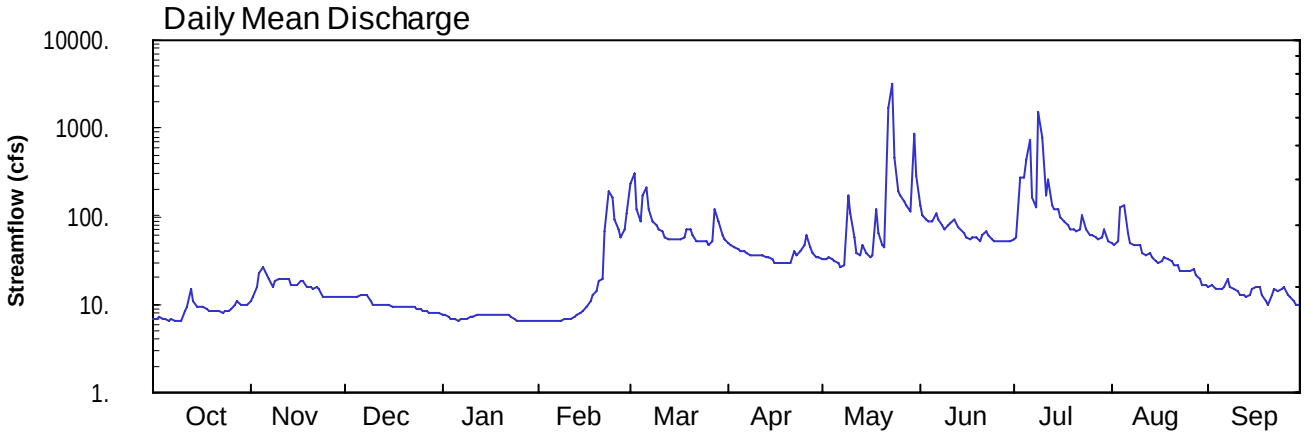
2004 Water Year

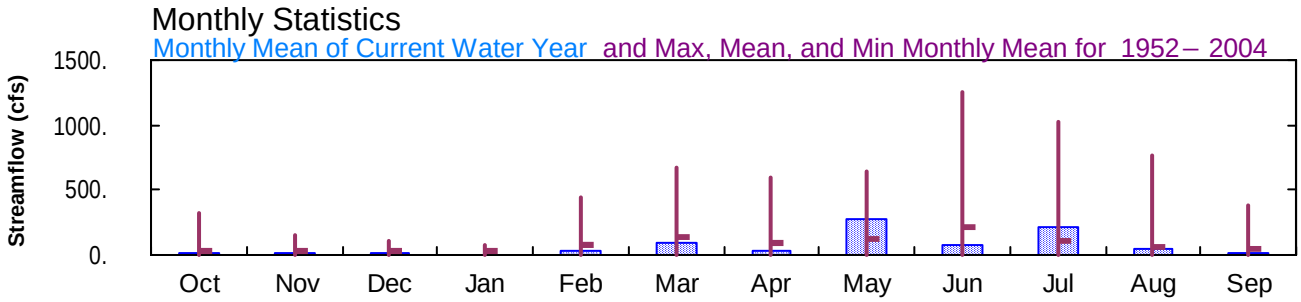
PLATTE RIVER BASIN

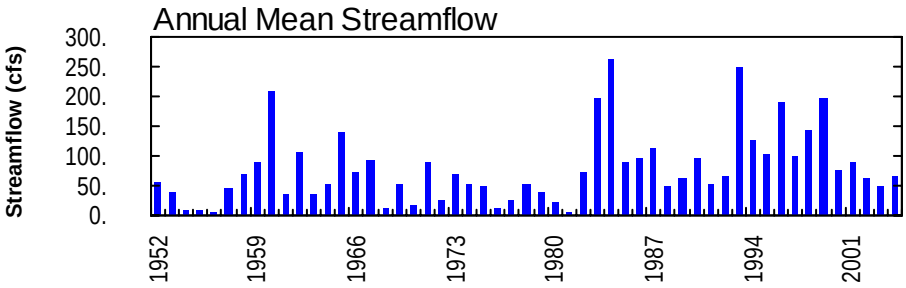
06800000 MAPLE CREEK NEAR NICKERSON, NE

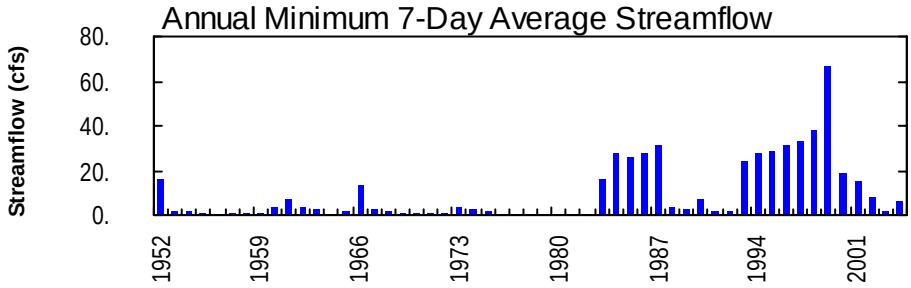
Latitude: 41°33'37" Longitude: 096°32'26" Hydrologic Unit Code: 10220003

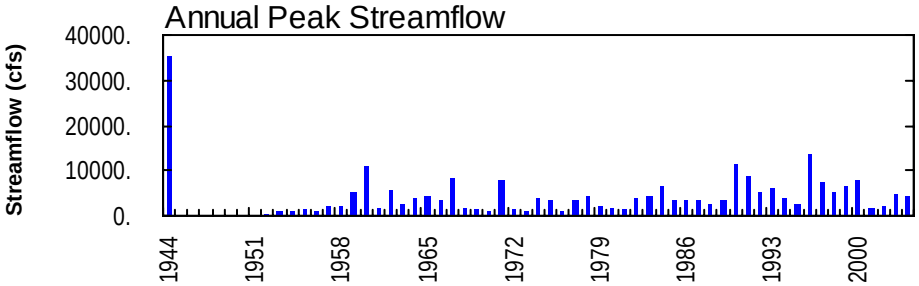
Dodge County Datum: 1211.62 feet Drainage Area: 368. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06800000 MAPLE CREEK NEAR NICKERSON, NE
(National Water-Quality Assessment, NAWQA, station)

LOCATION—Lat 41°33'39", long 96°32'27", in SW 1/4 NW 1/4 sec.4, T.18 N., R.8 E., Dodge County, Hydrologic Unit 10220003, on right bank 8 ft downstream from county road bridge 2 mi upstream from U.S. Highways 77 and 275, 5 mi northwest of Nickerson, and 4 mi upstream from mouth.

DRAINAGE AREA—369 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD—October 1951 to current year.

REVISED RECORDS—WSP 1630: 1957-58. WDR NE-98: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,211.62 ft above sea level. Prior to July 28, 1960, non-recording gage at highway bridge, July 28, 1960 to July 28, 1987, water-stage recorder 180 ft upstream from highway bridge and July 29, 1987 to July 23, 1991 water-stage recorder 30 ft downstream from highway bridge. All at/near U.S. Highway 77 bridge, 2 mi downstream from present gage, at datum 17.06 ft lower. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

PERIODIC WATER-QUALITY RECORDS

PERIOD OF RECORD—April 1993 to current year.

PERIODIC ECOLOGICAL RECORDS

PERIOD OF RECORD—Water years 1993–95, 1997–98, 2002 to current year.

06800000 MAPLE CREEK NEAR NICKERSON, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	11	e12	e7.8	e6.6	239	49	33	132	56	50	16
2	6.9	12	e12	e7.5	e6.6	311	46	33	105	59	48	17
3	7.2	16	e12	e7.1	e6.6	117	44	34	94	280	51	15
4	6.8	23	e12	e6.9	e6.6	88	43	33	87	274	128	15
5	6.7	27	e12	e6.7	e6.6	169	41	31	87	434	133	15
6	6.5	22	13	e6.6	e6.6	212	41	29	107	751	63	16
7	6.7	19	e13	e6.8	e6.6	123	38	27	94	162	50	19
8	6.6	16	e13	e6.8	e6.6	90	36	28	79	124	46	16
9	6.5	18	e11	e7.0	e6.7	78	36	170	73	1550	48	15
10	6.6	19	e10	e7.2	e6.7	72	36	110	81	773	47	14
11	8.5	19	e9.8	e7.4	e7.0	66	36	57	82	173	39	13
12	9.6	19	e9.7	e7.5	e7.2	58	36	39	93	263	37	13
13	15	19	e9.7	e7.6	e7.5	55	35	36	74	132	38	12
14	11	17	e9.7	e7.6	e8.0	54	34	47	73	118	35	13
15	9.2	17	e9.7	e7.6	e8.5	55	32	38	64	120	31	15
16	9.4	17	e9.6	e7.6	e9.5	56	30	34	58	98	29	16
17	9.2	18	e9.6	e7.6	e11	56	29	37	56	90	31	16
18	8.7	18	e9.6	e7.6	e13	57	29	117	59	78	34	13
19	8.6	16	e9.6	e7.6	e14	70	29	65	58	71	32	11
20	8.5	16	e9.5	e7.6	18	71	29	46	52	70	31	10
21	8.3	15	e9.4	e7.6	19	61	29	44	60	69	28	13
22	8.3	16	e9.3	e7.5	67	53	41	1710	68	72	28	15
23	8.1	15	e9.2	e7.4	190	51	37	3130	60	102	24	14
24	8.3	12	e8.8	e6.9	163	52	40	467	54	70	24	15
25	8.4	12	e8.7	e6.6	94	51	46	196	53	62	24	16
26	8.9	e12	e8.4	e6.6	72	48	61	170	52	60	24	13
27	9.8	e12	e8.4	e6.6	59	52	44	148	53	57	25	12
28	11	e12	e8.2	e6.6	73	119	38	134	51	55	21	11
29	10	e12	e8.0	e6.6	109	89	35	114	52	59	19	10
30	10	e12	e8.0	e6.6	---	62	34	876	53	72	17	10
31	10	---	e8.0	e6.6	---	54	---	298	---	53	17	---
TOTAL	266.0	489	310.9	221.7	1015.9	2789	1134	8331	2164	6407	1252	419
MEAN	8.58	16.3	10.0	7.15	35.0	90.0	37.8	269	72.1	207	40.4	14.0
MAX	15	27	13	7.8	190	311	61	3130	132	1550	133	19
MIN	6.5	11	8.0	6.6	6.6	48	29	27	51	53	17	10
AC-FT	528	970	617	440	2020	5530	2250	16520	4290	12710	2480	831

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2004, BY WATER YEAR (WY)

MEAN	36.5	29.9	23.7	24.0	69.0	131	94.2	124	212	102	67.1	45.6
MAX	323	158	102	82.8	446	674	590	642	1252	1023	762	383
(WY)	1983	1999	1999	1999	1971	1962	1984	1984	1960	1993	1996	1965
MIN	0.38	0.66	0.50	0.42	0.55	1.36	1.01	0.72	3.00	1.19	0.59	0.26
(WY)	1982	1982	1981	1982	1979	1957	1981	1981	1956	1976	1976	1981

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1952 - 2004	
ANNUAL TOTAL	17846.4		24799.5			
ANNUAL MEAN	48.9		67.8		79.9	
HIGHEST ANNUAL MEAN					264	1984
LOWEST ANNUAL MEAN					5.19	1956
HIGHEST DAILY MEAN	3390	May 5	3130	May 23	10400	Aug 6 1996
LOWEST DAILY MEAN	1.4	Sep 5	6.5	Oct 6	0.10	Jan 15 1956
ANNUAL SEVEN-DAY MINIMUM	1.5	Sep 3	6.6	Jan 25	0.19	Sep 17 1981
MAXIMUM PEAK FLOW			4450	May 23	*13700	Aug 6 1996
MAXIMUM PEAK STAGE			12.15	May 23	**17.65	Jun 17 1984
ANNUAL RUNOFF (AC-FT)	35400		49190		57880	
10 PERCENT EXCEEDS	55		115		130	
50 PERCENT EXCEEDS	17		27		24	
90 PERCENT EXCEEDS	5.5		7.2		1.4	

e Estimated
* Stage 17.33 ft
** Site and datum then in use; discharge 6430 ft^3/s

06800000 MAPLE CREEK NEAR NICKERSON, NE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Noncarb hard-ness, wat flt field, mg/L as CaCO3 (00904)
OCT													
14...	1130	3.66	12	7.9	728	10.4	105	8.0	634	13.0	13.4	280	6
NOV													
12...	0930	3.83	21	18	732	12.4	99	8.1	910	3.0	4.0	340	18
DEC													
16...	1100	3.73	16	6.5	730	13.3	98	8.0	828	-.2	.8	420	50
JAN													
14...	1130	3.72	16	4.9	731	13.5	105	7.9	775	3.0	3.1	380	35
FEB													
10...	1000	3.65	14	3.0	734	14.5	109	8.1	647	-8.6	2.0	320	37
MAR													
09...	1130	4.46	76	270	736	12.1	100	8.3	781	6.5	5.5	360	30
31...	1030	4.32	54	120	734	11.3	101	8.2	845	6.5	8.5	400	47
APR													
07...	1100	4.18	38	36	723	9.8	99	8.5	735	19.4	13.4	360	32
12...	1000	4.17	37	20	732	12.6	103	8.0	685	4.0	5.2	310	11
19...	1000	4.11	29	20	734	10.2	99	8.1	622	10.0	12.2	250	--
27...	1000	4.31	44	160	734	10.0	97	8.4	796	9.8	12.4	390	35
MAY													
03...	1030	4.17	34	22	731	10.8	102	8.7	799	10.5	11.0	430	73
13...	1030	4.18	35	590	729	10.6	98	8.4	676	6.5	9.9	300	21
18...	0930	4.96	127	11000	730	7.8	82	7.3	483	17.0	15.4	190	19
25...	1030	4.94	189	1330	726	10.1	105	8.3	556	14.5	15.1	250	38
JUN													
01...	1100	4.59	131	2080	724	8.8	96	8.0	520	21.0	17.4	240	32
08...	1030	4.20	80	410	728	7.2	89	8.5	716	E27.0	22.9	360	42
15...	1030	4.08	68	230	725	7.8	92	8.4	755	--	21.1	350	13
22...	0930	4.14	64	64	732	8.8	98	8.4	733	24.0	18.5	340	25
29...	0830	3.96	53	31	735	8.1	90	8.5	681	23.5	18.6	310	28
JUL													
06...	1300	6.30	540	5100	726	5.9	70	7.6	233	22.0	20.8	89	4
13...	1030	4.47	131	750	724	6.7	88	8.1	484	E28.0	26.5	210	5
20...	1000	4.08	71	58	728	8.0	107	8.4	690	29.0	27.6	300	15
27...	0945	4.02	58	52	730	8.8	101	8.6	761	28.0	20.1	360	41
AUG													
04...	1000	3.98	50	56	729	7.8	94	8.8	647	21.7	22.1	280	2
10...	0930	4.08	49	92	734	8.4	96	8.5	715	14.2	20.0	330	14
17...	1030	3.77	29	12	732	9.3	113	8.7	632	22.0	22.8	280	25
24...	1030	3.73	25	11	722	9.5	117	8.6	578	24.0	22.8	250	10
30...	0900	3.65	18	8.8	729	8.9	98	8.2	546	17.8	17.6	230	20
SEP													
07...	0930	3.73	21	14	734	9.5	102	8.4	580	16.0	16.5	260	34

06800000 MAPLE CREEK NEAR NICKERSON, NE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon-ate, wat flt incrm. titr., field, mg/L (00452)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)
OCT													
14...	70.5	25.6	11.7	.7	28.1	17	275	336	.0	12.8	.3	7.96	50.4
NOV													
12...	92.3	27.3	15.8	1	56.0	25	325	397	.0	58.3	.3	16.2	59.0
DEC													
16...	115	32.2	9.23	.7	33.9	15	370	450	.0	13.3	.4	19.3	59.8
JAN													
14...	104	29.9	8.18	.7	31.7	15	348	422	1	12.7	.4	19.2	56.7
FEB													
10...	92.3	22.2	7.55	.6	25.9	15	285	348	--	9.69	.3	22.6	44.2
MAR													
09...	98.2	26.9	19.5	.7	29.2	14	326	390	4	14.0	.4	18.2	60.9
31...	109	31.7	18.2	.8	35.1	15	356	416	9	14.7	.4	17.1	64.7
APR													
07...	94.8	29.6	10.3	.8	35.0	17	327	381	8	13.0	.4	11.0	54.4
12...	78.2	28.4	8.05	.8	33.2	18	301	356	5	13.6	.3	6.72	52.2
19...	58.2	26.1	8.43	.9	31.6	21	265	313	5	12.4	.4	4.64	53.9
27...	105	30.2	25.5	.8	34.1	15	352	403	13	24.0	.4	15.4	56.4
MAY													
03...	116	33.2	10.2	.7	34.2	14	354	416	8	12.4	.4	18.1	54.0
13...	82.7	23.9	15.1	.7	26.9	15	284	337	4	12.3	.5	16.0	46.3
18...	51.6	13.9	12.3	.7	21.3	19	167	203	.0	15.9	.5	10.5	27.2
25...	71.7	16.7	14.3	.5	17.6	13	210	256	--	7.57	.4	13.9	40.6
JUN													
01...	68.3	15.7	14.4	.5	17.5	13	207	247	--	7.78	.5	13.3	34.4
08...	102	25.0	11.4	.6	27.0	14	316	347	19	11.2	.5	18.6	49.9
15...	94.1	27.2	9.67	.7	30.2	15	334	395	6	11.3	.4	19.6	53.9
22...	91.4	27.0	8.76	.7	31.5	16	315	384	--	11.8	.4	18.1	52.5
29...	77.9	27.3	8.23	.8	31.6	18	279	320	10	11.8	.4	15.4	55.4
JUL													
06...	26.6	5.41	12.6	.2	4.94	9	85	103	.0	4.51	.4	8.35	10.7
13...	59.8	13.6	13.1	.5	15.4	13	201	241	2	7.79	.5	13.5	32.4
20...	79.3	25.2	10.4	.7	29.3	17	287	322	14	10.7	.4	19.3	52.9
27...	96.3	28.3	10.9	.9	37.5	18	317	374	6	24.6	.4	18.2	51.6
AUG													
04...	70.7	25.0	9.29	.7	26.5	17	278	329	5	10.5	.4	15.1	52.5
10...	89.1	26.1	10.9	.7	28.8	15	316	348	18	10.6	.4	17.9	52.3
17...	69.3	26.4	9.13	.7	27.3	17	257	294	10	11.0	.4	11.9	53.6
24...	54.6	26.4	8.55	.8	27.6	19	235	281	3	10.2	.4	8.35	52.5
30...	48.8	25.4	9.38	.8	28.8	21	206	249	1	11.0	.4	7.96	53.9
SEP													
07...	56.2	30.0	9.17	.8	31.6	20	230	275	3	10.9	.4	10.5	51.3

06800000 MAPLE CREEK NEAR NICKERSON, NE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Partic-ulate nitro-gen, susp, water, mg/L (49570)	Ortho-phos-phate, water, fltrd, mg/L (00660)
OCT													
14...	380	.52	12.4	382	--	E.03	6.69	1.51	1.54	.089	.027	.20	.613
NOV													
12...	537	.76	31.7	560	.43	.33	14.3	3.22	3.30	.260	.079	.33	1.18
DEC													
16...	527	.72	23.0	532	.07	.05	20.0	4.52	4.54	.079	.024	.17	.610
JAN													
14...	495	.69	21.8	504	--	<.04	21.7	4.90	4.93	.108	.033	.06	.613
FEB													
10...	417	.55	15.3	404	.24	.18	19.9	4.49	4.53	.151	.046	<.02	.638
MAR													
09...	488	.69	104	506	1.58	1.22	21.9	4.96	5.05	.322	.098	1.33	1.35
31...	526	.75	79.9	548	.59	.46	19.2	4.35	4.49	.486	.148	.51	1.66
APR													
07...	460	.64	48.0	468	--	<.04	14.4	3.25	3.26	.043	.013	.40	.806
12...	414	.58	42.8	428	--	<.04	12.1	2.72	2.74	.053	.016	.23	.534
19...	361	.51	29.5	377	--	<.04	6.35	1.43	1.46	.072	.022	.30	.472
27...	519	.76	66.0	556	1.22	.95	13.7	3.09	3.34	.795	.242	.58	1.32
MAY													
03...	509	.67	45.1	492	--	<.04	17.8	4.03	4.06	.089	.027	.14	.880
13...	412	.60	41.4	438	.80	.62	14.9	3.37	3.69	1.05	.321	1.18	1.22
18...	281	.42	106	308	.98	.76	24.7	5.58	5.95	1.20	.365	33.7	.705
25...	331	.46	171	336	.60	.47	20.5	4.62	4.76	.453	.138	4.03	.754
JUN													
01...	312	.45	117	330	.32	.25	16.9	3.83	4.01	.605	.184	4.69	.843
08...	460	.64	102	471	--	<.04	23.8	5.37	5.45	.276	.084	1.32	.997
15...	472	.62	83.9	457	--	<.04	24.3	5.49	5.51	.066	.020	.79	.791
22...	452	.59	74.4	431	--	<.04	21.2	4.79	4.80	.066	.020	.48	.564
29...	395	.58	60.7	424	--	<.04	--	--	<.06	--	<.008	.26	--
JUL													
06...	136	.20	218	149	.54	.42	9.93	2.24	2.35	.335	.102	13.0	.604
13...	293	.42	109	308	--	<.04	15.1	3.40	3.52	.394	.120	.68	.969
20...	421	.58	81.5	425	--	<.04	20.9	4.71	4.75	.099	.030	.60	.451
27...	477	.62	71.5	457	--	<.04	19.2	4.34	4.35	.030	.009	.42	.613
AUG													
04...	393	.55	55.0	407	--	<.04	15.9	3.60	3.62	.053	.016	.35	.512
10...	447	.63	61.0	461	--	<.04	20.6	4.66	4.67	.043	.013	.42	.760
17...	378	.53	30.6	391	--	<.04	15.1	3.41	3.45	.148	.045	.22	.282
24...	339	.47	23.1	343	--	<.04	9.39	2.12	2.16	.115	.035	.46	.095
30...	315	.44	15.7	323	--	<.04	5.42	1.23	1.25	.095	.029	.53	.049
SEP													
07...	346	.47	19.5	344	--	<.04	7.64	1.73	1.76	.115	.035	.41	.107

06800000 MAPLE CREEK NEAR NICKERSON, NE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Total nitro-gen, wat unf by anal ysis, mg/L (62855)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor-ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA ug/L (62850)	2Chloro-2',6'-diethyl acet-anilide wat flt ug/L (61618)
OCT													
14...	.200	.28	2.19	1.2	<.1	1.2	4.5	E6	265	<.09	<.006	--	<.005
NOV													
12...	.386	.57	4.96	2.1	<.1	2.1	9.2	13	231	<.09	<.006	.04	<.005
DEC													
16...	.199	.24	4.88	.9	<.1	.9	3.0	<6	445	<.09	<.006	.03	<.005
JAN													
14...	.200	.25	5.21	.5	<.1	.5	--	E6	377	<.09	<.006	<.02	<.005
FEB													
10...	.208	.25	4.88	.2	<.1	.2	1.9	9	712	<.09	<.006	<.02	<.005
MAR													
09...	.441	1.06	8.19	10.7	<.1	10.6	8.9	E6	22.5	<.09	<.006	.07	<.005
31...	.540	.92	6.29	3.2	<.1	3.2	--	11	34.5	<.09	<.006	.06	<.005
APR													
07...	.263	.39	3.88	2.8	<.1	2.8	--	E4	35.9	<.09	<.006	<.02	<.005
12...	.174	.23	3.18	1.4	<.1	1.4	4.4	8	51.2	<.09	<.006	.02	<.005
19...	.154	.24	2.08	1.9	<.1	1.9	--	E5	26.3	<.09	<.006	.03	<.005
27...	.432	1.18	8.54	4.0	<.1	3.9	--	19	23.7	<.09	<.006	<.02	<.005
MAY													
03...	.287	.38	4.67	1.0	<.1	1.0	--	E4	51.4	<.09	<.006	<.02	<.005
13...	.397	1.08	6.69	8.6	.2	8.4	10.7	<6	22.7	<.09	<.006	.03	<.005
18...	.230	20.1	32.7	267	12.8	254	--	7	2.2	<.09	<.006	.07	<.005
25...	.246	2.50	6.04	34.9	.4	34.6	--	E5	E.8	<.09	<.006	.12	<.005
JUN													
01...	.275	2.87	7.86	39.6	.6	39.0	--	E4	E.6	<.09	<.006	.08	.009
08...	.325	.82	5.64	10.2	<.1	10.1	5.5	<6	7.8	<.09	<.006	.07	<.005
15...	.258	.60	6.28	8.0	<.1	8.0	--	<6	15.7	<.09	<.006	.05	<.005
22...	.184	.36	5.58	3.5	<.1	3.5	--	<6	23.1	<.09	<.006	.04	<.005
29...	<.006	.21	4.58	1.8	<.1	1.8	--	<6	39.8	<.09	<.006	.03	<.005
JUL													
06...	.197	4.42	12.5	114	1.6	112	--	15	E.6	<.09	<.006	.11	<.005
13...	.316	1.63	6.95	5.4	<.1	5.4	6.7	<6	E.5	<.09	<.006	.08	<.005
20...	.147	.35	5.78	3.6	<.1	3.6	--	<6	5.7	<.09	<.006	.03	<.005
27...	.200	.34	5.07	2.2	<.1	2.2	--	<6	28.2	<.09	<.006	<.02	<.005
AUG													
04...	.167	.29	4.13	3.0	<.1	3.0	--	<6	16.7	<.09	<.006	<.02	<.005
10...	.248	.42	5.17	3.7	<.1	3.7	4.3	<6	7.4	<.09	<.006	.10	<.005
17...	.092	.169	3.64	1.3	<.1	1.2	--	E4	29.9	<.09	<.006	<.02	<.005
24...	.031	.132	2.85	2.3	<.1	2.3	--	<6	31.6	<.09	<.006	<.02	<.005
30...	.016	.121	1.95	2.8	<.1	2.8	--	E5	66.6	<.09	<.006	.05	<.005
SEP													
07...	.035	.134	2.49	2.5	<.1	2.5	--	<6	47.0	<.09	<.006	<.02	<.005

06800000 MAPLE CREEK NEAR NICKERSON, NE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto- chlor ESA, water, fltrd 0.7u GF ug/L (61029)	Aceto- chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto- chlor SAA, water, fltrd, ug/L (62847)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor ESA SA, water, fltrd, ug/L (62849)	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala- chlor SAA, water, fltrd, ug/L (62848)	Ala- chlor, water, fltrd, ug/L (46342)
OCT													
14...	E.011	<.004	<.004	<.006	.10	.10	--	.009	--	.06	<.05	--	<.005
NOV													
12...	E.011	<.004	<.004	<.006	.09	.14	.08	.012	<.02	.07	.02	<.02	<.005
DEC													
16...	E.006	<.004	<.004	<.006	.11	.11	.12	.009	<.02	.10	.03	<.02	<.005
JAN													
14...	E.011	<.004	<.004	<.006	.10	.11	<.02	E.003	<.02	.08	<.02	<.02	<.005
FEB													
10...	E.013	<.004	<.004	<.006	.05	.06	<.02	.007	<.02	.08	<.02	<.02	<.005
MAR													
09...	E.015	<.004	<.004	<.006	.26	.69	.19	.035	<.02	.09	.06	<.02	<.005
31...	E.010	<.004	<.004	<.006	.17	.26	<.02	.011	<.02	.06	.02	<.02	<.005
APR													
07...	E.007	M	<.004	<.006	.11	.16	.03	.008	<.02	.06	.02	<.02	<.005
12...	E.012	<.004	<.004	<.006	.12	.14	.02	.013	<.02	.08	<.02	<.02	<.005
19...	E.016	<.004	<.004	<.006	.11	.16	.02	.070	<.02	.08	.02	<.02	.009
27...	E.029	<.004	<.004	<.006	.23	.29	.07	.144	<.02	.07	.03	<.02	<.005
MAY													
03...	E.012	<.004	<.004	<.006	.11	.11	<.02	.142	<.02	.08	.02	<.02	E.004
13...	E.306	E.011	<.004	<.006	.45	1.54	.12	9.54	<.02	.07	.04	.18	.077
18...	E.732	E.009	<.004	<.006	1.57	3.27	.91	E62.3	.35	.05	.04	.59	.181
25...	E.569	E.003	<.004	<.006	1.87	2.91	1.50	12.4	<.02	.08	.05	.45	.146
JUN													
01...	E.604	E.005	<.004	<.006	1.94	3.06	.97	6.58	.07	.08	.04	.95	.172
08...	E.375	E.003	<.004	<.006	1.09	1.94	.31	2.44	.04	.08	.04	.24	.040
15...	E.133	E.003	<.004	<.006	.37	.80	.09	.478	<.02	.07	.03	<.02	.015
22...	E.128	E.003	<.004	<.006	.33	.60	.08	.200	<.02	.05	.02	<.02	.009
29...	E.054	E.002	<.004	<.006	.25	.44	<.02	.166	<.02	.05	.02	<.02	<.005
JUL													
06...	E.274	<.004	<.004	<.006	1.00	1.71	.26	.640	<.02	.02	.02	<.02	.019
13...	E.088	<.004	<.004	<.006	.66	.95	.19	.189	.03	.06	.04	<.02	.010
20...	E.053	<.004	<.004	<.006	.34	.50	.07	.059	<.02	.05	.02	<.02	.007
27...	E.051	E.003	<.004	<.006	.26	.36	<.02	.039	<.02	.05	.02	<.02	.007
AUG													
04...	E.041	E.003	<.004	<.006	.23	.31	.04	.025	<.02	.04	.03	<.02	.009
10...	E.027	<.004	<.004	<.006	.30	.30	<.02	.027	<.02	.07	.02	<.02	.005
17...	E.023	<.004	<.004	<.006	.17	.18	<.02	.017	<.02	.04	<.02	<.02	<.005
24...	E.024	<.004	<.004	<.006	.22	.18	<.02	.016	<.02	.07	<.02	<.02	<.005
30...	E.025	<.004	<.004	<.006	.19	.22	.03	.019	.02	.08	.02	<.02	<.005
SEP													
07...	E.019	<.004	<.004	<.006	.17	.19	<.02	.013	<.02	.07	.02	<.02	<.005

06800000 MAPLE CREEK NEAR NICKERSON, NE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	alpha-HCH, water, fltrd, ug/L (34253)	alpha-HCH-d6, surrog, Sch2003 wat flt percent recovry (99995)	alpha-HCH-d6, surrog, wat flt 0.7u GF percent recovry (91065)	Amino-methyl-phos-phonic acid, wat flt ug/L (62649)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673)	Butyl-ate, water, fltrd, ug/L (04028)	Car-baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd 0.7u GF ug/L (82674)	Chlor-pyrifos oxon, water, fltrd, ug/L (61636)	Chlor-pyrifos water, fltrd, ug/L (38933)
OCT													
14...	<.005	81.8	102	--	.083	<.02	<.050	<.010	<.004	<.041	<.020	<.06	<.005
NOV													
12...	--	80.5	--	--	.079	<.03	<.050	<.010	--	<.041	--	<.06	<.005
DEC													
16...	<.005	86.2	105	--	.067	<.02	<.050	<.010	<.004	<.041	<.040	<.06	<.005
JAN													
14...	--	80.6	--	--	.061	<.03	<.050	<.010	--	<.041	--	<.06	<.005
FEB													
10...	<.005	85.3	81.8	--	.047	<.02	<.050	<.010	<.004	<.041	<.020	<.06	<.005
MAR													
09...	--	92.1	--	--	.071	<.02	<.050	<.010	--	<.041	--	<.06	<.005
31...	--	85.3	--	.3	.051	<.02	<.050	<.010	--	<.041	--	<.06	<.005
APR													
07...	--	88.6	--	1.4	.040	<.02	<.050	<.010	--	<.041	--	<.06	<.005
12...	<.005	87.6	97.2	.1	.049	<.02	<.050	<.010	<.004	<.041	<.020	<.06	<.005
19...	--	83.5	--	1.6	.392	<.02	<.050	<.010	--	<.041	--	<.06	<.005
27...	--	87.4	--	.3	.445	<.02	<.050	<.010	--	<.041	--	<.06	<.005
MAY													
03...	--	93.1	--	.2	.193	<.02	<.050	<.010	--	<.041	--	<.06	<.005
13...	<.005	86.9	102	.6	19.0	<.02	<.050	<.010	<.004	<.041	<.020	<.06	<.020
18...	--	94.2	--	.6	E91.9	<.02	<.050	<.010	--	<.041	--	<.06	.007
25...	--	77.2	--	.6	E29.6	<.02	<.050	<.010	--	<.041	--	<.06	E.005
JUN													
01...	--	80.3	--	.4	13.3	<.02	<.050	<.010	--	<.041	--	<.06	.016
08...	<.005	77.6	89.7	.3	15.1	<.02	<.050	<.010	<.004	<.041	<.030	<.06	<.005
15...	--	97.1	--	.6	3.45	<.02	<.050	<.010	--	<.041	--	<.06	<.005
22...	--	91.7	--	.5	1.58	<.02	<.050	<.010	--	<.041	--	<.06	.006
29...	--	97.8	--	.4	1.16	<.02	<.050	<.010	--	<.041	--	<.06	<.005
JUL													
06...	--	94.2	--	1.1	1.95	<.07	<.050	<.010	--	<.041	--	<.06	.009
13...	<.005	98.8	79.7	1.9	.934	<.07	<.050	<.010	<.004	<.041	<.020	<.06	<.005
20...	--	91.4	--	1.1	.648	<.07	<.050	<.010	--	<.041	--	<.06	<.005
27...	--	85.0	--	1.3	.351	<.07	<.050	<.010	--	<.041	--	<.06	.006
AUG													
04...	--	78.4	--	.8	.268	<.07	<.050	<.010	--	<.041	--	<.06	.007
10...	<.005	87.2	88.4	1.4	.230	<.07	<.050	<.010	<.004	<.041	<.020	<.06	E.005
17...	--	86.3	--	.4	.255	<.07	<.050	<.010	--	<.041	--	<.06	.012
24...	--	84.6	--	.4	.253	<.07	<.050	<.010	--	<.041	--	<.06	.029
30...	--	85.2	--	.4	.245	<.07	<.050	<.010	--	<.041	--	<.06	.022
SEP													
07...	<.005	88.6	90.3	.3	.168	<.07	<.050	<.010	<.004	<.041	<.020	<.06	.006

06800000 MAPLE CREEK NEAR NICKERSON, NE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	cis-Per-methrin water fltrd 0.7u GF ug/L (82687)	Cyana-zine, water, fltrd, ug/L (04041)	Cyflu-thrin, water, fltrd, ug/L (61585)	Cyper-methrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diaz-inon oxon, water, fltrd, ug/L (61638)	Diazi-non, water, fltrd, ug/L (39572)	Dicro-tophos, water fltrd, ug/L (38454)	Diel-drin, water, fltrd, ug/L (39381)	Dimeth-enamid ESA, water, fltrd, ug/L (61951)	Dimeth-enamid OA, water, fltrd, ug/L (62482)	Dimeth-enamid water, fltrd, ug/L (61588)
OCT													
14...	<.006	<.018	<.008	<.009	.003	<.012	<.01	E.004	<.08	<.010	<.05	<.05	--
NOV													
12...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
DEC													
16...	<.006	<.018	<.008	<.009	<.003	<.012	<.01	<.005	--	<.009	<.02	<.02	<.02
JAN													
14...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
FEB													
10...	<.006	<.018	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
MAR													
09...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
31...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
APR													
07...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
12...	<.006	<.018	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
19...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
27...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
MAY													
03...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	.05
13...	<.006	<.018	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	.89
18...	<.006	--	<.008	<.009	<.003	E.004	<.01	<.005	<.08	<.009	.22	.35	7.00
25...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	.04	.07	1.02
JUN													
01...	<.006	--	<.008	<.009	.004	E.007	<.01	.011	<.08	<.009	.06	.07	.50
08...	<.006	.052	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	.02	.05	.14
15...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	.02	.03
22...	<.006	--	<.008	<.009	<.003	E.005	<.01	<.005	<.08	<.009	<.02	<.02	.02
29...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
JUL													
06...	<.006	--	<.008	<.009	.004	E.006	<.01	<.005	<.08	<.009	.03	.15	.07
13...	<.006	E.018	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	.02	<.02	.03
20...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
27...	<.006	--	<.008	<.009	<.003	E.007	<.01	<.005	<.08	<.009	<.02	<.02	<.02
AUG													
04...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
10...	<.006	<.018	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
17...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
24...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
30...	<.006	--	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02
SEP													
07...	<.006	<.018	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02

06800000 MAPLE CREEK NEAR NICKERSON, NE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Dimeth-oate, water, fltrd 0.7u GF ug/L (82662)	Disul-foton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal-flur-alin, water, fltrd 0.7u GF ug/L (82663)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Etho-prop, water, fltrd 0.7u GF ug/L (82672)	Fenami-phos sulfone water, fltrd, ug/L (61645)	Fenami-phos sulf-oxide, water, fltrd, ug/L (61646)	Fenami-phos, water, fltrd, ug/L (61591)	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169)	Fipro-nil sulfide water, fltrd, ug/L (62167)	Fipro-nil sulfone water, fltrd, ug/L (62168)
OCT													
14...	<.006	<.02	<.004	<.009	<.03	<.004	<.005	<.008	<.03	<.03	<.029	<.013	<.024
NOV													
12...	<.006	--	--	--	<.03	<.004	--	<.008	<.03	<.03	<.029	<.013	<.024
DEC													
16...	<.006	<.02	<.004	<.009	<.03	<.004	<.005	<.008	<.03	<.03	<.029	<.013	<.024
JAN													
14...	<.006	--	--	--	<.03	<.004	--	<.008	<.03	<.03	<.029	<.013	<.024
FEB													
10...	<.006	<.02	<.004	<.009	<.03	<.004	<.005	<.008	<.03	<.03	<.029	<.013	<.024
MAR													
09...	<.006	--	--	--	<.03	<.004	--	<.008	<.03	<.03	<.029	E.005	E.004
31...	<.006	--	--	--	<.03	<.004	--	<.008	<.03	<.03	<.029	<.013	<.024
APR													
07...	<.006	--	--	--	<.03	<.004	--	<.008	<.03	<.03	<.029	<.013	<.024
12...	<.006	<.02	<.004	<.009	<.03	<.004	<.005	<.008	<.03	<.03	<.029	<.013	<.024
19...	<.006	--	--	--	<.03	<.004	--	<.008	<.03	<.03	<.029	<.013	<.024
27...	<.006	--	--	--	<.03	<.004	--	<.008	<.03	<.03	<.029	<.013	<.024
MAY													
03...	<.006	--	--	--	<.03	<.004	--	<.008	<.03	<.03	<.029	<.013	<.024
13...	<.006	<.02	<.004	<.009	<.03	<.004	<.005	<.008	<.03	<.03	<.029	<.013	E.009
18...	<.006	--	--	--	<.03	<.004	--	<.008	<.03	<.03	<.029	E.012	.028
25...	<.006	--	--	--	<.03	<.004	--	<.008	<.03	<.03	<.029	E.002	E.005
JUN													
01...	<.006	--	--	--	<.03	<.004	--	<.008	<.03	<.03	<.029	E.006	E.012
08...	<.006	<.02	<.004	<.009	<.03	<.004	<.005	<.008	<.03	<.03	E.002	E.003	E.007
15...	<.006	--	--	--	<.03	<.004	--	<.008	<.03	<.03	<.029	<.013	<.024
22...	<.006	--	--	--	<.03	<.004	--	<.008	<.03	<.03	<.029	E.002	E.002
29...	<.006	--	--	--	<.03	<.004	--	<.008	<.03	<.03	<.029	<.013	<.024
JUL													
06...	<.006	--	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	E.008	E.016
13...	<.006	<.02	<.004	<.009	<.0020	<.004	<.005	<.049	<.04	<.03	<.029	E.004	E.008
20...	<.006	--	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	<.013	E.007
27...	<.006	--	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	E.007	E.009
AUG													
04...	<.006	--	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	E.006	E.007
10...	<.006	<.02	<.004	<.009	<.0020	<.004	<.005	<.049	<.04	<.03	<.029	<.013	E.004
17...	<.006	--	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	<.013	<.024
24...	<.006	--	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	<.013	<.024
30...	<.006	--	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	<.013	<.024
SEP													
07...	<.006	<.02	<.004	<.009	<.0020	<.004	<.005	<.049	<.04	<.03	<.029	<.013	<.024

06800000 MAPLE CREEK NEAR NICKERSON, NE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Fipro-nil, water, fltrd, ug/L (62166)	Flufen-acet ESA, water, fltrd, ug/L (61952)	Flufe-nacet OA, water, fltrd, ug/L (62483)	Flufe-nacet, water, fltrd, ug/L (62481)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Glufo-sinate, water, fltrd 0.7u GF ug/L (62721)	Glypho-sate, water, fltrd 0.7u GF ug/L (62722)	Hexa-zinone, water, fltrd, ug/L (04025)	Ipro-dione, water, fltrd, ug/L (61593)	Isofen-phos, water, fltrd, ug/L (61594)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)
OCT													
14...	<.016	<.05	<.05	--	<.002	<.003	--	--	<.013	<1	<.003	<.004	<.035
NOV													
12...	<.016	<.02	<.02	<.02	<.002	<.003	--	--	<.013	<1	<.003	--	--
DEC													
16...	<.016	<.02	<.02	<.02	<.002	<.003	--	--	<.013	<1	<.003	<.004	<.035
JAN													
14...	<.016	<.02	<.02	<.02	<.002	<.003	--	--	<.013	<1	<.003	--	--
FEB													
10...	<.016	<.02	<.02	<.02	<.002	<.003	--	--	<.013	<1	<.003	<.004	<.035
MAR													
09...	E.004	<.02	<.02	<.02	<.002	<.003	--	--	<.013	<1	<.003	--	--
31...	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.2	<.013	<1	<.003	--	--
APR													
07...	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1	<.003	--	--
12...	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1	<.003	<.004	<.035
19...	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1	<.003	--	--
27...	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.1	<.013	<1	<.003	--	--
MAY													
03...	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1	<.003	--	--
13...	E.025	<.02	<.02	.30	<.002	<.003	<.1	.2	<.013	<1	<.003	<.004	<.035
18...	.046	<.02	<.02	.44	<.002	<.003	<.1	<.1	<.013	<1	<.003	--	--
25...	E.011	.03	<.02	.31	<.002	<.003	<.1	<.1	<.013	<1	<.003	--	--
JUN													
01...	E.022	.02	<.02	.07	<.002	<.003	<.1	.3	<.013	<1	<.003	--	--
08...	E.008	.02	<.02	.12	<.002	<.003	<.1	.2	<.013	<1	<.003	<.004	<.035
15...	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.3	<.013	<1	<.003	--	--
22...	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.2	<.013	<1	<.003	--	--
29...	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1	<.003	--	--
JUL													
06...	.021	<.02	<.02	.03	<.003	<.003	<.1	.5	<.013	<.387	<.003	--	--
13...	E.010	<.02	<.02	<.02	<.003	<.003	<.1	.5	<.013	<.387	<.003	<.004	<.035
20...	<.016	<.02	<.02	<.02	<.003	<.003	<.1	.4	<.013	<.387	<.003	--	--
27...	<.016	<.02	<.02	<.02	<.003	<.003	<.1	.3	<.013	<.387	<.003	--	--
AUG													
04...	<.016	<.02	<.02	<.02	<.003	<.003	<.1	.3	<.013	<.387	<.003	--	--
10...	<.016	<.02	<.02	<.02	<.003	<.003	<.1	.3	<.013	<.387	<.003	<.004	<.035
17...	<.016	<.02	<.02	<.02	<.003	<.003	<.1	.1	<.013	<.387	<.003	--	--
24...	<.016	<.02	<.02	<.02	<.003	<.003	<.1	<.1	<.013	<.387	<.003	--	--
30...	<.016	<.02	<.02	<.02	<.003	<.003	<.1	<.1	<.013	<.387	<.003	--	--
SEP													
07...	<.016	<.02	<.02	<.02	<.003	<.003	<.1	<.1	<.013	<.387	<.003	<.004	<.035

06800000 MAPLE CREEK NEAR NICKERSON, NE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metolachlor OA, water, fltrd 0.7u GF ug/L (61044)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Myclobutanil water, fltrd, ug/L (61599)	Napropamide, water, fltrd 0.7u GF ug/L (82684)
OCT													
14...	<.008	<.027	<.005	<.006	<.03	<.015	.07	<.05	.019	<.006	<.003	<.008	<.007
NOV													
12...	<.008	<.027	<.005	<.006	<.03	<.015	.09	.04	.015	<.006	--	<.008	--
DEC													
16...	<.008	<.027	<.005	<.006	<.03	<.015	.10	.03	.016	<.006	<.003	<.008	<.007
JAN													
14...	<.008	<.027	<.005	<.006	<.03	<.015	.08	.02	E.011	<.006	--	<.008	--
FEB													
10...	<.008	<.027	<.005	<.006	<.03	<.015	.06	.03	E.011	<.006	<.003	<.008	<.007
MAR													
09...	<.008	<.027	<.005	<.006	<.03	<.015	.09	.14	.023	<.006	--	<.008	--
31...	<.008	<.027	<.005	<.006	<.03	<.015	.07	.06	E.012	.007	--	<.008	--
APR													
07...	<.008	<.027	<.005	<.006	<.03	<.015	.08	.03	E.012	<.006	--	<.008	--
12...	<.008	<.027	<.005	<.006	<.03	<.015	.07	.04	.014	<.006	<.003	<.008	<.007
19...	<.008	<.027	<.005	<.006	<.03	<.015	.08	.04	.174	<.006	--	<.008	--
27...	<.008	<.027	<.005	<.006	<.03	<.015	.08	.05	.098	<.006	--	<.008	--
MAY													
03...	<.008	<.027	<.005	<.006	<.03	<.015	.11	.03	.040	<.006	--	<.008	--
13...	<.008	<.027	<.005	<.006	<.03	<.015	.12	.09	2.14	.102	<.003	<.008	<.007
18...	<.008	<.027	<.005	<.006	<.03	<.015	.07	.07	1.02	.115	--	<.008	--
25...	<.008	<.027	<.005	<.006	<.03	<.015	.21	.19	1.87	.039	--	<.008	--
JUN													
01...	<.008	<.027	<.005	<.006	<.03	<.015	.25	.23	1.77	.029	--	<.008	--
08...	<.008	<.027	<.005	<.006	<.03	<.015	.17	.15	.722	.034	<.003	<.008	<.007
15...	<.008	<.027	<.005	<.006	<.03	<.015	.06	.05	.288	<.008	--	<.008	--
22...	<.008	<.027	<.005	<.006	<.03	<.015	.08	.05	.157	<.006	--	<.008	--
29...	<.008	<.027	<.005	<.006	<.03	<.015	.07	.04	.124	<.006	--	<.008	--
JUL													
06...	<.030	<.027	<.005	<.006	<.03	<.015	.20	.18	.487	.033	--	<.008	--
13...	<.030	<.027	<.005	<.006	<.03	<.015	.16	.14	.245	.012	<.003	<.008	<.007
20...	<.030	<.027	<.005	<.006	<.03	<.015	.06	.06	.101	<.006	--	<.008	--
27...	<.030	<.027	<.005	<.006	<.03	<.015	.10	.05	.064	.010	--	<.008	--
AUG													
04...	<.030	<.027	<.005	<.006	<.03	<.015	.05	.05	.039	<.006	--	<.008	--
10...	<.030	<.027	<.005	<.006	<.03	<.015	.13	.05	.033	<.006	<.003	<.008	<.007
17...	<.030	<.027	<.005	<.006	<.03	<.015	.09	.02	.027	<.006	--	<.008	--
24...	<.030	<.027	<.005	<.006	<.03	<.015	.17	.03	.027	<.006	--	<.008	--
30...	<.030	<.027	<.005	<.006	<.03	<.015	.13	.04	.027	<.006	--	<.008	--
SEP													
07...	<.030	<.027	<.005	<.006	<.03	<.015	.10	.03	.019	<.006	<.003	<.008	<.007

06800000 MAPLE CREEK NEAR NICKERSON, NE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propachlor OA, water, fltrd 0.7u GF ug/L (62767)
OCT													
14...	<.005	<.010	<.004	<.022	<.10	<.011	<.06	<.008	.01	<.005	<.004	--	--
NOV													
12...	--	--	--	<.022	<.10	<.011	--	<.008	.01	<.005	<.004	<.05	<.02
DEC													
16...	<.003	<.010	<.004	<.022	<.10	<.011	<.06	<.008	.01	<.005	<.004	<.05	<.02
JAN													
14...	--	--	--	<.022	<.10	<.011	<.06	<.008	M	<.005	<.004	<.05	<.02
FEB													
10...	<.003	<.010	<.004	<.022	<.10	<.011	<.06	<.008	.01	<.005	<.004	<.05	<.02
MAR													
09...	--	--	--	<.022	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02
31...	--	--	--	<.022	<.10	<.011	--	--	<.01	<.005	<.004	<.05	<.02
APR													
07...	--	--	--	<.022	<.10	<.011	--	--	M	<.005	<.004	<.05	<.02
12...	<.003	<.010	<.004	<.022	<.10	<.011	<.06	<.008	.01	<.005	<.004	<.05	<.02
19...	--	--	--	E.009	<.10	<.011	<.06	<.008	M	<.005	<.004	<.05	<.02
27...	--	--	--	E.009	<.10	<.011	<.06	<.008	E.01	<.005	<.004	<.05	<.02
MAY													
03...	--	--	--	<.022	<.10	<.011	<.06	<.008	M	<.005	<.004	<.05	<.02
13...	<.003	<.010	<.004	<.022	<.10	<.011	<.06	<.008	.02	<.005	<.004	<.05	<.02
18...	--	--	--	<.022	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02
25...	--	--	--	E.020	<.10	<.011	--	<.008	.01	<.005	<.004	<.05	<.02
JUN													
01...	--	--	--	.051	<.10	<.011	<.06	<.008	.02	<.005	<.004	<.05	<.02
08...	<.003	<.010	<.004	.175	<.10	<.011	<.06	<.008	.03	<.005	<.004	<.05	<.02
15...	--	--	--	E.019	<.10	<.011	--	<.008	.01	<.005	<.004	<.05	<.02
22...	--	--	--	E.010	<.10	<.011	<.06	<.008	.01	<.005	<.004	<.05	<.02
29...	--	--	--	<.022	<.10	<.011	<.06	<.008	.01	<.005	<.004	<.05	<.02
JUL													
06...	--	--	--	.040	<.10	<.011	<.05	<.008	.02	<.005	<.004	<.05	<.02
13...	<.003	<.010	<.004	E.017	<.10	<.011	<.05	<.008	.01	<.005	<.004	<.05	<.02
20...	--	--	--	<.022	<.10	<.011	<.05	<.008	.01	<.005	<.004	<.05	<.02
27...	--	--	--	<.022	<.10	<.011	<.05	<.008	.02	<.005	<.004	<.05	<.02
AUG													
04...	--	--	--	<.022	<.10	<.011	--	--	<.02	<.005	<.004	<.05	<.02
10...	<.003	<.010	<.004	<.022	<.10	<.011	--	--	E.01	<.005	<.004	<.05	<.02
17...	--	--	--	<.022	<.10	<.011	--	<.008	.01	<.005	<.004	<.05	<.02
24...	--	--	--	<.022	<.10	<.011	<.05	<.008	.01	<.005	<.004	<.05	<.02
30...	--	--	--	<.022	<.10	<.011	<.05	<.008	.02	<.005	<.004	<.05	<.02
SEP													
07...	<.003	<.010	<.004	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.05	<.02

06800000 MAPLE CREEK NEAR NICKERSON, NE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Propa-chlor, water, fltrd, ug/L (04024)	Pro-panil, water, fltrd 0.7u GF ug/L (82679)	Propar-gite, water, fltrd 0.7u GF ug/L (82685)	Sima-zine, water, fltrd, ug/L (04035)	Tebu-thiuron water fltrd 0.7u GF ug/L (82670)	Terba-cil, water, fltrd 0.7u GF ug/L (82665)	Ter-bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu-fos, water, fltrd 0.7u GF ug/L (82675)	Ter-buthyl-azine, water, fltrd, ug/L (04022)	Thio-bencarb water fltrd 0.7u GF ug/L (82681)	Tri-allate, water, fltrd 0.7u GF ug/L (82678)	Tri-flur-alin, water, fltrd 0.7u GF ug/L (82661)	Di-chlor-vos, water fltrd, ug/L (38775)
OCT													
14...	<.025	<.011	<.02	<.005	<.02	<.034	<.07	<.02	<.01	<.010	<.002	<.009	<.01
NOV													
12...	--	--	--	<.005	<.02	--	<.07	<.02	<.01	--	--	E.004	<.01
DEC													
16...	<.025	<.011	<.02	<.005	<.02	<.034	<.07	<.02	<.01	<.010	<.002	<.009	<.01
JAN													
14...	--	--	--	<.005	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
FEB													
10...	<.025	<.011	<.02	<.005	<.02	<.034	<.07	<.02	<.01	<.010	<.002	<.009	<.01
MAR													
09...	--	--	--	<.005	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
31...	--	--	--	<.005	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
APR													
07...	--	--	--	<.005	<.02	--	<.07	<.02	<.01	--	--	E.004	<.01
12...	<.025	<.011	<.02	<.005	<.02	<.034	<.07	<.02	<.01	<.010	<.002	<.009	<.01
19...	--	--	--	E.003	<.02	--	<.07	<.02	<.01	--	--	E.006	<.01
27...	--	--	--	<.005	E.01	--	<.07	<.02	<.01	--	--	E.004	<.01
MAY													
03...	--	--	--	<.005	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
13...	<.025	<.011	<.02	<.005	<.02	<.034	<.07	<.02	.02	<.010	<.002	E.006	<.01
18...	--	--	--	<.005	<.02	--	<.07	<.02	.07	--	--	.012	<.01
25...	--	--	--	E.034	<.02	--	<.07	<.02	.02	--	--	.013	<.01
JUN													
01...	--	--	--	.063	<.02	--	<.07	<.02	.02	--	--	.016	<.01
08...	<.025	<.011	<.02	.043	<.02	<.034	<.07	<.02	E.01	<.010	<.002	E.004	<.01
15...	--	--	--	.015	<.02	--	<.07	<.02	E.01	--	--	<.009	<.01
22...	--	--	--	.012	<.02	--	<.07	<.02	E.01	--	--	E.001	<.01
29...	--	--	--	E.004	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
JUL													
06...	--	--	--	.019	<.02	--	<.07	<.02	E.01	--	--	.022	<.01
13...	<.025	<.011	<.02	.010	<.02	<.034	<.07	<.02	M	<.010	<.002	E.005	<.01
20...	--	--	--	.006	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
27...	--	--	--	.007	<.02	--	<.07	<.02	<.01	--	--	E.003	<.01
AUG													
04...	--	--	--	.007	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
10...	<.025	<.011	<.02	<.005	<.02	<.034	<.07	<.02	<.01	<.010	<.002	<.009	<.01
17...	--	--	--	<.005	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
24...	--	--	--	<.005	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
30...	--	--	--	<.005	<.02	--	<.07	<.02	<.01	--	--	<.009	<.01
SEP													
07...	<.025	<.011	<.02	<.005	<.02	<.034	<.07	<.02	<.01	<.010	<.002	<.009	<.01

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
OCT			
14...	97	15	.49
NOV			
12...	--	98	5.6
DEC			
16...	--	--	--
JAN			
14...	--	154	6.7
FEB			
10...	--	--	
MAR			
09...	--	417	86
31...	--	241	35
APR			
07...	--	130	13
12...	60	82	8.2
19...	--	41	3.2
27...	--	210	25
MAY			
03...	--	102	9.4
13...	--	579	55
18...	--	14400	4950
25...	--	2130	1090
JUN			
01...	--	2070	731
08...	94	312	67
15...	--	371	68
22...	--	208	36
29...	--	65	9.3
JUL			
06...	--	5840	8520
13...	--	1600	565
20...	--	208	40
27...	--	96	15
AUG			
04...	--	105	14
10...	88	272	36
17...	--	55	4.3
24...	--	16	1.1
30...	--	--	--
SEP			
07...	--	--	--

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

ECOLOGICAL DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Biomass peri-phyton, ashfree drymass g/m2 (49954)	Biomass peri-phyton, ashfree dry wt, DTH, g/m2 (63766)	Biomass peri-phyton, ash weight, DTH, g/m2 (63765)	Peri-phyton biomass ash weight, g/m2 (00572)	Biomass peri-phyton, dry weight, DTH, g/m2 (63767)	Peri-phyton biomass dry weight, g/m2 (00573)	Chloro-phyll a peri-phyton, DTH, CF meth mg/m2 (63763)	Pheo-phytn a peri-phyton, DTH, CF meth mg/m2 (63764)	Pheo-phytin a, peri-phyton, mg/m2 (62359)
SEP													
16...	1200	8.4	565	20.3	26.7	77.6	3460	440	3530	465.4	E51.5	E82.7	E26

ECOLOGICAL DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Chloro-phyll a peri-phyton, chromo-fluoro, mg/m2 (70957)
SEP	
16...	E50.4

Remark codes used in this table:
E -- Estimated value

2004 Water Year

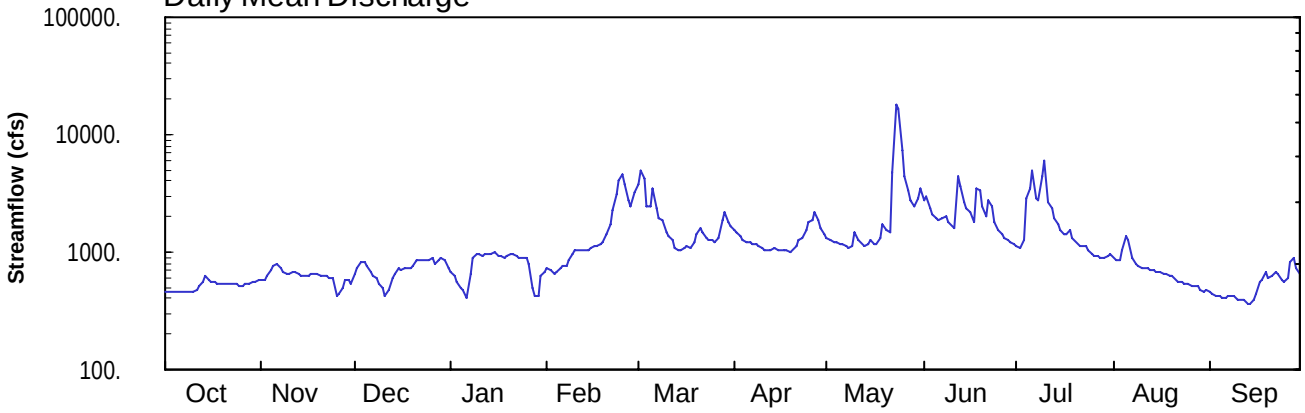
PLATTE RIVER BASIN

06800500 ELKHORN RIVER AT WATERLOO, NE

Latitude: 41° 17 ' 35" Longitude: 096° 17 ' 01" Hydrologic Unit Code: 10220003

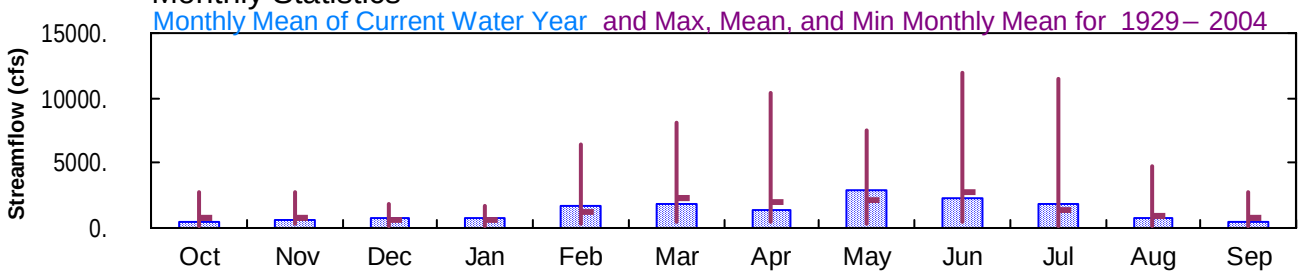
Douglas County Datum: 1104.73 feet Drainage Area: 6900. mi²

Daily Mean Discharge

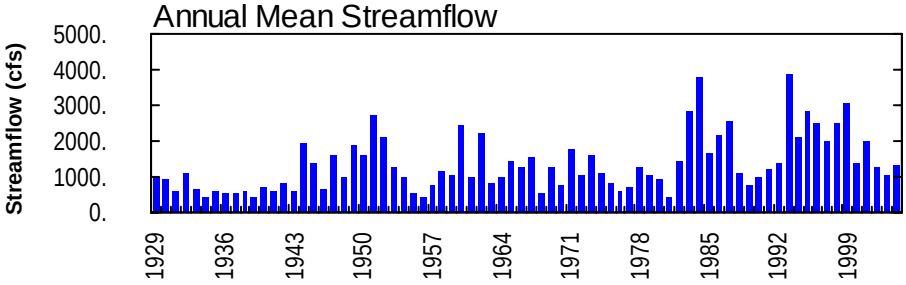


Monthly Statistics

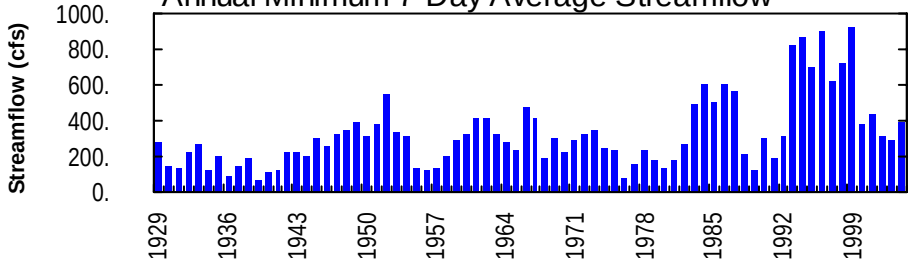
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1929 – 2004



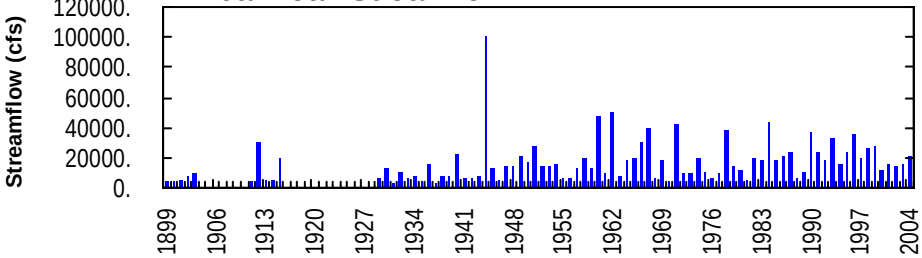
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



NO PHOTOS AVAILABLE FOR THIS SITE

06800500 ELKHORN RIVER AT WATERLOO, NE
(National Water-Quality Assessment, NAWQA, station)

LOCATION—Lat 41°17'37", long 96°17'00", in SW 1/4 sec.3, T.15 N., R.10 E., Douglas County, Hydrologic Unit 10220003, on right bank at Nebraska Highway 64 bridge at north edge of Waterloo, 3.5 mi downstream from Rawhide Creek, and at mile 13.8.

DRAINAGE AREA—6,900 mi^2, approximately, of which about 5,870 mi^2 contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD—April 1899 to November 1903, May 1911 to September 1915, August 1928 to current year. Published as “at Arlington” 1899-1903, July 1913 to September 1915. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS—WSP 1390: 1914 (M), 1915, 1936, 1943(M). WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,104.73 ft above sea level. Oct. 1, 1960, to July 27, 1978, at datum 2.00 ft higher. See WSP 1918 for history of changes prior to Oct. 1, 1960. July 28, 1978 to Nov. 17, 1993, at site 800 ft downstream at present datum. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor. Some small diversions above station for irrigation.

PERIODIC WATER-QUALITY RECORDS

PERIOD OF RECORD—Water years 1948–49, 1960, 1967–95, 2003 to current year.

PERIODIC ECOLOGICAL RECORDS

PERIOD OF RECORD—Water years 1993–95, 2002 to current year.

06800500 ELKHORN RIVER AT WATERLOO, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	450	572	644	e680	e720	e3800	e1550	1340	2780	1110	903	464
2	453	581	742	e620	e700	e5000	1450	1260	3010	1100	839	444
3	457	627	835	e560	e660	e4200	1350	1220	2340	1240	846	427
4	461	706	819	e500	e680	e2500	1270	1200	2120	2870	1060	417
5	464	759	759	e480	e720	e2500	1230	1190	1960	3430	1360	408
6	462	785	673	e400	e760	e3500	1210	1180	1860	4860	1280	410
7	465	740	630	e640	e760	e2400	1190	1140	1950	2860	897	419
8	461	689	e600	e880	e860	e1950	1150	1100	2030	2760	802	428
9	467	659	e540	e960	e980	e1850	1120	1130	1830	4450	773	416
10	466	648	e490	e960	e1040	e1500	1080	1470	1640	5910	736	397
11	479	667	e430	e940	e1040	e1350	1050	1280	1590	2690	719	393
12	514	668	e470	e960	e1040	e1250	1040	1170	4490	2370	718	392
13	547	656	e600	e960	e1040	e1100	1060	1140	3690	1940	705	369
14	615	636	e640	e960	e1040	e1060	1070	1180	2680	1710	704	362
15	580	636	e720	e1000	e1100	e1040	1060	1240	2370	1530	674	396
16	555	636	e700	e940	e1140	e1080	1060	1180	2190	1410	671	445
17	548	648	e720	e920	e1140	e1140	1040	1150	1810	1400	657	556
18	538	646	e740	e900	e1160	e1100	1020	1310	3500	1550	654	585
19	544	642	e720	e920	e1220	e1200	991	1700	3400	1320	627	668
20	546	635	e760	e980	e1400	e1400	1050	1520	2480	1200	617	606
21	540	625	e840	e980	e1750	e1600	1140	1500	2030	1140	588	617
22	533	616	e860	e940	e2250	e1450	1270	4850	2750	1110	567	669
23	528	612	e860	e900	e3100	e1300	1330	17900	2470	1110	551	649
24	527	598	e860	e900	e4100	e1250	1550	16400	1770	1060	544	569
25	523	426	e860	e880	e4500	e1250	1810	7190	1560	958	546	564
26	523	438	e880	e780	e3800	e1200	1900	4410	1410	925	524	606
27	530	493	e800	e490	e2800	e1290	2170	3410	1320	930	512	815
28	543	587	e860	e420	e2500	e1850	1870	2740	1270	894	507	881
29	555	569	e880	e420	e3200	e2150	1590	2430	1230	884	479	719
30	565	538	e840	e620	---	e1800	1430	2820	1170	938	460	650
31	571	---	e720	e680	---	e1650	---	3460	---	961	468	---
TOTAL	16010	18738	22492	24170	47200	57710	39101	92210	66700	58620	21988	15741
MEAN	516	625	726	780	1628	1862	1303	2975	2223	1891	709	525
MAX	615	785	880	1000	4500	5000	2170	17900	4490	5910	1360	881
MIN	450	426	430	400	660	1040	991	1100	1170	884	460	362
AC-FT	31760	37170	44610	47940	93620	114500	77560	182900	132300	116300	43610	31220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2004, BY WATER YEAR (WY)

MEAN	727	760	666	628	1201	2252	2054	2093	2808	1448	947	729
MAX	2780	2792	1803	1650	6439	8082	10450	7565	11950	11470	4755	2705
(WY)	1987	1999	1994	1973	1971	1993	1984	1995	1984	1993	1951	1951
MIN	150	240	150	180	256	489	512	327	405	173	117	87.8
(WY)	1940	1940	1930	1977	1940	1981	1981	1934	1933	1936	1976	1939

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1929 - 2004	
ANNUAL TOTAL	384198		480680			
ANNUAL MEAN	1053		1313		1358	
HIGHEST ANNUAL MEAN					3870	1993
LOWEST ANNUAL MEAN					417	1939
HIGHEST DAILY MEAN	9260	May 5	17900	May 23	93800	Jun 12 1944
LOWEST DAILY MEAN	250	Jan 18	362	Sep 14	64	Sep 16 1939
ANNUAL SEVEN-DAY MINIMUM	294	Sep 3	389	Sep 9	66	Sep 15 1939
MAXIMUM PEAK FLOW			21600	May 23	*100000	Jun 12 1944
MAXIMUM PEAK STAGE			12.04	May 23	**16.60	Jun 12 1944
ANNUAL RUNOFF (AC-FT)	762100		953400		984000	
10 PERCENT EXCEEDS	2030		2500		2720	
50 PERCENT EXCEEDS	759		939		741	
90 PERCENT EXCEEDS	447		479		306	

e Estimated
* From rating extension above 22000 ft^3/s based on velocity-area study
** From floodmark, site and datum then in use

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon-ate, wat flt incrm. titr., field, mg/L (00452)
OCT													
15...	0930	2.72	585	27	737	10.5	8.3	622	8.0	11.2	232	283	.0
NOV													
13...	1000	2.95	664	37	748	14.2	8.2	712	1.0	3.6	261	318	--
DEC													
17...	1000	3.18	796	13	729	13.5	8.0	791	-.2	-.2	302	367	.0
FEB													
11...	1100	4.02	1520	6.6	734	8.2	8.0	645	-6.6	-.2	251	306	--
MAR													
10...	1230	4.38	1530	670	727	10.5	8.3	628	15.5	7.0	218	265	.0
APR													
14...	1000	3.54	1080	41	734	10.9	8.4	640	14.0	11.0	253	286	11
MAY													
14...	1030	3.63	1160	110	737	11.8	9.1	580	16.5	12.5	216	249	7
JUN													
09...	1100	4.33	1850	880	732	7.0	8.5	657	24.7	24.5	249	294	4
JUL													
14...	1000	4.34	2240	700	734	6.7	8.1	610	23.5	26.3	215	256	3
AUG													
11...	0930	2.85	722	84	737	9.1	8.5	557	17.2	19.6	193	219	8

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Chlor-ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Total nitro-gen, wat unf by anal ysis, mg/L (62855)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor-ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)
OCT													
15...	20.7	63.7	<.04	1.88	.012	.397	.66	2.97	3.6	<.1	3.6	3.0	<.006
NOV													
13...	25.0	66.8	.46	3.37	.037	.420	.61	4.90	2.7	<.1	2.7	3.5	--
DEC													
17...	19.4	77.6	.27	4.48	.024	.412	.53	5.02	1.0	<.1	1.0	2.5	<.006
FEB													
11...	17.0	61.1	.29	3.82	.024	.386	.45	4.42	.6	<.1	.6	1.9	<.006
MAR													
10...	12.5	72.9	.65	4.75	.053	.337	1.34	8.10	19.8	<.1	19.7	7.2	--
APR													
14...	13.5	66.9	<.04	3.01	.009	.256	.44	3.85	3.2	<.1	3.2	3.0	<.006
MAY													
14...	13.6	65.8	<.08	1.80	.027	.264	.72	3.74	4.9	<.1	4.8	4.4	<.006
JUN													
09...	11.6	70.9	<.04	4.47	.041	.415	--	7.06	16.9	.1	16.8	8.7	<.006
JUL													
14...	10.4	66.4	E.03	4.02	.039	.434	1.18	6.16	8.5	.2	8.3	4.9	<.006
AUG													
11...	16.6	73.2	<.04	1.35	.024	.141	.52	3.37	10.9	<.1	10.9	3.6	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	CIAT, water, fltrd, ug/L (04040)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673)	Butyl-ate, water, fltrd, ug/L (04028)	Car-baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd 0.7u GF ug/L (82674)	Chlor-pyrifos water, fltrd, ug/L (38933)	cis-Per-methrin water fltrd 0.7u GF ug/L (82687)	Cyana-zine, water, fltrd, ug/L (04041)
OCT													
15...	E.012	.009	<.004	<.005	.069	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018
NOV													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
17...	<.006	.007	<.005	<.005	.031	<.050	<.010	<.004	E.005	<.020	<.005	<.006	<.018
FEB													
11...	E.014	E.006	<.005	<.005	.037	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018
MAR													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
14...	E.012	.201	<.005	<.005	.180	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018
MAY													
14...	E.073	1.07	.025	<.005	2.10	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018
JUN													
09...	E.184	.773	.022	<.005	2.50	<.050	<.010	<.004	<.041	<.020	<.005	<.006	E.013
JUL													
14...	E.053	.073	<.005	<.005	.527	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018
AUG													
11...	E.022	.019	<.005	<.005	.251	<.050	<.010	<.004	<.041	<.020	.006	<.006	<.018

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diazi-non, water, fltrd, ug/L (39572)	Diel-drin, water, fltrd, ug/L (39381)	Disul-foton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal-flur-alin, water, fltrd 0.7u GF ug/L (82663)	Etho-prop, water, fltrd 0.7u GF ug/L (82672)	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169)	Fipro-nil sulfide water, fltrd, ug/L (62167)	Fipro-nil sulfone water, fltrd, ug/L (62168)	Fipro-nil, water, fltrd, ug/L (62166)	Fonofos water, fltrd, ug/L (04095)
OCT													
15...	<.003	<.004	E.004	<.005	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003
NOV													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
17...	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003
FEB													
11...	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003
MAR													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
14...	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003
MAY													
14...	<.003	<.012	.008	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003
JUN													
09...	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	E.003	E.004	E.006	<.003
JUL													
14...	<.003	<.012	<.005	<.010	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003
AUG													
11...	<.003	<.012	<.005	<.009	<.02	<.006	<.009	<.005	<.029	<.013	<.024	<.016	<.003

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Mala-thion, water, fltrd, ug/L (39532)	Methyl para-thion, water, fltrd 0.7u GF ug/L (82667)	Metola-chlor, water, fltrd, ug/L (39415)	Metri-buzin, water, fltrd, ug/L (82630)	Moli-nate, water, fltrd 0.7u GF ug/L (82671)	Naprop-amide, water, fltrd 0.7u GF ug/L (82684)	p,p'-DDE, water, fltrd, ug/L (34653)	Para-thion, water, fltrd, ug/L (39542)	Peb-ulate, water, fltrd 0.7u GF ug/L (82669)	Pendi-meth-alin, water, fltrd 0.7u GF ug/L (82683)	Phorate water fltrd 0.7u GF ug/L (82664)
OCT													
15...	<.004	<.035	<.027	<.006	.029	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011
NOV													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
17...	<.004	<.035	<.027	<.015	E.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
FEB													
11...	<.004	<.035	<.027	<.015	.021	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
MAR													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
14...	<.004	<.035	<.027	<.015	.082	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011
MAY													
14...	<.004	<.035	<.027	<.015	.356	.008	<.003	<.007	<.003	<.010	<.004	<.022	<.011
JUN													
09...	<.004	<.035	<.027	<.015	.562	.007	<.003	<.007	<.003	<.010	<.004	E.016	<.011
JUL													
14...	<.004	<.035	.052	<.015	.136	E.005	<.003	<.007	<.005	<.010	<.004	<.022	<.011
AUG													
11...	<.004	<.035	<.027	<.015	.040	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Prome-ton, water, fltrd, ug/L (04037)	Propy-zamide, water, fltrd 0.7u GF ug/L (82676)	Propa-chlor, water, fltrd, ug/L (04024)	Pro-panil, water, fltrd 0.7u GF ug/L (82679)	Propar-gite, water, fltrd 0.7u GF ug/L (82685)	Sima-zine, water, fltrd, ug/L (04035)	Tebu-thiuron water fltrd 0.7u GF ug/L (82670)	Terba-cil, water, fltrd 0.7u GF ug/L (82665)	Terbu-fos, water, fltrd 0.7u GF ug/L (82675)	Thio-bencarb water fltrd 0.7u GF ug/L (82681)	Tri-allate, water, fltrd 0.7u GF ug/L (82678)	Tri-flur-alin, water, fltrd 0.7u GF ug/L (82661)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)
OCT													
15...	E.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	86
NOV													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
17...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009	64
FEB													
11...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009	98
MAR													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
14...	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009	29
MAY													
14...	.02	<.004	<.025	<.011	<.02	<.013	<.02	<.034	<.02	<.010	<.002	<.009	--
JUN													
09...	.01	<.004	<.025	<.011	<.02	.034	<.02	<.034	<.02	<.010	<.002	<.009	83
JUL													
14...	.02	<.004	<.025	<.011	<.02	.009	<.02	<.034	<.02	<.010	<.002	<.009	--
AUG													
11...	.03	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Suspended sediment concentration mg/L (80154)
OCT	
15...	87
NOV	
13...	286
DEC	
17...	70
FEB	
11...	10
MAR	
10...	1390
APR	
14...	253
MAY	
14...	258
JUN	
09...	941
JUL	
14...	1140
AUG	
11...	--

Remark codes used in this table:
< -- Less than
E -- Estimated value

ECOLOGICAL DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Biomass peri-phyton, ashfree drymass g/m2 (49954)	Peri-phyton biomass ash weight, g/m2 (00572)	Peri-phyton biomass dry weight, g/m2 (00573)	Biomass chloro-phyll ratio, peri-phyton, number (70950)	Pheo-phytin a, peri-phyton, mg/m2 (62359)	Chloro-phyll a peri-phyton, chromo-fluoro, mg/m2 (70957)
AUG										
11...	1200	8.9	570	21.1	19.7	280	301.6	1980	5.1	10.0

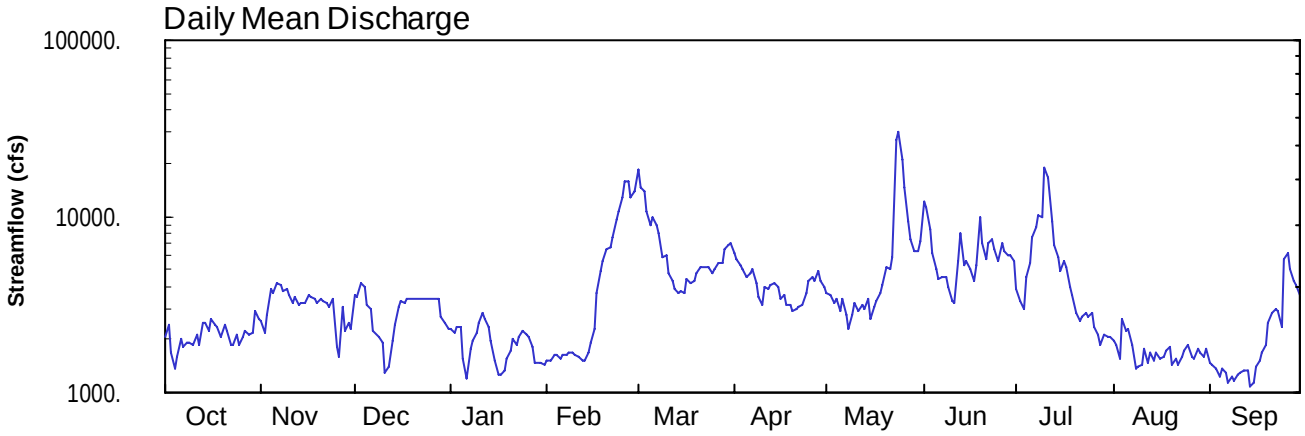
2004 Water Year

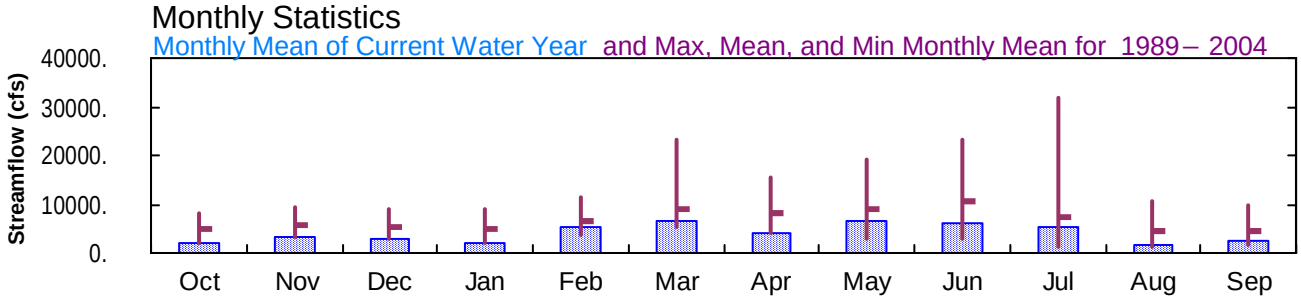
PLATTE RIVER BASIN

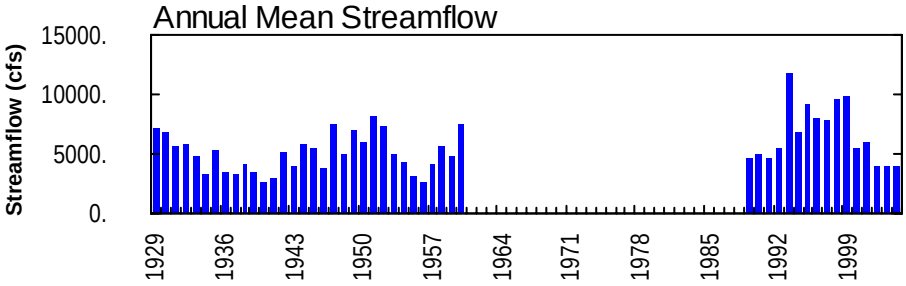
06801000 PLATTE R NR ASHLAND, NE

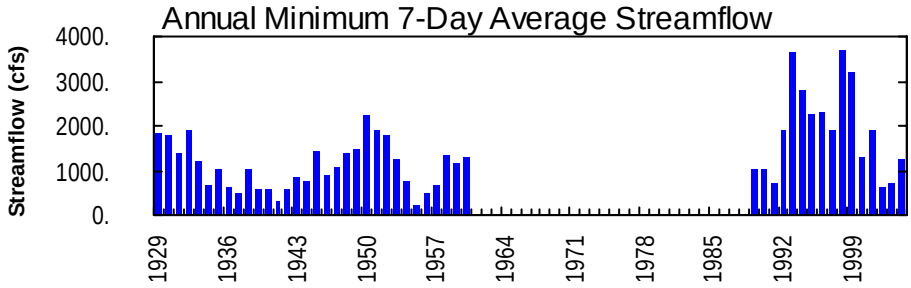
Latitude: 41°03'44" Longitude: 096°19'29" Hydrologic Unit Code: 10200202

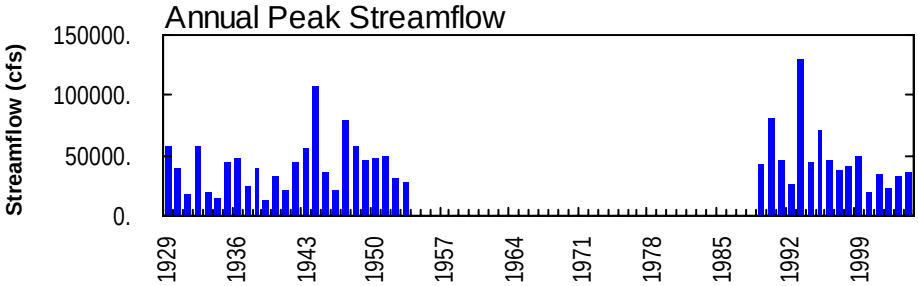
Sarpy County Datum: 1040.00 feet Drainage Area: 84200 mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06801000 PLATTE RIVER NEAR ASHLAND, NE

LOCATION—Lat 41°03'44", long 96°19'28", in SE 1/4 SW 1/4 sec.29, T.13 N., R.10 E., Sarpy County, Hydrologic Unit 10200202, on left bank upstream side and 35 ft northeast of Highway 6 bridge, 3 mi northeast of Ashland, 2 mi upstream from Salt Creek, and at mile 27.9.

DRAINAGE AREA—84,200 mi^2 from state base maps, scale 1:1,000,000.

PERIOD OF RECORD—August 1928 to May 1953, July 1988 to current year.

REVISED RECORDS—WDR NE-94-1: 1993 (M).

GAGE—Water-stage recorder. Datum of gage is 1,040.00 ft above sea level. Prior to Oct. 1, 1929, chain gage at former highway bridge 1/2 mi upstream at datum 15.83 ft higher. Oct. 1, 1929 to Oct. 7, 1933 staff or chain gage at former bridge datum 14.79 ft higher. Oct. 14, 1933 to Dec. 10, 1938 water-stage recorder at site 950 ft upstream from former bridge at datum 14.79 ft higher. Dec. 11, 1938 to June 16, 1948 water-stage recorder at site of former bridge 1/2 mi upstream at datum 14.79 ft higher. June 17, 1948 to May 11, 1953 1/2 mi downstream on Highway 6 bridge at datum 12.51 ft higher. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, 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.

06801000 PLATTE RIVER NEAR ASHLAND, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2080	2540	3540	e2300	e1510	18500	6120	3660	12000	3900	1980	1460
2	2430	2190	3450	e2200	e1530	14500	5770	3570	11300	3300	1850	1430
3	1670	2750	4210	e2350	e1630	14000	5290	3250	8430	3020	1540	1370
4	1360	3820	3960	e2350	e1630	10600	4970	3420	6250	4500	2640	1240
5	1590	3640	3120	e1550	e1560	8800	4470	2930	5020	5400	2230	1360
6	2010	4220	2980	e1200	e1640	9800	4730	3360	4460	7600	2280	1310
7	1840	4040	2220	e1750	e1630	8800	4970	2790	4530	8600	1870	1150
8	1910	3770	e2100	e1950	e1670	8000	4140	2280	4550	10100	1350	1220
9	1930	3840	e2050	e2200	e1680	5800	3480	2730	4010	9800	1420	1160
10	1850	3620	e1900	e2500	e1660	6000	3150	3210	3280	18700	1430	1260
11	2120	3200	e1300	e2800	e1580	4800	3920	2870	3200	16700	1760	1310
12	1850	3530	e1400	e2600	e1530	4300	3900	3150	5610	9360	1480	1330
13	2490	3170	e1950	e2350	e1510	3900	4050	2990	7930	6910	1690	1330
14	2510	3200	e2400	e1950	e1700	3700	4160	3410	5280	5820	1500	1070
15	2260	3240	e3100	e1510	e1900	3750	3930	2640	5530	4850	1670	1150
16	2650	3560	e3300	e1270	e2300	3670	3440	3080	5080	5550	1550	1410
17	2400	3520	e3200	e1280	e3700	4410	3570	3310	4340	5110	1580	1510
18	2350	3420	e3400	e1340	e4900	4150	3160	3630	5290	3990	1720	1680
19	2070	3230	e3400	e1540	e5600	4250	3110	4080	10000	3620	1810	1860
20	2410	3380	e3400	e1730	6450	4800	2940	5200	7040	2860	1450	2490
21	2230	3340	e3400	e2000	6720	5100	2980	5080	5730	2560	1540	2810
22	1860	3230	e3400	e1880	7630	5200	3030	5800	7060	2700	1450	3010
23	1890	3080	e3400	e2080	9550	5100	3120	27100	7490	2800	1600	2890
24	2120	3420	e3400	e2240	10800	5200	3710	30100	6500	2690	1730	2370
25	1860	1800	e3400	e2150	12900	4800	4280	21100	5500	2830	1850	5680
26	2090	1590	e3400	e2050	15800	5000	4570	14400	7040	2330	1590	6150
27	2220	3080	e3400	e1840	15700	5490	4240	9440	6380	2120	1550	5010
28	2100	2240	e3400	e1480	12900	5470	4950	7350	5960	1880	1760	4320
29	2180	2510	e2700	e1460	13700	6510	4320	6380	5990	2130	1700	4100
30	2910	2280	e2500	e1460	---	6900	3970	6380	5530	2050	1610	3570
31	2610	---	e2300	e1430	---	6980	---	7210	---	2080	1750	---
TOTAL	65850	94450	91080	58790	153010	208280	122440	205900	186310	165860	52930	68010
MEAN	2124	3148	2938	1896	5276	6719	4081	6642	6210	5350	1707	2267
MAX	2910	4220	4210	2800	15800	18500	6120	30100	12000	18700	2640	6150
MIN	1360	1590	1300	1200	1510	3670	2940	2280	3200	1880	1350	1070
AC-FT	130600	187300	180700	116600	303500	413100	242900	408400	369500	329000	105000	134900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2004, BY WATER YEAR (WY)

MEAN	5094	5715	5186	4701	6613	9067	8331	8870	10410	7146	4593	4399
MAX	8325	9403	8778	9022	11390	23190	15470	19330	23270	31980	10730	9825
(WY)	1998	1999	1998	1998	1997	1993	1998	1995	1995	1993	1996	1993
MIN	2124	3148	2879	1896	3621	5233	4081	2969	2928	1083	1158	1533
(WY)	2004	2004	1990	2004	2003	1991	2004	1989	1989	2002	2003	1991

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1989 - 2004	
ANNUAL TOTAL	1375612		1472910			
ANNUAL MEAN	3769		4024		*6672	
HIGHEST ANNUAL MEAN					11820	1993
LOWEST ANNUAL MEAN					3992	2003
HIGHEST DAILY MEAN	26400	May 6	30100	May 24	110000	Mar 10 1993
LOWEST DAILY MEAN	381	Sep 1	1070	Sep 14	381	Sep 1 2003
ANNUAL SEVEN-DAY MINIMUM	732	Aug 30	1230	Sep 9	634	Jul 30 2002
MAXIMUM PEAK FLOW			37000	May 24	**130000	Mar 10 1993
MAXIMUM PEAK STAGE			18.33	May 24	***23.05	Feb 20 1997
ANNUAL RUNOFF (AC-FT)	2729000		2922000		4834000	
10 PERCENT EXCEEDS	6080		7100		11000	
50 PERCENT EXCEEDS	3380		3140		5580	
90 PERCENT EXCEEDS	1300		1510		2240	

e Estimated
* Average discharge for water years 1942-52, 5961 ft^3/s
** Estimated, discharge includes overbank flow, stage 19.23 ft; backwater from ice
*** Backwater from ice

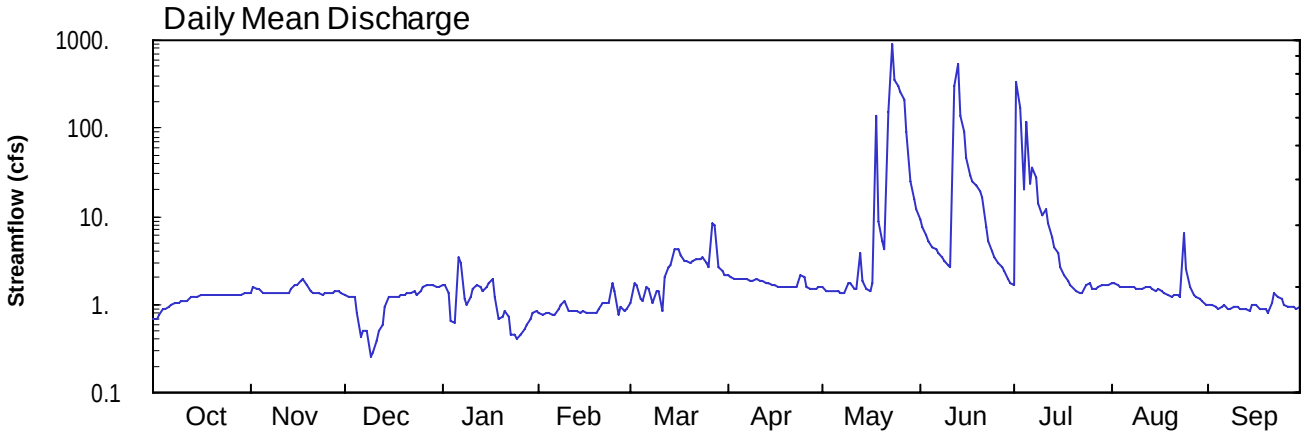
2004 Water Year

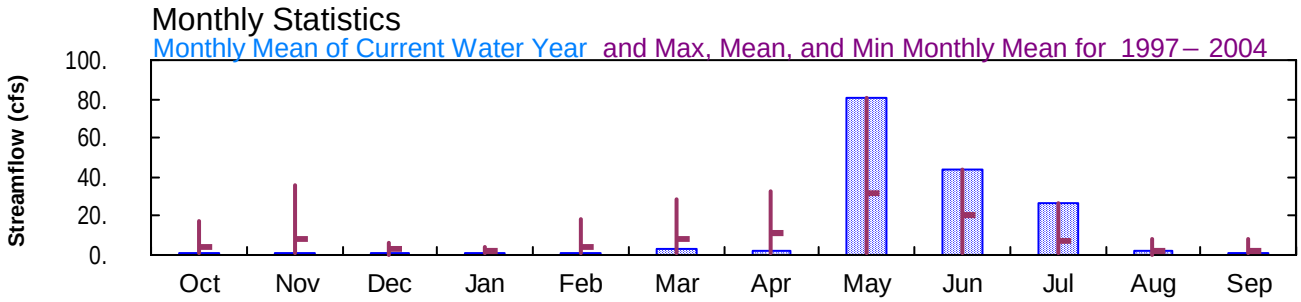
PLATTE RIVER BASIN

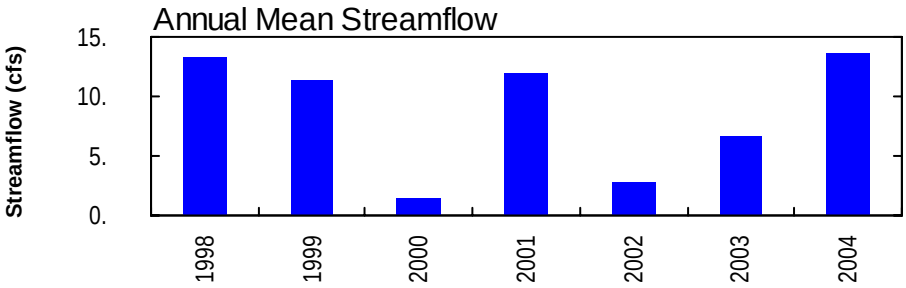
06801180 OLIVE BRANCH NR HALLAM, NE

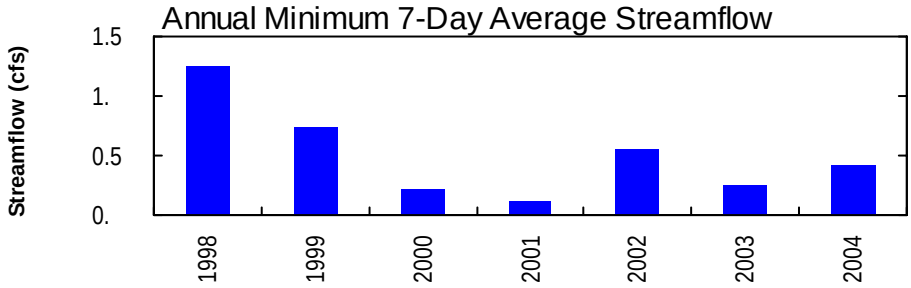
Latitude: 40° 35 ' 44" Longitude: 096° 47 ' 42" Hydrologic Unit Code: 10200203

Lancaster County Datum: 1273.75 feet Drainage Area: 37.8 mi^2









NO PHOTOS AVAILABLE FOR THIS SITE

06801180 OLIVE BRANCH NEAR HALLAM, NE

LOCATION—Lat 40°35'44", long 96°47'42", in NE 1/4 NW 1/4 sec.7, T.7 N., R.6 E., Lancaster County, Hydrologic Unit 10200203, on right bank, 4.75 mi west of U.S. Highway 77 on West Panama Road , south of Lincoln, and at mile 3.5.

DRAINAGE AREA—37.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD—May 1997 to September 2004 (discontinued).

REVISED RECORD.—WRD NE 2001; peak discharge unknown.

GAGE—Water-stage recorder, water temperature, and specific conductance sensors. Datum of gage is 1,273.75 ft above sea level. Datum lowered to 1,271.75 ft above sea level July 24, 2002. Data collection platform at station.

REMARKS—Records poor.

COOPERATION—Station operated in cooperation with the Nebraska Public Power District.

WATER-QUALITY RECORDS

PERIOD OF RECORD—May 1997 to September 2004 (discontinued).

PERIOD OF DAILY RECORD—
SPECIFIC CONDUCTANCE: May 1997 to September 2004.
WATER TEMPERATURES: May 1997 to September 2004.

06801180 OLIVE BRANCH NEAR HALLAM, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.68	1.4	1.3	1.7	0.79	1.0	2.1	1.6	9.1	1.7	1.7	0.96
2	0.69	1.6	1.2	1.7	0.76	1.7	2.0	1.4	7.6	e330	1.8	0.97
3	0.76	1.5	1.2	1.4	0.80	1.7	1.9	1.4	6.0	e170	1.7	0.92
4	0.87	1.5	1.2	e0.66	0.82	1.2	2.0	1.4	5.2	20	1.6	0.89
5	0.88	1.4	0.81	e0.63	0.75	1.1	2.0	1.4	4.5	120	1.6	0.96
6	0.95	1.4	0.43	e3.4	0.74	1.6	1.9	1.4	4.3	23	1.6	0.99
7	0.99	1.4	0.50	e2.9	0.87	1.5	1.9	1.3	3.9	36	1.6	0.91
8	1.0	1.4	0.51	1.2	1.00	1.1	1.8	1.3	3.5	28	1.6	0.90
9	1.0	1.4	0.26	e0.97	1.1	1.5	1.8	1.8	3.1	14	1.5	0.95
10	1.1	1.4	0.29	e1.2	0.85	1.4	1.9	1.7	2.8	10	1.5	0.93
11	1.1	1.4	e0.38	1.5	0.85	e0.85	1.8	1.5	2.7	12	1.5	0.91
12	1.1	1.4	e0.50	1.6	0.84	e2.0	1.8	1.5	e310	8.2	1.5	0.89
13	1.2	1.4	e0.60	1.6	0.83	2.7	1.8	3.9	e530	5.7	1.6	0.89
14	1.2	1.5	0.94	1.4	0.82	2.8	1.7	1.8	137	4.4	1.5	0.85
15	1.2	1.7	1.2	1.5	0.83	4.2	1.7	1.5	91	3.9	1.4	0.97
16	1.3	1.7	1.2	1.7	0.82	4.3	1.7	1.4	46	2.7	1.5	1.0
17	1.3	1.9	1.2	1.9	0.82	3.6	1.6	1.8	28	2.2	1.4	0.87
18	1.3	1.9	1.2	1.2	0.79	3.2	1.6	142	25	1.8	1.4	0.88
19	1.3	1.6	1.3	0.67	0.82	3.1	1.5	8.6	22	1.7	1.3	0.90
20	1.3	1.4	1.3	0.70	0.89	3.0	1.6	5.2	19	1.5	1.2	0.82
21	1.3	1.4	1.4	0.84	1.0	3.1	1.5	4.3	16	1.4	1.3	1.0
22	1.3	1.4	1.4	0.72	1.0	3.3	1.5	e150	7.4	1.4	1.3	1.4
23	1.3	1.3	1.4	0.46	1.1	3.3	1.6	e900	5.2	1.4	1.2	1.2
24	1.3	1.3	1.3	0.45	1.7	3.4	2.2	353	4.0	1.7	6.5	1.1
25	1.3	1.3	1.4	0.42	1.4	3.0	2.1	298	3.4	1.8	2.5	0.96
26	1.3	1.4	1.6	e0.45	0.77	2.6	1.6	262	2.9	1.5	1.6	0.95
27	1.3	1.4	1.7	e0.54	0.92	8.3	1.5	207	2.6	1.5	1.3	0.95
28	1.3	1.4	1.7	e0.60	0.84	8.1	1.5	92	2.4	1.6	1.2	0.94
29	1.3	1.4	1.6	e0.70	0.89	2.7	1.5	25	1.9	1.7	1.2	0.91
30	1.4	1.3	1.6	e0.82	---	2.4	1.6	16	1.8	1.7	1.1	0.95
31	1.4	---	1.6	0.83	---	2.2	---	12	---	1.7	0.99	---
TOTAL	35.72	43.9	34.22	36.36	26.41	85.95	52.7	2503.2	1308.3	814.2	50.69	28.72
MEAN	1.15	1.46	1.10	1.17	0.91	2.77	1.76	80.7	43.6	26.3	1.64	0.96
MAX	1.4	1.9	1.7	3.4	1.7	8.3	2.2	900	530	330	6.5	1.4
MIN	0.68	1.3	0.26	0.42	0.74	0.85	1.5	1.3	1.8	1.4	0.99	0.82
AC-FT	71	87	68	72	52	170	105	4970	2600	1610	101	57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)

MEAN	4.36	7.87	2.66	2.06	4.22	8.07	10.7	31.3	20.5	7.25	2.03	2.10
MAX	17.2	35.6	6.37	4.21	18.1	28.6	33.1	80.7	43.6	26.3	7.73	8.21
(WY)	1999	1999	1999	1998	1998	1998	1999	2004	2004	2004	1998	1998
MIN	0.98	0.96	0.43	0.96	0.91	0.74	1.25	1.03	1.53	1.27	0.50	0.66
(WY)	2000	2001	2001	2000	2004	2000	2000	2000	2002	2002	2003	2003

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004	
ANNUAL TOTAL	2293.05		5020.37			
ANNUAL MEAN	6.28		13.7		9.97	
HIGHEST ANNUAL MEAN					13.7	2004
LOWEST ANNUAL MEAN					2.83	2002
HIGHEST DAILY MEAN	370	Jun 12	900	May 23	900	May 23 2004
LOWEST DAILY MEAN	0.18	Aug 25	0.26	Dec 9	0.06	Jun 22 2000
ANNUAL SEVEN-DAY MINIMUM	0.25	Sep 1	0.41	Dec 6	0.12	Dec 11 2000
MAXIMUM PEAK FLOW			unknown	May 23	unknown	May 23 2004
MAXIMUM PEAK STAGE			17.84	May 23	17.84	May 23 2004
ANNUAL RUNOFF (AC-FT)	4550		9960		7220	
10 PERCENT EXCEEDS	2.7		7.8		14	
50 PERCENT EXCEEDS	1.4		1.4		2.0	
90 PERCENT EXCEEDS	0.48		0.82		0.80	

e Estimated

06801180 OLIVE BRANCH NEAR HALLAM, NE—Continued

Specific conductance, water, unfiltered, microsiemens per centimeter at 25 degrees Celsius
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1590	4590	4260	4240	823	614	743	718	456	707	747	732
2	1670	4310	4220	4320	823	619	735	719	480	567	752	---
3	3570	4150	3600	4050	818	674	722	718	511	323	760	---
4	3930	2970	2240	3310	802	692	714	717	540	297	759	744
5	4110	3790	793	2640	790	281	704	719	566	262	756	738
6	4170	3960	790	1490	791	497	690	727	592	349	752	731
7	4140	4030	783	924	793	645	685	738	619	405	749	745
8	4180	3960	771	830	790	714	688	744	636	438	752	745
9	4240	4050	769	828	788	748	702	702	651	469	749	741
10	4200	4070	787	859	786	765	711	708	672	526	747	747
11	4230	4060	801	850	783	771	705	726	695	584	742	752
12	4300	3990	821	830	793	784	704	743	577	664	741	755
13	4530	3960	813	811	794	794	697	595	294	729	738	755
14	4450	3990	800	786	794	790	686	577	270	741	737	764
15	4420	4020	821	2420	807	767	676	691	252	670	743	741
16	4550	4030	829	4730	802	738	671	732	275	625	743	733
17	4550	4020	973	1680	798	766	676	719	298	670	740	756
18	4640	4010	2800	772	1580	761	687	312	306	667	743	754
19	4650	3960	1090	778	1390	749	694	513	305	667	742	747
20	4610	3930	2810	789	701	740	692	682	303	683	742	760
21	4570	3770	4210	793	516	735	696	742	312	704	739	728
22	4550	3790	3040	813	460	731	707	687	389	716	741	690
23	4550	3760	983	820	480	727	708	234	453	731	748	701
24	4500	3570	2100	784	586	710	689	301	506	728	544	692
25	4390	3590	3930	786	670	705	661	297	549	733	414	716
26	4490	3980	4200	781	716	704	701	299	588	745	539	725
27	4610	4100	4340	795	726	618	703	299	624	745	636	732
28	4600	4170	4360	815	715	421	700	306	653	747	679	741
29	4600	4190	4410	824	687	624	719	356	675	738	701	749
30	4640	4260	4400	828	---	708	721	396	694	733	712	747
31	4600	---	4280	829	---	741	---	428	---	740	722	---
MEAN	4220	3970	2320	1510	786	688	700	576	491	616	713	---
MAX	4650	4590	4410	4730	1580	794	743	744	695	747	760	--
MIN	1590	2970	769	772	460	281	661	234	252	262	414	--

06801180 OLIVE BRANCH NEAR HALLAM, NE—Continued

Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.0	11.2	11.2	10.5	6.2	5.8	6.0	5.3	3.8	2.3	6.8	4.7
2	13.3	10.3	10.5	8.9	6.5	6.0	5.9	5.5	3.9	1.9	7.1	4.9
3	13.6	13.1	10.1	9.0	6.8	6.4	5.9	4.8	4.6	1.6	6.4	5.0
4	13.7	13.3	9.4	7.9	6.8	5.8	5.0	4.1	4.7	2.2	6.2	4.5
5	14.1	13.6	9.4	8.2	5.8	3.7	4.5	3.6	4.7	2.6	4.5	2.3
6	14.5	14.1	8.4	8.1	5.1	3.9	3.8	2.6	3.7	1.8	9.0	3.1
7	14.8	14.4	8.1	7.9	7.0	4.0	4.1	2.5	4.0	1.4	10.0	5.2
8	15.1	14.7	8.1	7.6	6.9	4.1	4.8	3.1	3.5	1.7	10.8	4.9
9	15.6	15.1	7.6	7.1	5.6	1.2	4.7	2.7	5.1	2.4	12.1	5.9
10	15.9	15.5	7.1	6.8	3.4	1.3	5.0	2.4	5.4	2.5	10.5	6.2
11	16.1	15.8	7.3	6.8	4.4	2.8	5.8	3.4	5.1	2.2	10.2	4.7
12	16.0	15.0	7.9	7.3	4.3	2.0	5.5	2.6	4.3	1.6	10.9	3.4
13	15.6	14.8	8.3	7.9	5.1	3.6	5.6	2.7	4.7	1.8	10.6	6.4
14	14.9	14.2	8.2	7.3	4.8	3.2	6.0	3.0	4.7	2.0	12.1	5.9
15	14.5	13.6	7.4	7.1	5.0	3.0	4.6	2.4	4.7	1.9	9.2	5.4
16	13.9	13.2	7.7	7.3	4.6	2.5	5.2	4.6	5.8	2.2	6.9	5.0
17	13.2	12.4	8.0	7.6	5.5	2.8	5.1	3.2	6.5	2.3	12.7	5.2
18	12.4	11.6	8.8	8.0	5.2	4.1	3.2	2.1	5.8	3.1	14.2	8.3
19	12.1	11.6	9.3	8.7	4.9	2.9	4.8	2.0	6.7	3.0	15.9	7.0
20	12.6	12.1	9.5	9.3	4.9	3.2	4.8	3.4	5.3	1.4	14.8	9.0
21	13.2	12.6	9.5	8.5	5.5	4.7	6.6	2.9	3.3	0.9	12.2	5.9
22	13.6	13.1	9.2	8.8	5.8	4.8	4.1	2.3	4.3	1.4	12.7	6.0
23	14.0	13.5	9.1	8.1	4.8	3.1	7.3	2.6	3.8	1.1	12.7	8.0
24	14.0	13.9	8.2	7.2	5.1	3.0	4.8	2.9	3.8	2.2	16.6	11.1
25	14.0	13.3	7.3	5.1	5.4	4.8	3.6	2.0	5.2	2.8	17.7	14.3
26	13.6	12.6	5.1	4.6	5.7	5.3	2.8	0.9	7.7	2.2	19.3	14.5
27	12.6	11.9	5.5	4.8	6.1	5.5	3.1	0.9	8.5	2.7	16.9	13.5
28	11.9	11.5	5.6	5.1	6.1	5.3	3.2	1.5	8.1	4.2	14.8	11.2
29	11.8	11.3	5.7	5.5	5.7	5.5	3.4	1.7	7.3	5.9	14.2	10.0
30	11.6	11.3	6.1	5.5	5.6	5.2	3.9	1.7	---	---	12.6	8.3
31	11.5	11.2	---	---	5.8	5.0	4.4	2.2	---	---	14.6	6.8
MONTH	16.1	10.3	11.2	4.6	7.0	1.2	7.3	0.9	8.5	0.9	19.3	2.3

06801180 OLIVE BRANCH NEAR HALLAM, NE—Continued

Temperature, water, degrees Celsius
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	7.7	17.2	9.7	20.1	16.4	23.6	18.9	28.7	21.4	24.9	17.8
2	16.5	8.1	15.4	9.9	20.4	16.6	21.9	19.9	26.3	22.4	---	---
3	15.4	8.6	17.7	8.6	21.1	16.7	23.3	21.1	29.4	22.4	24.0	17.9
4	16.5	7.5	21.1	12.3	23.0	17.5	22.8	21.9	24.2	21.2	24.3	18.2
5	16.1	9.1	23.1	13.2	21.7	18.4	22.7	20.4	25.2	19.7	22.9	18.8
6	17.9	10.9	25.6	16.6	21.9	18.6	21.4	20.9	24.1	19.2	22.7	16.7
7	19.5	12.0	22.7	16.1	26.1	19.7	20.9	20.0	25.3	18.2	22.3	15.6
8	18.0	9.8	25.8	17.4	25.7	20.9	20.4	19.8	25.3	19.7	22.0	15.5
9	13.5	10.9	25.2	17.9	24.1	20.8	21.7	20.4	25.3	19.0	22.3	15.8
10	13.4	9.0	23.9	17.6	24.8	20.4	22.4	21.5	22.0	18.0	22.5	15.8
11	13.5	6.4	22.5	17.9	27.1	21.2	23.1	22.1	20.7	16.4	22.9	16.8
12	11.3	7.2	19.6	15.4	22.1	15.2	24.2	22.7	21.4	16.0	24.0	17.3
13	16.3	7.1	15.4	10.5	22.6	15.9	25.1	23.6	19.7	16.5	24.5	17.9
14	17.7	8.4	17.7	9.4	22.9	20.9	24.7	23.3	22.3	15.0	23.4	18.6
15	20.6	11.5	17.8	10.4	22.7	19.9	25.7	22.2	21.4	16.8	22.8	18.1
16	22.6	12.4	19.7	13.0	22.6	21.1	27.0	23.6	23.8	17.0	21.9	15.6
17	23.5	13.4	18.7	15.4	22.1	20.3	25.9	22.5	25.0	18.3	21.7	15.9
18	20.4	16.7	16.9	15.4	22.2	18.9	25.8	21.1	24.7	19.1	23.5	17.1
19	20.2	13.3	19.3	16.6	19.5	18.0	28.6	1.4	20.4	17.3	24.3	19.1
20	20.6	14.1	20.0	17.5	19.3	18.3	29.6	23.1	23.2	16.5	21.9	17.0
21	19.6	12.4	23.8	18.0	20.7	18.8	27.6	23.1	23.6	16.0	18.7	17.3
22	15.5	13.2	23.5	17.4	22.2	18.5	24.9	22.7	25.6	17.5	22.9	18.1
23	17.3	12.1	20.4	17.2	23.5	18.4	22.7	20.0	23.8	19.3	21.3	17.3
24	14.2	12.0	20.4	18.9	20.4	16.9	20.0	18.5	24.0	20.2	21.3	15.2
25	18.8	10.9	19.2	18.1	21.3	15.2	23.3	17.3	25.2	20.9	20.9	14.9
26	18.9	11.0	21.0	18.4	18.5	16.2	23.4	16.9	26.8	19.6	21.0	14.8
27	20.4	10.5	20.9	19.8	20.4	16.5	24.5	17.5	25.0	20.2	20.8	15.6
28	22.1	13.8	22.1	20.0	22.0	17.0	22.4	18.3	21.6	18.3	19.4	15.3
29	16.4	12.3	22.8	20.8	23.5	16.1	23.6	19.5	23.4	16.1	18.3	12.5
30	12.3	10.7	21.0	18.6	24.4	17.3	25.5	19.0	24.5	17.5	19.3	13.8
31	---	---	20.1	16.6	---	---	26.8	19.1	24.4	18.1	---	---
MONTH	23.5	6.4	25.8	8.6	27.1	15.2	29.6	1.4	29.4	15.0	---	---

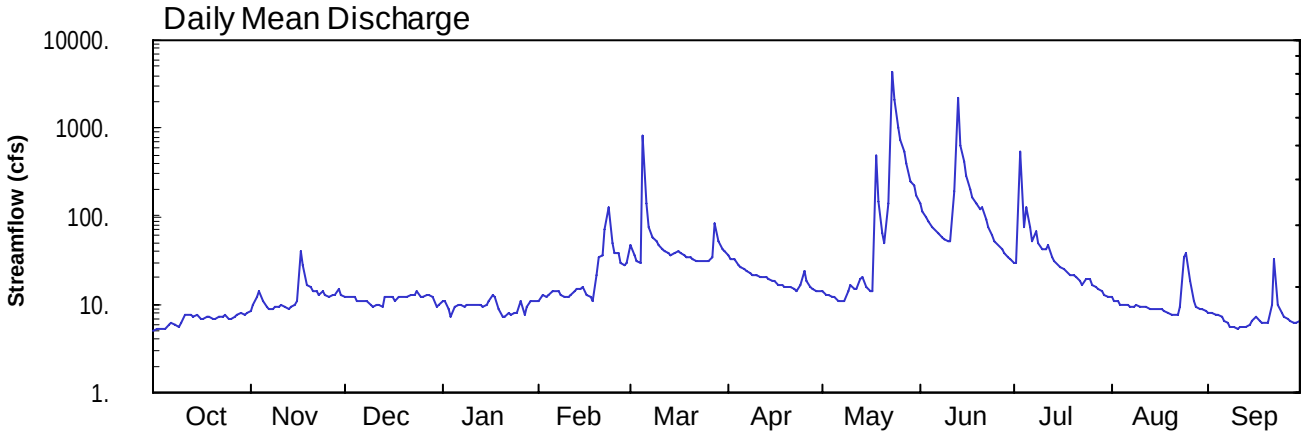
2004 Water Year

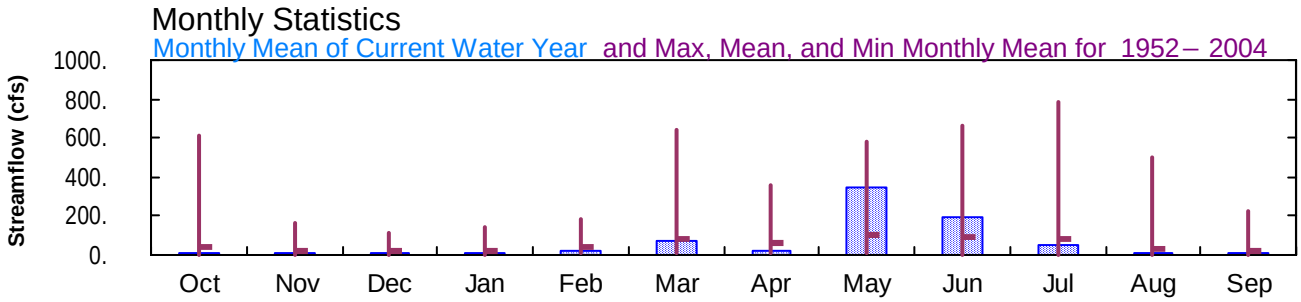
PLATTE RIVER BASIN

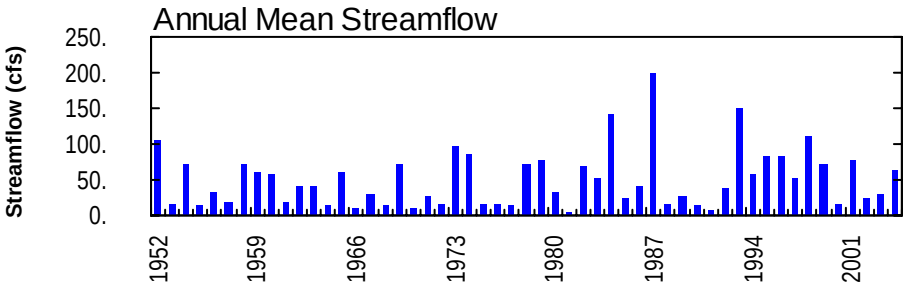
06803000 SALT CREEK AT ROCA, NEBR.

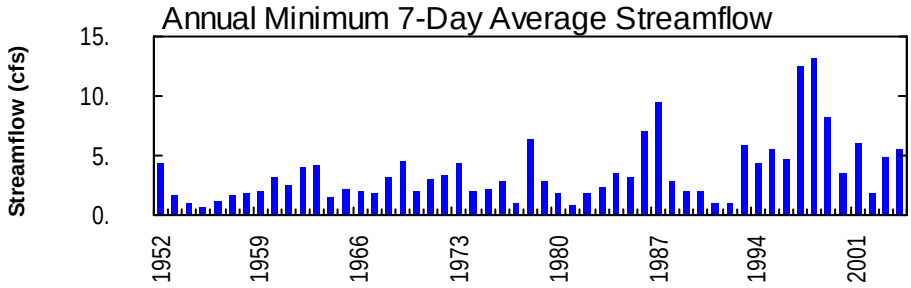
Latitude: 40° 39 ' 27" Longitude: 096° 39 ' 56" Hydrologic Unit Code: 10200203

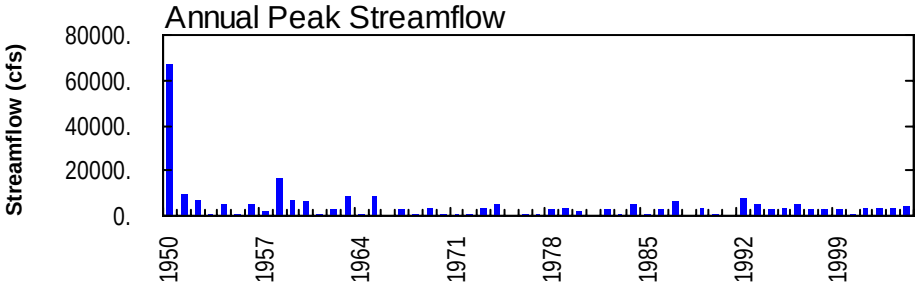
Lancaster County Datum: 1192.50 feet Drainage Area: 167. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06803000 SALT CREEK AT ROCA, NE

LOCATION—Lat 40°39'29", long 96°39'55", in NW 1/4 SW 1/4 sec.17, T.8 N., R.7 E., Lancaster County, Hydrologic Unit 10200203, on left bank 15 ft upstream from highway bridge at west edge of Roca, and at mile 54.2. Mar. 18, 2002, to Sept. 30, 2002, at location 0.25 mile west and 0.25 mile south at mile 53.5.

DRAINAGE AREA—167 mi^2.

PERIOD OF RECORD—May 1951 to current year.

REVISED RECORDS—WDR NE-71: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,192.50 ft above sea level, Kansas City supplementary adjustment of 1943. Prior to May 16, 1956, nonrecording gage at present site and datum. Data collection platform at station.

REMARKS—Records fair, except for estimated daily discharges, which are poor. Flood flow affected by several detention dams.

06803000 SALT CREEK AT ROCA, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	8.3	12	e11	e11	48	36	14	140	29	12	8.2
2	5.3	9.7	12	e11	e13	37	33	13	115	29	11	8.1
3	5.4	12	12	e8.7	e12	31	32	13	99	529	11	7.6
4	5.3	14	12	e7.1	e13	30	28	12	86	74	10	7.5
5	5.4	11	11	e9.4	e14	802	27	12	75	124	10	7.2
6	6.0	9.6	11	e10	e14	141	25	11	68	75	10	6.6
7	6.1	9.1	11	e10	e14	76	24	11	65	53	9.4	6.2
8	5.9	9.1	11	e9.3	e13	59	23	11	59	69	9.5	5.6
9	5.6	9.2	e10	e9.9	e12	52	22	14	56	49	9.8	5.7
10	6.2	9.5	e9.3	e9.7	e12	48	22	17	53	42	9.4	5.4
11	7.6	10	e10	e10	e13	43	20	15	51	42	9.4	5.5
12	7.8	9.4	e10	e10	e14	41	20	15	196	47	9.4	5.5
13	7.5	9.1	e9.5	e9.7	e15	39	20	19	2220	35	9.1	5.5
14	7.4	9.4	12	e9.6	e15	37	19	20	642	31	9.0	6.0
15	7.6	10	12	e10	e16	38	18	16	410	28	8.8	6.4
16	6.8	11	12	e11	e13	40	18	14	294	26	9.0	7.3
17	6.8	40	11	e13	e12	38	17	14	199	25	8.7	6.5
18	7.2	28	12	e12	e11	36	17	497	161	23	8.5	6.2
19	7.3	17	12	e8.9	e21	35	16	148	139	22	8.0	6.3
20	6.8	16	12	e7.3	e34	34	16	64	119	21	7.8	6.2
21	6.7	14	12	e7.3	e36	32	16	49	125	20	7.8	10
22	7.1	14	13	e8.0	e73	31	15	142	94	18	7.6	33
23	7.2	13	13	e7.7	124	31	14	4240	75	17	9.4	9.8
24	7.7	14	14	e8.2	50	31	17	2060	61	19	35	8.0
25	6.9	13	12	e8.0	38	31	24	1030	52	19	38	7.1
26	7.0	12	12	e11	39	31	18	735	46	17	18	6.7
27	7.2	13	13	e7.7	29	35	16	542	43	16	11	6.5
28	7.7	13	13	e9.4	28	83	15	398	39	15	9.2	6.3
29	7.9	15	12	e11	30	52	14	251	35	14	8.8	6.3
30	7.5	13	e9.2	e11	---	43	14	229	32	13	8.7	6.4
31	8.0	---	e10	e11	---	40	---	174	---	12	8.5	---
TOTAL	209.9	395.4	357.0	297.9	739	2145	616	10800	5849	1553	351.8	229.6
MEAN	6.77	13.2	11.5	9.61	25.5	69.2	20.5	348	195	50.1	11.3	7.65
MAX	8.0	40	14	13	124	802	36	4240	2220	529	38	33
MIN	5.0	8.3	9.2	7.1	11	30	14	11	32	12	7.6	5.4
AC-FT	416	784	708	591	1470	4250	1220	21420	11600	3080	698	455

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2004, BY WATER YEAR (WY)

MEAN	38.7	20.6	16.2	18.4	36.7	83.9	66.2	104	95.0	77.2	29.9	22.3
MAX	617	167	108	140	180	641	356	587	666	789	496	220
(WY)	1974	1999	1987	1973	1958	1979	1987	1995	1984	1993	1954	1989
MIN	1.36	3.11	3.19	3.25	5.37	5.59	5.23	5.23	2.98	2.19	1.18	1.66
(WY)	1956	1956	1965	1954	1956	1956	1956	1955	1981	1955	1955	1991

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1952 - 2004	
ANNUAL TOTAL	11165.5		23543.6			
ANNUAL MEAN	30.6		64.3		50.8	
HIGHEST ANNUAL MEAN					200	1987
LOWEST ANNUAL MEAN					6.15	1981
HIGHEST DAILY MEAN	1800	Jun 10	4240	May 23	6070	Jul 14 1952
LOWEST DAILY MEAN	4.5	Aug 6	5.0	Oct 1	0.20	Jul 23 1955
ANNUAL SEVEN-DAY MINIMUM	4.8	Sep 25	5.5	Oct 1	0.61	Sep 6 1955
MAXIMUM PEAK FLOW			4670	May 23	16700	Jul 10 1958
MAXIMUM PEAK STAGE			20.34	May 23	22.70	Jul 10 1958
ANNUAL RUNOFF (AC-FT)	22150		46700		36820	
10 PERCENT EXCEEDS	33		75		77	
50 PERCENT EXCEEDS	12		13		11	
90 PERCENT EXCEEDS	5.2		7.1		4.1	

e Estimated

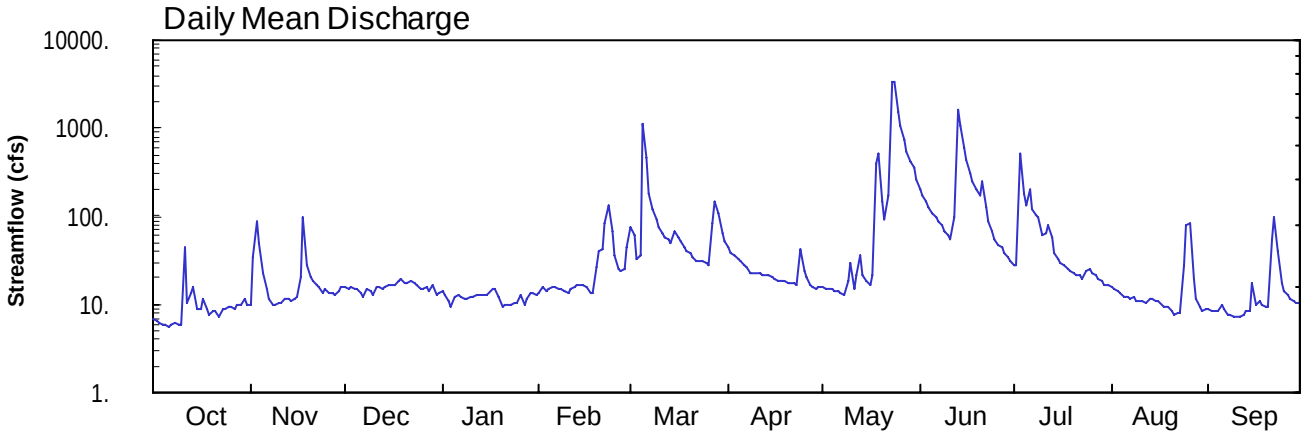
2004 Water Year

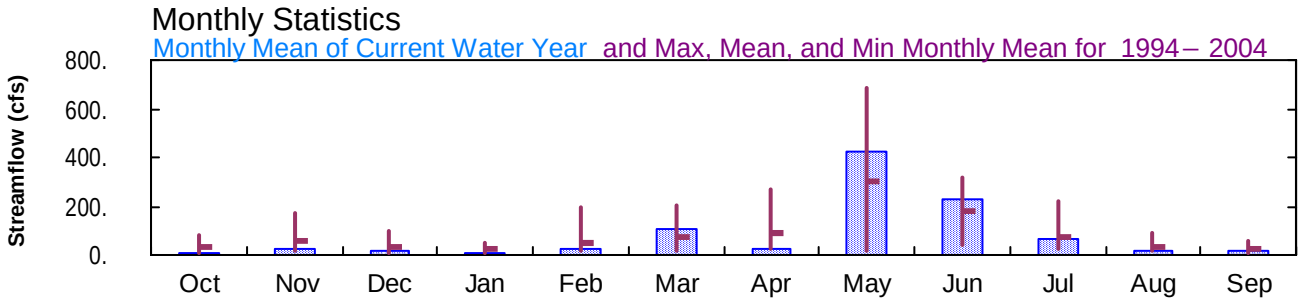
PLATTE RIVER BASIN

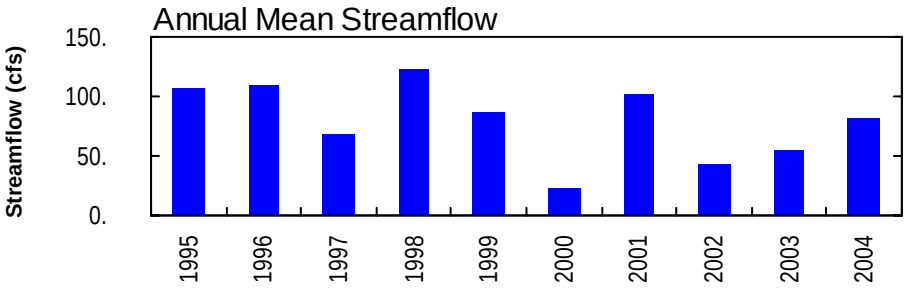
06803080 SALT CREEK AT PIONEERS BLVD AT LINCOLN, NE

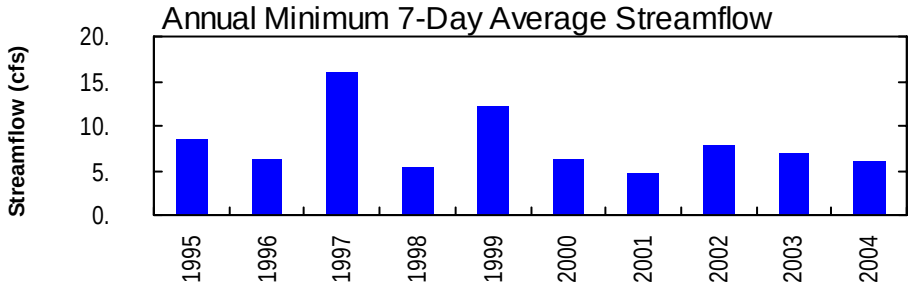
Latitude: 40° 46 ' 13" Longitude: 096° 43 ' 07" Hydrologic Unit Code: 10200203

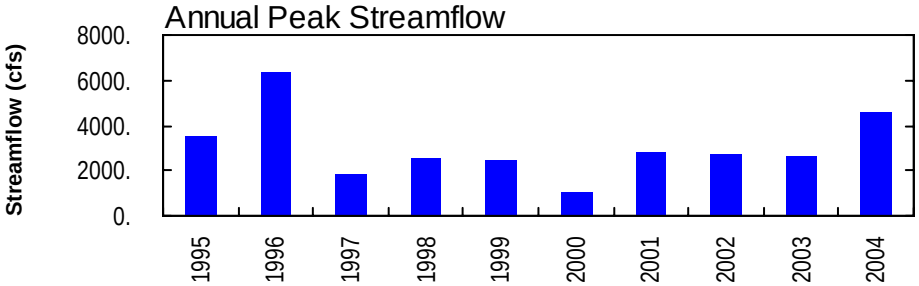
Lancaster County Datum: 1140 feet Drainage Area: 220. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06803080 SALT CREEK AT PIONEERS BOULEVARD AT LINCOLN, NE

LOCATION—Lat 40°46'13", long 96°43'05", in SW 1/4 SW 1/4, sec.2, T.9 N., R.6 E., Lancaster County, Hydrologic Unit 10200203, on left bank downstream from bridge.

DRAINAGE AREA—220 mi^2.

PERIOD OF RECORD—August 1994 to current year. Published as “above Beal Slough”, August-September 1994.

GAGE—Water-stage recorder. Elevation of gage is 1,140 ft above sea level. Data collection platform at station.

REMARKS—Record fair except for estimated daily discharges, which are poor.

06803080 SALT CREEK AT PIONEERS BOULEVARD AT LINCOLN, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	10	16	14	e13	74	44	16	201	28	16	8.8
2	6.4	35	15	13	e16	59	39	15	171	28	15	8.3
3	6.2	90	16	11	e14	32	36	15	147	504	14	8.2
4	6.0	49	15	9.4	e15	37	33	15	126	186	13	8.4
5	5.9	23	15	12	e16	1120	31	14	108	132	12	10
6	5.7	15	14	13	e16	460	28	14	95	201	12	8.9
7	6.0	11	12	12	e15	179	26	13	87	121	11	7.5
8	6.1	10	15	11	e15	120	23	13	80	103	12	7.4
9	5.9	10	14	12	e14	93	22	18	67	96	11	7.2
10	5.9	10	13	12	e14	76	23	30	61	61	11	7.3
11	44	11	16	12	e15	65	22	15	56	63	11	7.1
12	10	12	16	13	e16	58	22	22	96	80	11	7.7
13	14	11	15	13	e16	54	22	37	1650	58	12	8.7
14	16	11	16	13	e16	50	21	21	1080	39	12	8.4
15	9.1	12	16	13	e17	67	21	18	593	33	11	17
16	8.7	12	17	13	e15	57	19	17	443	30	11	10
17	11	20	17	15	e14	52	19	21	310	28	9.8	11
18	8.7	100	18	15	e14	45	18	402	249	26	9.1	9.9
19	7.6	29	19	12	26	40	18	511	203	24	9.3	9.3
20	8.3	20	18	9.5	40	37	17	150	174	23	8.3	9.2
21	8.4	18	18	9.9	42	34	18	94	244	22	7.7	55
22	7.3	17	18	10	81	32	17	176	129	21	7.8	95
23	8.9	16	17	9.7	136	31	16	3320	87	20	8.2	41
24	9.0	13	17	10	69	31	43	3320	67	24	28	17
25	9.1	15	15	10	36	30	24	1500	55	25	78	14
26	9.2	14	15	e13	25	28	20	1080	48	23	82	13
27	8.8	13	16	e9.9	24	82	17	757	44	21	19	11
28	9.8	13	14	e12	25	151	16	553	39	19	11	11
29	9.8	14	16	e13	44	106	15	425	35	18	9.3	10
30	12	16	12	e13	---	63	16	352	31	17	8.5	10
31	10	---	14	e13	---	51	---	258	---	17	8.7	---
TOTAL	300.6	650	485	371.4	819	3414	706	13212	6776	2091	499.7	457.3
MEAN	9.70	21.7	15.6	12.0	28.2	110	23.5	426	226	67.5	16.1	15.2
MAX	44	100	19	15	136	1120	44	3320	1650	504	82	95
MIN	5.7	10	12	9.4	13	28	15	13	31	17	7.7	7.1
AC-FT	596	1290	962	737	1620	6770	1400	26210	13440	4150	991	907

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)

MEAN	30.9	54.6	30.4	25.0	47.4	72.4	89.4	304	178	70.9	33.4	25.9
MAX	83.8	172	97.1	49.5	194	202	272	689	321	220	90.6	55.8
(WY)	1999	1999	1998	1995	1998	1998	1998	1995	2003	1996	1996	1996
MIN	9.70	13.6	9.15	12.0	16.5	16.2	21.4	17.1	38.6	23.1	13.6	9.12
(WY)	2004	2001	2001	2004	1996	1996	2003	2000	2002	2003	2001	2000

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1994 - 2004	
ANNUAL TOTAL	18418.3		29782.0			
ANNUAL MEAN	50.5		81.4		80.2	
HIGHEST ANNUAL MEAN					124	1998
LOWEST ANNUAL MEAN					23.5	2000
HIGHEST DAILY MEAN	2120	Jun 10	3320	May 23	3380	May 9 1996
LOWEST DAILY MEAN	5.7	Oct 6	5.7	Oct 6	3.6	Sep 13 2001
ANNUAL SEVEN-DAY MINIMUM	5.9	Oct 4	5.9	Oct 4	4.8	Aug 31 2001
MAXIMUM PEAK FLOW			4530	May 24	6360	Jul 20 1996
MAXIMUM PEAK STAGE			19.70	May 24	22.92	Jul 20 1996
ANNUAL RUNOFF (AC-FT)	36530		59070		58110	
10 PERCENT EXCEEDS	64		122		148	
50 PERCENT EXCEEDS	18		16		25	
90 PERCENT EXCEEDS	8.9		8.9		11	

e Estimated

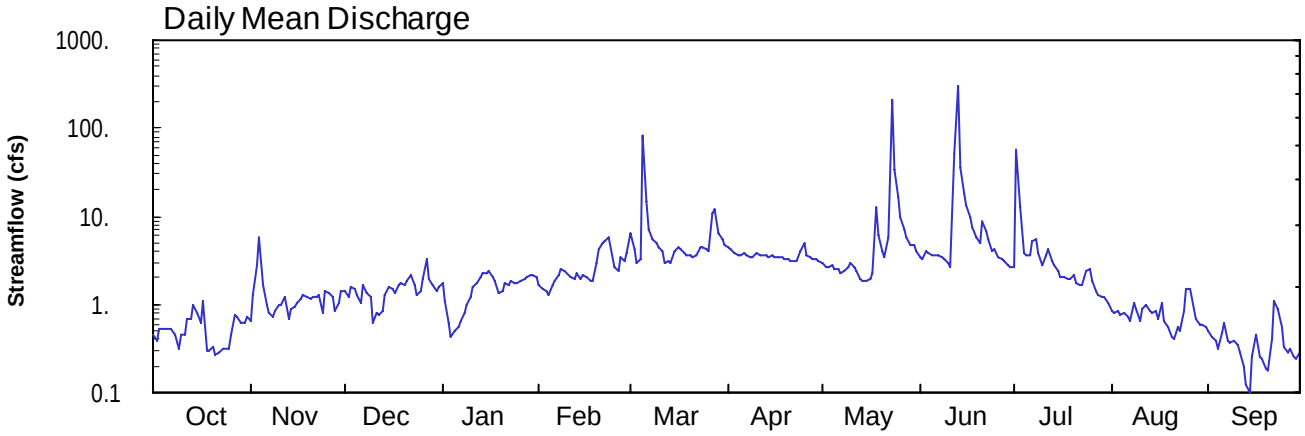
2004 Water Year

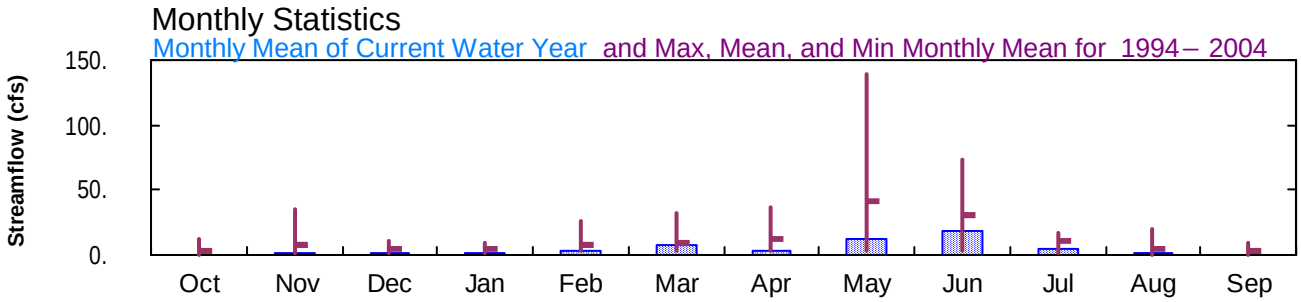
PLATTE RIVER BASIN

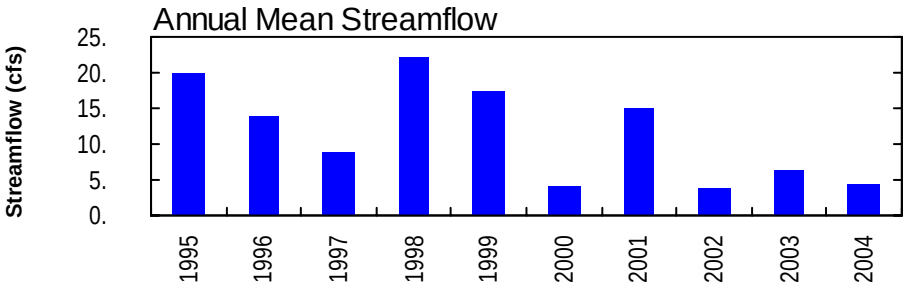
06803093 HAINES BRANCH AT SW 56th ST. AT LINCOLN, NE

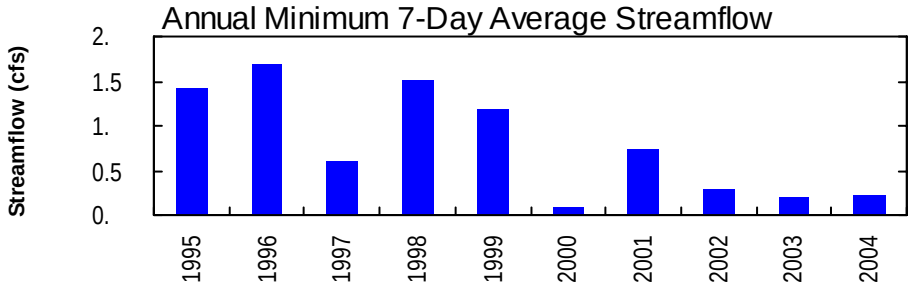
Latitude: 40° 45 ' 59" Longitude: 096° 47 ' 48" Hydrologic Unit Code: 10200203

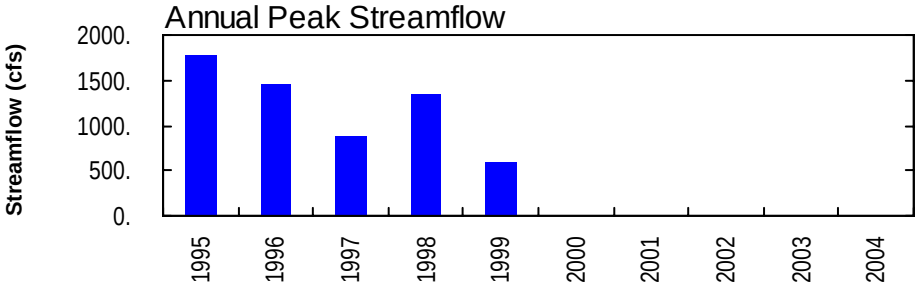
Lancaster County Datum: 1170 feet Drainage Area: 60. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06803093 HAINES BRANCH AT SW 56th ST. AT LINCOLN, NE

LOCATION—Lat 40°45'59", long 96°47'48", in SE 1/4 NE 1/4, sec.12, T.9 N., R.5 E., Lancaster County, Hydrologic Unit 10200203, on right upstream bank.

DRAINAGE AREA—60 mi^2.

PERIOD OF RECORD—October 1994 to current year.

GAGE—Water-stage recorder. Elevation of gage is 1,170 ft above sea level. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

06803093 HAINES BRANCH AT SW 56th ST. AT LINCOLN, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.45	0.64	1.5	1.8	e1.7	6.3	4.4	2.9	3.4	2.7	0.83	0.51
2	0.38	1.3	1.2	e1.1	e1.5	4.2	4.2	2.7	3.2	57	0.80	0.44
3	0.53	2.8	1.5	e0.61	e1.4	3.0	3.8	2.6	4.0	12	0.85	0.38
4	0.53	5.7	1.5	e0.42	e1.3	3.2	3.7	2.7	3.8	3.8	0.78	0.32
5	0.53	1.6	1.3	e0.49	e1.7	82	3.7	2.6	3.7	3.6	0.81	0.46
6	0.53	1.00	1.0	e0.57	e1.8	15	3.8	2.5	3.6	3.6	0.72	0.63
7	0.53	0.82	1.7	0.64	e2.1	6.9	3.7	2.3	3.7	5.1	0.65	0.39
8	0.45	0.74	1.4	0.78	e2.6	5.6	3.5	2.4	3.4	5.5	1.1	0.37
9	0.31	0.86	1.2	0.98	e2.4	4.9	3.5	2.6	3.3	3.7	0.88	0.38
10	0.45	1.0	e0.63	1.2	e2.2	4.4	3.8	2.9	3.0	2.8	0.66	0.35
11	0.45	1.0	e0.81	1.6	e2.0	4.0	3.5	2.7	2.7	3.6	0.91	e0.28
12	0.70	1.2	e0.78	1.8	e2.0	3.0	3.7	2.4	51	4.2	0.98	e0.20
13	0.70	0.70	e0.83	2.1	e2.2	3.1	3.7	2.0	300	3.2	0.86	e0.12
14	1.0	0.89	1.3	2.2	e2.0	3.0	3.5	1.9	36	2.8	0.79	e0.10
15	0.80	0.95	1.6	2.3	e2.1	4.1	3.6	1.8	18	2.4	0.84	e0.25
16	0.61	1.0	1.5	2.4	e2.0	4.6	3.4	1.9	13	2.1	0.70	0.44
17	1.1	1.2	1.3	e2.0	e1.9	4.1	3.4	2.3	9.5	2.0	1.0	0.25
18	0.30	1.3	1.6	e1.8	e1.9	3.9	3.5	13	7.6	1.9	0.64	0.24
19	0.30	1.2	1.8	1.4	3.0	3.6	3.2	6.2	5.8	1.9	0.56	0.19
20	0.33	1.2	1.6	1.4	4.2	3.7	3.2	4.0	5.0	2.2	0.43	0.18
21	0.28	1.2	1.8	1.7	4.9	3.4	3.2	3.4	8.6	1.8	0.41	0.41
22	0.29	1.2	2.2	1.7	5.2	3.7	3.0	5.9	6.8	1.7	0.56	1.1
23	0.32	1.3	1.6	1.8	5.8	4.5	3.1	208	5.5	1.7	0.50	0.90
24	0.31	0.81	1.3	1.8	3.4	4.4	4.0	34	4.1	2.4	0.86	0.56
25	0.32	1.4	1.4	1.8	2.7	4.2	4.9	16	4.2	2.6	1.5	0.33
26	0.46	1.4	1.9	1.8	2.3	4.0	3.6	9.6	3.5	1.8	1.5	0.29
27	0.75	1.2	3.2	e2.0	3.4	11	3.4	7.3	3.3	1.4	0.89	0.32
28	0.73	0.84	1.9	e2.1	3.1	12	3.3	5.8	3.0	1.2	0.68	0.26
29	0.61	1.1	1.7	e2.1	3.8	6.5	3.3	4.8	2.8	1.2	0.59	0.25
30	0.63	1.4	1.4	e2.1	---	5.4	3.1	4.6	2.6	1.2	0.59	0.28
31	0.74	---	1.6	e2.0	---	4.7	---	4.0	---	1.1	0.54	---
TOTAL	16.42	38.95	46.05	48.49	76.6	236.4	107.7	367.8	528.1	144.2	24.41	11.18
MEAN	0.53	1.30	1.49	1.56	2.64	7.63	3.59	11.9	17.6	4.65	0.79	0.37
MAX	1.1	5.7	3.2	2.4	5.8	82	4.9	208	300	57	1.5	1.1
MIN	0.28	0.64	0.63	0.42	1.3	3.0	3.0	1.8	2.6	1.1	0.41	0.10
AC-FT	33	77	91	96	152	469	214	730	1050	286	48	22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)

MEAN	3.70	7.25	4.36	4.40	7.67	9.93	13.0	41.1	30.6	10.2	4.26	3.05
MAX	12.2	34.8	10.9	9.65	25.6	31.9	37.4	139	74.0	17.2	19.2	9.46
(WY)	1999	1999	1999	1999	1998	1998	1998	1995	1998	1998	1998	1996
MIN	0.53	1.30	1.47	1.56	2.37	3.23	3.59	2.30	2.86	0.94	0.40	0.37
(WY)	2004	2004	2001	2004	2001	1996	2004	2000	2002	2002	2003	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1994 - 2004	
ANNUAL TOTAL	2114.46		1646.30			
ANNUAL MEAN	5.79		4.50		11.6	
HIGHEST ANNUAL MEAN					22.2	1998
LOWEST ANNUAL MEAN					3.99	2002
HIGHEST DAILY MEAN	491	Jun 12	300	Jun 13	786	May 8 1995
LOWEST DAILY MEAN	0.17	Sep 4	0.10	Sep 14	0.04	Sep 19 2000
ANNUAL SEVEN-DAY MINIMUM	0.19	Sep 2	0.23	Sep 13	0.09	Sep 7 2000
MAXIMUM PEAK FLOW			1010	Jun 13	1970	Jun 14 2001
MAXIMUM PEAK STAGE			9.11	Jun 13	12.89	Jun 14 2001
ANNUAL RUNOFF (AC-FT)	4190		3270		8420	
10 PERCENT EXCEEDS	5.7		5.0		21	
50 PERCENT EXCEEDS	1.8		1.8		4.0	
90 PERCENT EXCEEDS	0.30		0.44		1.0	

e Estimated

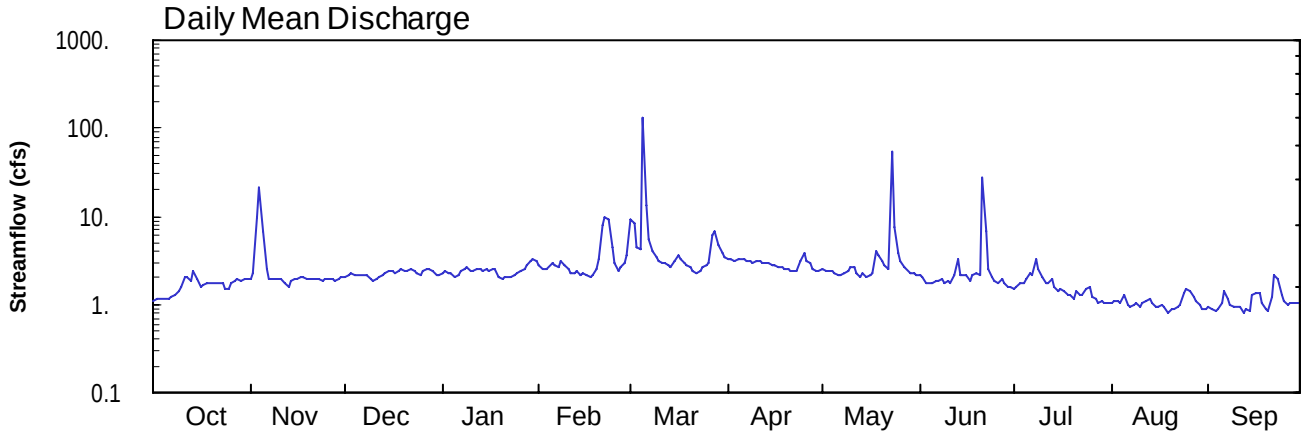
2004 Water Year

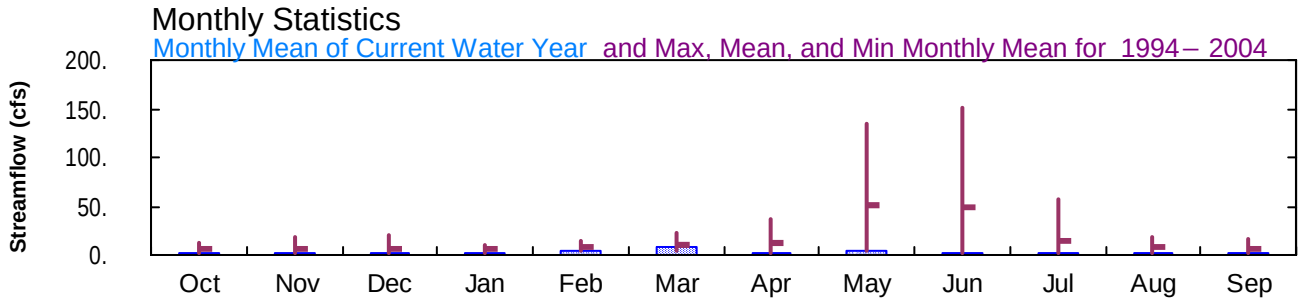
PLATTE RIVER BASIN

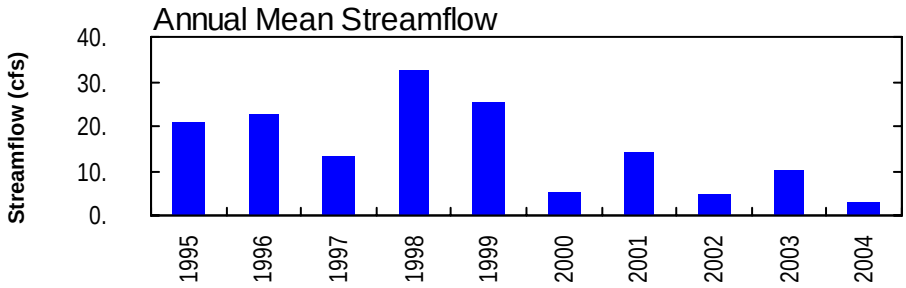
06803170 MIDDLE CREEK AT SW 40th ST. AT LINCOLN, NE

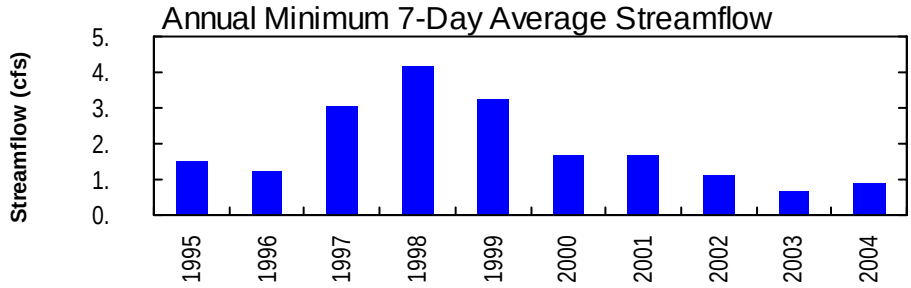
Latitude: 40° 48 ' 20" Longitude: 096° 46 ' 39" Hydrologic Unit Code: 10200203

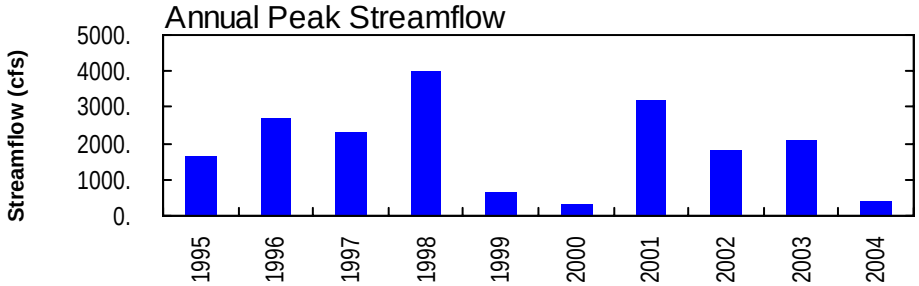
Lancaster County Datum: 1144.45 feet Drainage Area: 94. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06803170 MIDDLE CREEK AT SW 40th ST. AT LINCOLN, NE

LOCATION—Lat 40°48'20", long 96°46'39", in NW 1/4 SW 1/4, sec.29, T.10 N., R.6 E., Lancaster County, Hydrologic Unit 10200203, on right downstream side of bridge.

DRAINAGE AREA—94 mi^2.

PERIOD OF RECORD—October 1994 to current year.

GAGE—Water-stage recorder. Datum of gage is 1,144.45 ft above sea level. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

06803170 MIDDLE CREEK AT SW 40th ST. AT LINCOLN, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.9	2.0	2.3	e2.8	9.0	3.3	2.5	2.1	1.5	1.1	0.92
2	1.1	2.2	2.1	2.4	e2.6	8.5	3.3	2.4	2.1	1.6	1.1	0.87
3	1.2	9.6	2.2	2.2	e2.5	4.5	3.2	2.4	1.8	1.8	1.1	0.83
4	1.2	21	2.2	e2.3	e2.6	4.1	3.2	2.3	1.7	1.8	1.0	0.88
5	1.2	6.8	2.1	e2.1	e3.0	133	3.2	2.3	1.7	2.0	1.3	1.1
6	1.2	2.5	2.1	e2.2	e2.9	14	3.3	2.2	1.8	2.3	1.0	1.4
7	1.2	2.0	2.1	e2.4	e2.7	5.6	3.1	2.1	1.8	2.1	0.92	1.2
8	1.3	1.9	2.1	e2.5	e3.1	4.0	3.1	2.2	1.9	3.3	0.97	0.96
9	1.4	1.9	e2.0	e2.6	e2.8	3.5	3.0	2.4	1.8	2.5	1.0	0.94
10	1.5	2.0	e1.8	2.4	e2.5	3.1	3.2	2.6	1.9	2.0	0.94	0.95
11	2.1	1.9	e1.9	2.4	e2.2	3.0	3.1	2.6	1.8	1.8	1.0	0.92
12	2.0	1.8	e2.0	2.5	e2.2	2.9	2.9	2.2	2.1	1.8	1.1	0.82
13	1.8	1.6	e2.1	2.5	e2.3	2.8	3.0	2.0	3.3	1.9	1.2	0.87
14	2.4	1.8	2.2	2.4	e2.2	2.7	2.9	2.2	2.2	1.6	1.1	0.83
15	2.0	1.9	2.4	2.5	e2.2	3.2	2.9	2.1	2.1	1.5	0.96	1.3
16	1.6	1.9	2.3	2.4	e2.2	3.6	2.8	2.2	2.1	1.5	0.94	1.4
17	1.7	2.1	2.3	2.5	e2.1	3.3	2.7	2.3	1.8	1.4	0.97	1.3
18	1.8	2.0	2.4	2.5	e2.2	3.0	2.7	4.1	2.1	1.3	0.94	1.1
19	1.7	2.0	2.5	2.0	e2.5	2.8	2.5	3.7	2.3	1.3	0.81	0.89
20	1.7	1.9	2.4	1.9	3.3	2.6	2.5	3.1	2.1	1.2	0.87	0.86
21	1.8	1.9	2.4	2.0	7.9	2.4	2.4	2.8	27	1.4	0.90	1.2
22	1.8	1.9	2.5	2.1	9.5	2.3	2.4	2.6	6.9	1.3	0.93	2.2
23	1.8	2.0	2.4	2.1	9.0	2.4	2.4	54	2.6	1.2	1.00	1.9
24	1.5	1.9	2.2	2.2	4.5	2.7	3.0	7.3	2.0	1.5	1.3	1.3
25	1.5	1.9	2.2	e2.3	3.0	2.8	3.9	3.8	1.9	1.6	1.5	1.1
26	1.7	1.9	2.4	e2.5	2.4	2.9	3.2	3.2	1.8	1.2	1.4	1.0
27	1.9	1.9	2.5	e2.5	2.6	6.1	2.9	2.7	1.9	1.1	1.2	1.0
28	1.9	1.9	2.5	e2.8	2.9	6.6	2.6	2.5	1.8	1.1	1.1	1.0
29	1.9	2.0	2.4	e3.2	3.6	4.6	2.4	2.2	1.6	1.1	0.99	1.1
30	1.9	2.0	2.2	e3.3	---	3.8	2.4	2.3	1.5	1.1	0.91	1.0
31	1.9	---	2.2	e3.0	---	3.4	---	2.2	---	1.0	0.87	---
TOTAL	50.8	90.0	69.1	75.0	96.3	259.2	87.5	135.5	89.5	49.8	32.42	33.14
MEAN	1.64	3.00	2.23	2.42	3.32	8.36	2.92	4.37	2.98	1.61	1.05	1.10
MAX	2.4	21	2.5	3.3	9.5	133	3.9	54	27	3.3	1.5	2.2
MIN	1.1	1.6	1.8	1.9	2.1	2.3	2.4	2.0	1.5	1.0	0.81	0.82
AC-FT	101	179	137	149	191	514	174	269	178	99	64	66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)

MEAN	6.43	6.89	5.83	5.66	7.69	10.5	12.6	51.1	48.5	13.9	7.28	6.20
MAX	13.0	17.7	19.8	9.86	14.3	23.1	37.4	136	151	56.7	18.3	16.4
(WY)	1997	1999	1998	2000	1998	1998	1998	1995	1998	1999	2002	1996
MIN	1.64	1.33	1.20	1.24	3.25	3.19	1.98	4.37	2.82	1.61	1.05	1.10
(WY)	2004	2003	2003	2003	2002	2002	1996	2004	2002	2004	2004	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1994 - 2004	
ANNUAL TOTAL	3697.56		1068.26			
ANNUAL MEAN	10.1		2.92		15.2	
HIGHEST ANNUAL MEAN					32.6	1998
LOWEST ANNUAL MEAN					2.92	2004
HIGHEST DAILY MEAN	820	Jun 12	133	Mar 5	1840	Jun 14 1998
LOWEST DAILY MEAN	0.64	Jan 13	0.81	Aug 19	0.44	Nov 27 2002
ANNUAL SEVEN-DAY MINIMUM	0.70	Jan 11	0.90	Aug 29	0.66	Dec 20 2002
MAXIMUM PEAK FLOW			390	Mar 5	4030	Jun 14 1998
MAXIMUM PEAK STAGE			5.00	Mar 5	16.25	Jun 14 1998
ANNUAL RUNOFF (AC-FT)	7330		2120		11030	
10 PERCENT EXCEEDS	14		3.3		25	
50 PERCENT EXCEEDS	2.2		2.1		4.9	
90 PERCENT EXCEEDS	1.1		1.0		1.9	

e Estimated

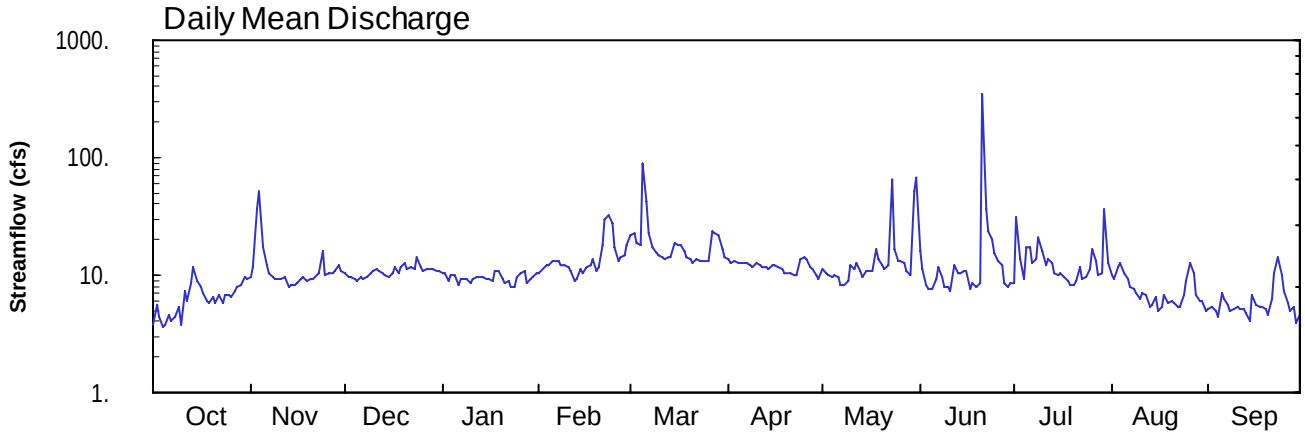
2004 Water Year

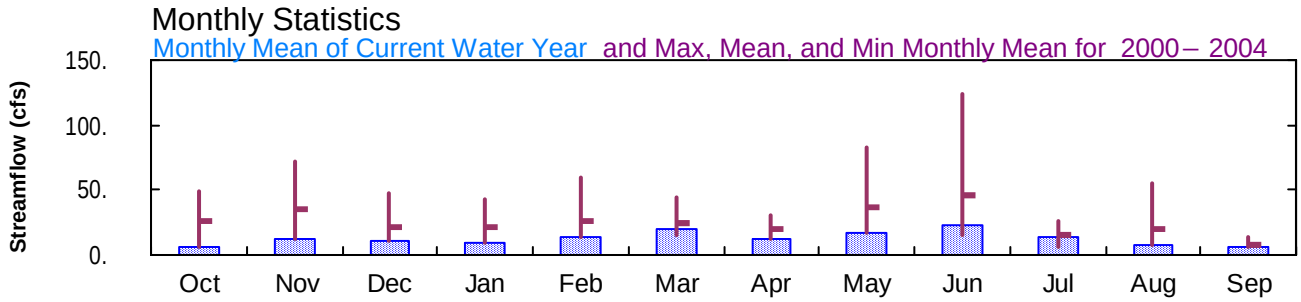
PLATTE RIVER BASIN

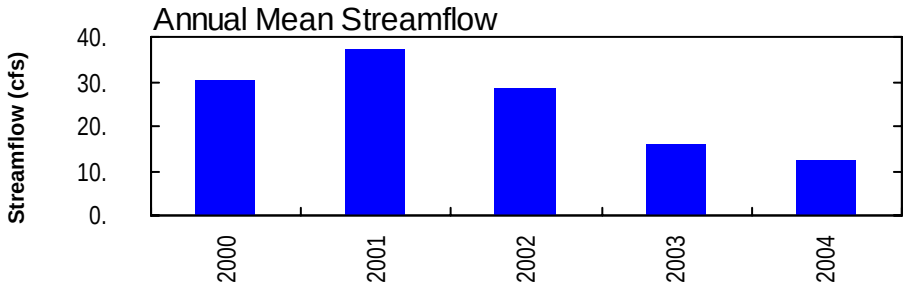
06803486 OAK CREEK AT AIR PARK RD AT LINCOLN, NE

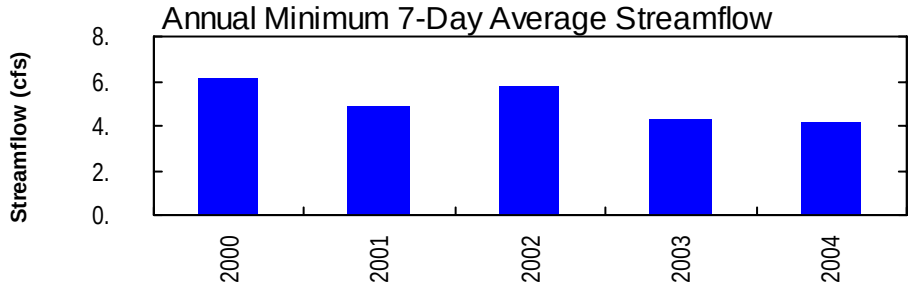
Latitude: 40° 51 ' 19" Longitude: 096° 46 ' 46" Hydrologic Unit Code: 10200203

Lancaster County Datum: 1142.86 feet Drainage Area: 240. mi^2









NO PHOTOS AVAILABLE FOR THIS SITE

06803486 OAK CREEK AT AIR PARK ROAD AT LINCOLN, NE

LOCATION—Lat 40°51'20", long 96°46'46", in NE 1/4 NE 1/4, sec.7, T.10 N., R.6 E., Lancaster County, Hydrologic Unit 10200203, on left bank at downstream of bridge on Air Park Road immediately west of NW 42nd Street in West Lincoln Industrial Park.

DRAINAGE AREA—240 mi^2.

PERIOD OF RECORD—October 1999 to current year.

GAGE—Water-stage recorder. Elevation of gage is 1,142.86 ft above sea level. Nebraska Department of Natural Resources operated gage May 1987 to March 25, 1999 at present site and March 26, 1999 to March 14, 2000 at temporary site 1.0 mi downstream, both at same datum. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD—Maximum discharge, 8,730 ft3/s, July 24, 1993, gage height 22.66 ft; minimum daily discharge, 2.6 ft3/s July 24, 1990, during period of gage operation by Nebraska Department of Natural Resources.

06803486 OAK CREEK AT AIR PARK ROAD AT LINCOLN, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	9.4	10	11	e11	22	13	11	16	8.5	10	5.1
2	5.6	12	e9.8	11	e11	22	13	10	11	31	9.3	5.3
3	4.4	37	e9.7	e9.0	e12	19	13	10	8.3	14	12	4.9
4	3.6	52	e9.3	e9.9	e12	18	13	9.6	7.5	9.2	12	4.5
5	3.8	17	e9.0	e9.8	e13	89	13	10	7.8	18	10	6.9
6	4.5	12	e9.8	e8.4	e13	43	13	9.7	9.3	17	9.2	6.3
7	4.1	10	e9.2	e9.1	e13	22	13	8.3	12	13	8.0	5.5
8	4.4	9.7	e9.5	e9.2	e12	17	12	8.1	9.7	14	7.7	4.9
9	5.3	9.2	e11	e9.3	e12	15	12	9.0	8.0	21	7.0	5.1
10	3.8	9.4	e11	e8.6	e12	15	13	12	7.9	16	6.4	5.3
11	7.3	9.1	e11	e9.1	e11	14	12	11	7.4	12	7.0	5.2
12	6.1	9.5	e11	e9.4	e9.1	14	12	13	12	14	6.8	5.1
13	8.6	7.9	e11	e9.4	e9.3	14	12	11	11	12	5.4	4.8
14	12	8.1	e10	e9.4	e11	14	11	9.7	10	11	5.6	4.0
15	9.0	8.3	e9.5	e9.2	e11	19	12	11	11	9.8	6.5	6.7
16	7.9	8.7	10	e9.3	e12	18	12	11	11	11	5.0	5.5
17	7.1	9.3	12	e8.8	e12	18	12	11	7.6	9.8	5.4	5.4
18	6.0	9.5	10	e11	e13	16	11	17	8.6	9.1	6.7	5.3
19	5.9	8.9	12	e11	e11	14	10	14	7.8	8.3	5.8	5.2
20	6.5	9.1	13	e9.4	e12	14	11	12	8.4	8.2	6.0	4.5
21	5.9	9.1	11	e8.6	e18	13	10	11	354	9.1	5.7	6.2
22	6.8	10	12	e9.0	e30	14	10	12	36	11	5.3	10
23	5.9	10	11	e7.9	e32	13	10	65	24	9.1	5.4	14
24	6.9	16	14	e7.8	27	13	14	16	20	9.6	6.6	9.9
25	6.8	10	12	e9.8	17	13	14	13	15	11	9.1	7.4
26	6.6	10	11	e10	13	13	14	13	13	16	12	5.9
27	7.4	10	11	e11	14	23	12	13	12	13	11	5.0
28	7.8	11	11	e8.6	15	23	11	11	8.4	10	6.8	5.5
29	8.3	12	11	e9.3	18	21	10	10	8.1	10	6.0	3.9
30	9.4	11	11	e9.6	---	16	9.4	52	8.7	36	6.1	4.5
31	9.1	---	11	e10	---	14	---	66	---	13	5.0	---
TOTAL	200.6	375.2	333.8	292.9	416.4	613	357.4	500.4	691.5	414.7	230.8	177.8
MEAN	6.47	12.5	10.8	9.45	14.4	19.8	11.9	16.1	23.1	13.4	7.45	5.93
MAX	12	52	14	11	32	89	14	66	354	36	12	14
MIN	3.6	7.9	9.0	7.8	9.1	13	9.4	8.1	7.4	8.2	5.0	3.9
AC-FT	398	744	662	581	826	1220	709	993	1370	823	458	353

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	25.5	35.5	21.8	21.6	25.8	24.0	19.2	36.8	45.9	15.8	19.2	8.38
MAX	48.3	71.6	47.5	43.1	59.8	45.1	29.9	83.0	125	26.5	54.9	13.8
(WY)	2000	2000	2002	2000	2001	2001	2001	2001	2001	2000	2002	2001
MIN	6.47	12.5	10.8	9.45	14.4	15.7	11.9	16.1	15.9	6.74	7.26	5.93
(WY)	2004	2004	2004	2004	2004	2003	2004	2004	2002	2003	2003	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	5476.2		4604.5			
ANNUAL MEAN	15.0		12.6		24.9	
HIGHEST ANNUAL MEAN					37.4	2001
LOWEST ANNUAL MEAN					12.6	2004
HIGHEST DAILY MEAN	193	May 4	354	Jun 21	1000	Aug 22 2002
LOWEST DAILY MEAN	3.5	Sep 27	3.6	Oct 4	3.3	Oct 1 2000
ANNUAL SEVEN-DAY MINIMUM	4.0	Sep 25	4.2	Oct 4	4.0	Sep 25 2003
MAXIMUM PEAK FLOW			912	Jun 21	1870	Jun 14 2001
MAXIMUM PEAK STAGE			5.75	Jun 21	9.21	Jun 14 2001
ANNUAL RUNOFF (AC-FT)	10860		9130		18050	
10 PERCENT EXCEEDS	20		16		52	
50 PERCENT EXCEEDS	11		10		15	
90 PERCENT EXCEEDS	5.6		5.6		6.8	

e Estimated

2004 Water Year

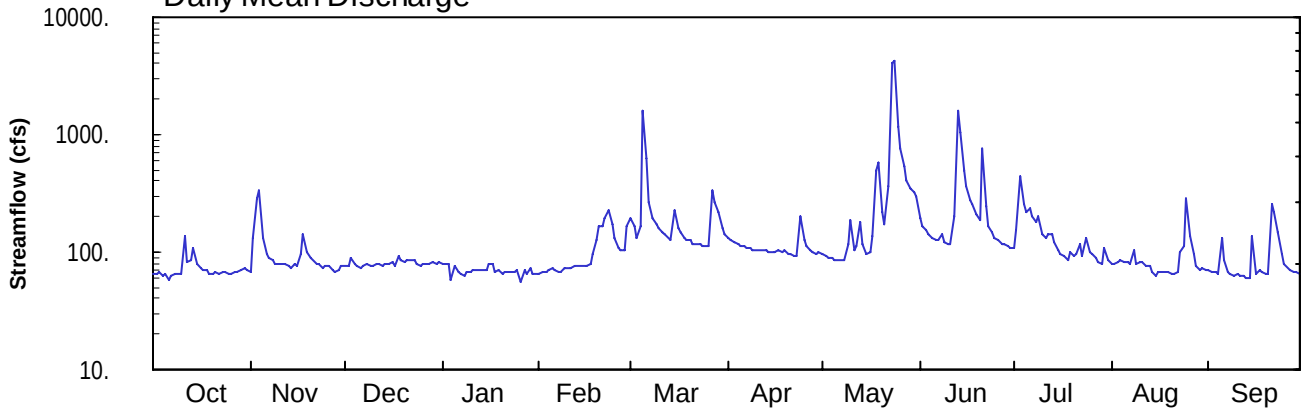
PLATTE RIVER BASIN

06803500 SALT CREEK AT LINCOLN, NEBR.

Latitude: 40° 50 ' 48 " Longitude: 096° 40 ' 54 " Hydrologic Unit Code: 10200203

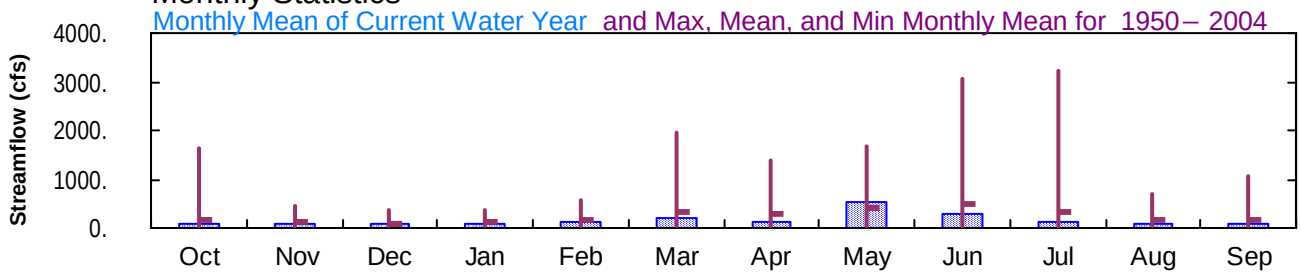
Lancaster County Datum: 1113.90 feet Drainage Area: 685. mi^2

Daily Mean Discharge

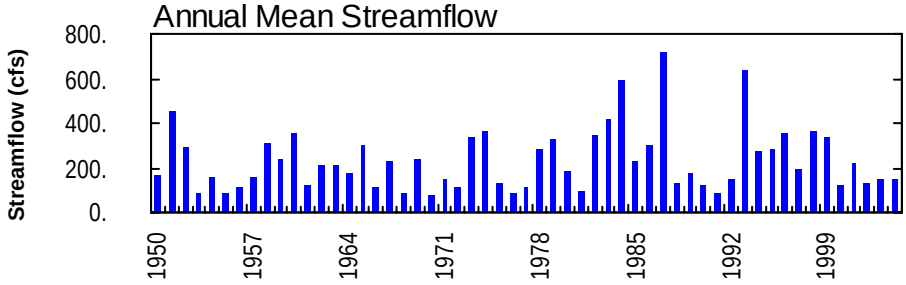


Monthly Statistics

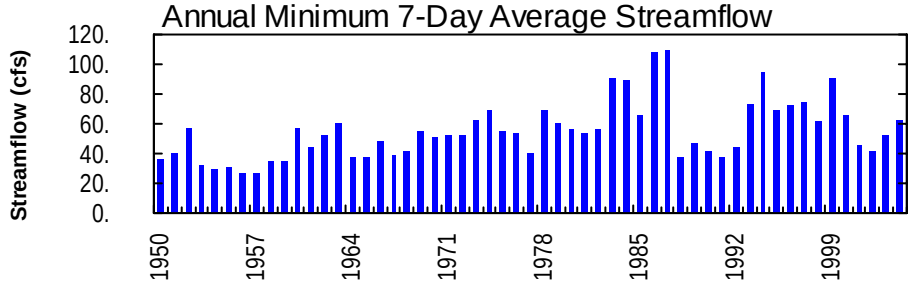
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1950 – 2004



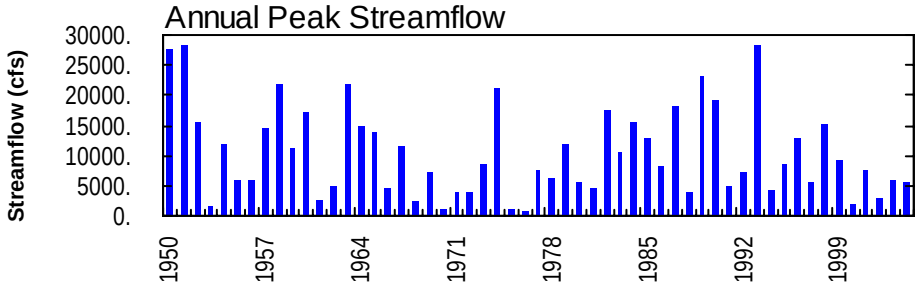
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



NO PHOTOS AVAILABLE FOR THIS SITE

06803500 SALT CREEK AT LINCOLN, NE

LOCATION—Lat 40°50'49", long 96°40'54", in NW 1/4 SW 1/4 sec.7, T.10 N., R.7 E., Lancaster County, Hydrologic Unit 10200203 on right bank 135 ft downstream from bridge on North 27th Street at north edge of Lincoln, 1 mi downstream from Oak Creek and at mile 31.0.

DRAINAGE AREA—685 mi^2.

PERIOD OF RECORD—October 1949 to current year.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,113.90 ft above sea level. Prior to July 27, 1979, water-stage recorder for stages above 6.2 ft on downstream side of bridge pier, 135 ft upstream at same datum, and nonrecording gage read twice daily. Data collection platform at station.

REMARKS—Records good. Flood flow affected by several detention dams.

06803500 SALT CREEK AT LINCOLN, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	67	77	79	66	197	132	96	195	109	78	70
2	66	130	77	79	67	165	126	91	169	152	79	69
3	68	292	88	78	69	133	121	90	153	434	82	68
4	63	340	78	58	70	165	116	89	143	257	85	65
5	65	134	77	76	72	1590	114	86	134	217	81	134
6	59	98	74	68	71	618	112	84	126	239	82	87
7	63	88	75	64	68	263	109	85	127	198	78	67
8	65	84	78	63	69	195	108	84	142	177	106	64
9	65	79	76	67	73	174	105	117	123	204	80	63
10	66	80	75	69	74	159	106	185	117	140	82	64
11	136	80	79	70	74	147	102	106	115	130	81	63
12	81	80	78	71	75	140	102	111	200	141	77	62
13	86	76	76	70	76	134	102	180	1590	141	75	61
14	110	74	78	70	76	128	99	117	1050	120	68	61
15	78	80	80	70	75	229	100	98	505	102	63	135
16	72	75	83	78	75	162	101	100	358	97	67	65
17	71	96	77	80	78	146	102	135	273	92	68	71
18	70	141	92	69	98	133	100	501	257	87	69	68
19	65	101	87	70	124	128	102	568	214	101	69	65
20	65	88	83	66	167	124	98	217	185	92	64	66
21	67	84	84	67	165	119	95	171	753	96	65	251
22	66	79	85	67	191	116	94	360	248	115	69	218
23	67	80	85	68	226	116	92	4070	168	92	99	146
24	68	72	79	69	175	113	205	4310	146	134	113	96
25	66	76	76	70	130	113	127	1170	130	99	283	80
26	66	76	78	56	110	112	112	763	124	95	135	72
27	67	71	80	70	104	341	105	544	118	90	96	71
28	68	67	80	65	106	265	100	411	117	81	76	69
29	71	70	82	72	166	215	97	351	111	80	71	67
30	72	76	79	66	---	159	100	323	107	109	72	64
31	70	---	81	66	---	142	---	294	---	86	71	---
TOTAL	2227	3034	2477	2151	2990	6941	3284	15907	8198	4307	2684	2602
MEAN	71.8	101	79.9	69.4	103	224	109	513	273	139	86.6	86.7
MAX	136	340	92	80	226	1590	205	4310	1590	434	283	251
MIN	59	67	74	56	66	112	92	84	107	80	63	61
AC-FT	4420	6020	4910	4270	5930	13770	6510	31550	16260	8540	5320	5160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

MEAN	169	117	96.5	104	167	322	272	406	495	326	181	171
MAX	1621	442	349	350	577	1972	1383	1693	3061	3205	704	1075
(WY)	1974	1999	1987	1974	1958	1987	1987	1996	1951	1993	1987	1989
MIN	35.2	36.3	30.6	33.6	39.9	45.5	52.6	49.9	58.8	48.8	44.6	47.0
(WY)	1956	1956	1957	1957	1957	1957	1956	1955	1958	1955	1955	1953

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004	
ANNUAL TOTAL	53652		56802			
ANNUAL MEAN	147		155		236	
HIGHEST ANNUAL MEAN					721	1987
LOWEST ANNUAL MEAN					81.4	1970
HIGHEST DAILY MEAN	3750	Jun 12	4310	May 24	22100	Jun 2 1951
LOWEST DAILY MEAN	46	Aug 16	56	Jan 26	21	Jul 10 1977
ANNUAL SEVEN-DAY MINIMUM	52	Aug 11	63	Sep 8	26	May 19 1956
MAXIMUM PEAK FLOW			5740	May 24	28400	Jul 24 1993
MAXIMUM PEAK STAGE			11.37	May 24	26.52	Jul 24 1993
ANNUAL RUNOFF (AC-FT)	106400		112700		170800	
10 PERCENT EXCEEDS	199		217		386	
50 PERCENT EXCEEDS	83		88		98	
90 PERCENT EXCEEDS	63		66		52	

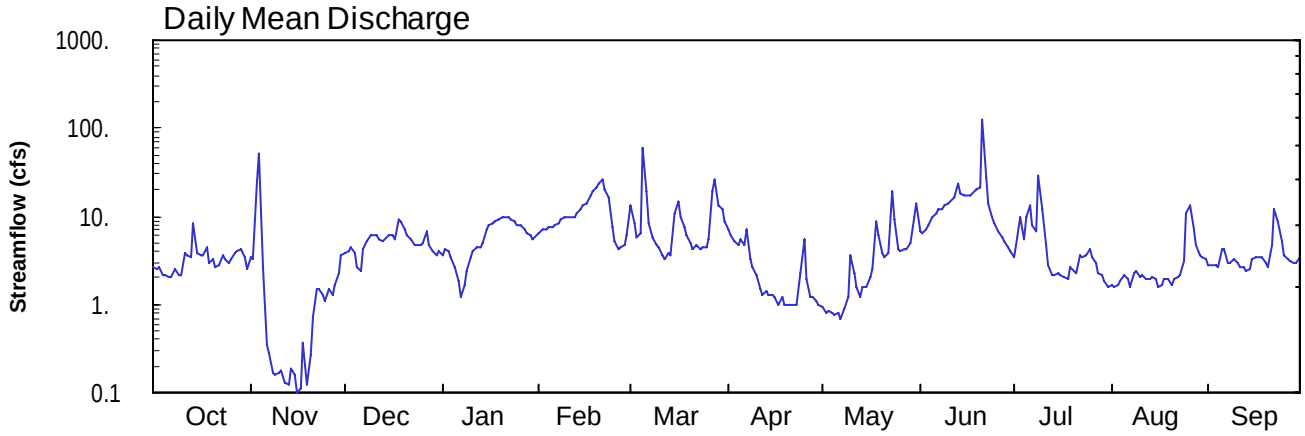
2004 Water Year

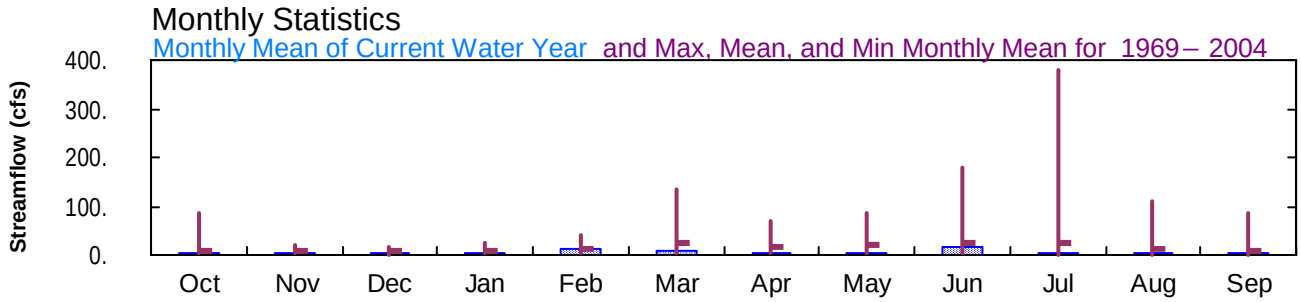
PLATTE RIVER BASIN

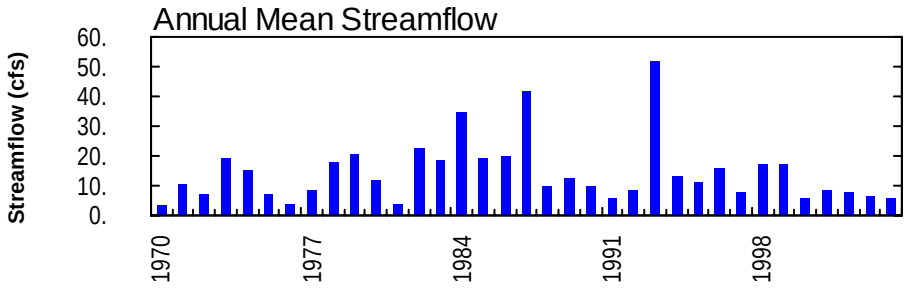
06803510 LITTLE SALT CREEK NEAR LINCOLN, NEBR.

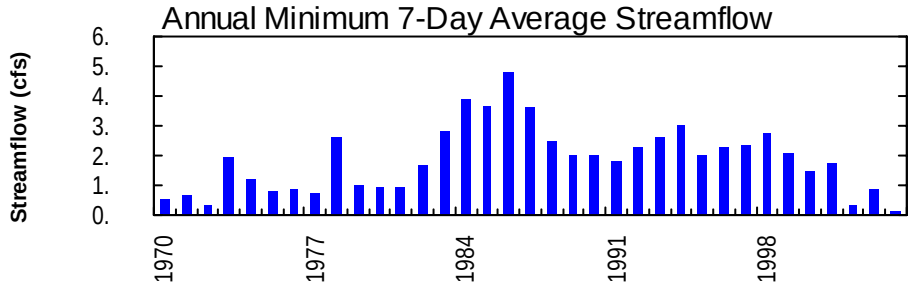
Latitude: 40° 53 ' 35" Longitude: 096° 40 ' 53" Hydrologic Unit Code: 10200203

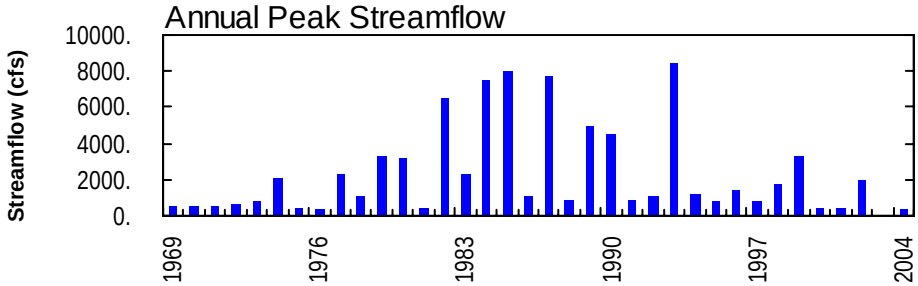
Lancaster County Datum: 1114.73 feet Drainage Area: 43.6 mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06803510 LITTLE SALT CREEK NEAR LINCOLN, NE

LOCATION—Lat 40°53'36", long 96°40'52", in NW 1/4 SW 1/4 sec.30, T.11 N., R.7 E., Lancaster County, Hydrologic Unit 10200203, on left bank 10 ft downstream from county road bridge, 0.4 mi north of intersection of Interstate Highway 80 and North 27th Street north of Lincoln, and at mile 1.6.

DRAINAGE AREA—43.6 mi^2.

PERIOD OF RECORD—January 1969 to current year.

REVISED RECORDS—WDR NE-77-1: 1969-73 (M).

GAGE—Water-stage recorder. Datum of gage is 1,114.73 ft above sea level. Prior to Oct. 10, 1980, water-stage recorder at present site and datum 3.00 ft higher. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

06803510 LITTLE SALT CREEK NEAR LINCOLN, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	3.5	3.9	3.7	e6.5	13	7.2	0.95	6.9	3.5	1.7	2.8
2	2.5	3.3	4.1	4.2	e7.0	8.3	6.2	0.80	6.4	4.6	1.6	2.8
3	2.6	25	4.4	e4.0	e7.2	5.7	5.2	0.83	7.1	9.9	1.7	2.8
4	2.1	51	3.8	e3.5	e7.5	6.5	4.7	0.81	8.1	5.6	1.8	2.7
5	2.1	2.5	2.6	e2.6	e7.7	61	5.6	0.75	9.5	10	2.1	4.2
6	2.0	0.34	2.4	e1.8	e7.9	19	4.7	0.79	11	13	1.9	4.3
7	2.0	0.28	4.2	e1.2	e8.4	8.3	7.2	0.68	12	7.9	1.6	2.9
8	2.5	0.17	e5.3	e1.7	e9.4	5.7	3.2	0.90	12	6.9	2.3	2.9
9	2.2	0.16	e6.1	e2.4	e10	4.6	2.6	1.2	13	29	2.4	3.3
10	2.2	0.17	e6.2	e3.4	e10	4.4	2.1	3.6	14	12	2.0	3.0
11	3.9	0.18	e6.0	4.1	e10	3.6	1.5	2.3	15	4.6	2.1	2.7
12	3.7	0.13	e5.5	4.5	e10	3.3	1.3	1.6	16	2.8	1.9	2.6
13	3.5	0.12	e5.1	4.5	e11	3.8	1.4	1.2	23	2.2	1.9	2.4
14	8.3	0.19	e5.6	5.0	e12	3.6	1.3	1.6	18	2.1	2.0	2.5
15	3.8	0.16	6.1	7.3	e13	11	1.3	1.6	17	2.3	1.9	3.2
16	3.6	0.10	6.0	e8.0	e14	15	1.2	2.0	17	2.2	1.6	3.5
17	3.7	0.11	5.4	e8.5	e17	9.8	1.0	2.5	17	2.0	1.7	3.4
18	4.5	0.37	9.4	e8.8	e19	7.5	1.2	8.8	18	1.9	1.9	3.4
19	3.0	0.12	9.0	e9.3	e21	6.0	1.0	6.0	20	2.6	1.9	3.0
20	3.2	0.27	7.0	e9.7	e23	5.0	1.0	3.9	21	2.4	1.7	2.6
21	2.6	0.72	e6.1	e10	e26	4.3	1.0	3.4	126	2.3	1.9	4.8
22	2.8	1.5	e5.6	e9.9	20	4.7	0.99	3.8	27	3.6	2.0	12
23	3.6	1.5	e4.8	e9.2	16	4.2	1.0	19	14	3.5	2.2	8.8
24	3.3	1.3	e4.8	e8.6	7.6	4.4	2.3	9.4	9.6	3.7	3.1	5.2
25	3.0	1.1	4.6	e8.0	5.1	4.4	5.6	4.3	8.2	4.3	11	3.6
26	3.2	1.5	4.9	e7.8	4.2	5.5	1.9	4.1	6.7	3.4	13	3.2
27	3.8	1.3	6.7	e7.0	4.5	19	1.2	4.2	5.9	2.9	7.1	3.1
28	4.1	1.7	4.8	e6.3	4.8	26	1.2	4.2	5.3	2.3	4.7	2.9
29	4.2	2.3	4.1	e6.0	6.0	13	1.1	5.0	4.5	2.1	3.7	3.0
30	3.5	3.7	3.7	e5.6	---	12	0.98	10	4.0	1.8	3.5	3.4
31	2.5	---	4.0	e6.2	---	8.6	---	14	---	1.6	3.2	---
TOTAL	100.6	104.79	162.2	182.8	325.8	311.2	78.17	124.21	493.2	159.0	93.1	111.0
MEAN	3.25	3.49	5.23	5.90	11.2	10.0	2.61	4.01	16.4	5.13	3.00	3.70
MAX	8.3	51	9.4	10	26	61	7.2	19	126	29	13	12
MIN	2.0	0.10	2.4	1.2	4.2	3.3	0.98	0.68	4.0	1.6	1.6	2.4
AC-FT	200	208	322	363	646	617	155	246	978	315	185	220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2004, BY WATER YEAR (WY)

MEAN	9.65	7.30	6.32	6.95	11.5	23.6	15.9	22.2	23.5	24.3	11.5	9.42
MAX	87.5	20.5	16.8	25.3	42.3	134	68.6	85.3	180	379	110	87.2
(WY)	1987	1973	1987	1973	1971	1979	1987	1996	1984	1993	1987	1989
MIN	2.13	2.32	1.69	2.28	3.10	3.57	2.61	3.54	2.31	1.09	1.74	0.96
(WY)	1977	1977	1977	1977	1972	1972	2004	1989	2002	2002	1976	1971

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1969 - 2004	
ANNUAL TOTAL	2266.61		2246.07			
ANNUAL MEAN	6.21		6.14		14.4	
HIGHEST ANNUAL MEAN					51.7	1993
LOWEST ANNUAL MEAN					3.59	1970
HIGHEST DAILY MEAN	118	Jun 23	126	Jun 21	5020	Jul 24 1993
LOWEST DAILY MEAN	0.10	Nov 16	0.10	Nov 16	0.10	Nov 16 2003
ANNUAL SEVEN-DAY MINIMUM	0.14	Nov 11	0.14	Nov 11	0.14	Nov 11 2003
MAXIMUM PEAK FLOW			339	Jun 21	8480	Jul 24 1993
MAXIMUM PEAK STAGE			5.91	Jun 21	20.58	Jul 24 1993
ANNUAL RUNOFF (AC-FT)	4500		4460		10450	
10 PERCENT EXCEEDS	9.4		13		18	
50 PERCENT EXCEEDS	3.8		3.9		5.5	
90 PERCENT EXCEEDS	1.2		1.2		2.3	

e Estimated

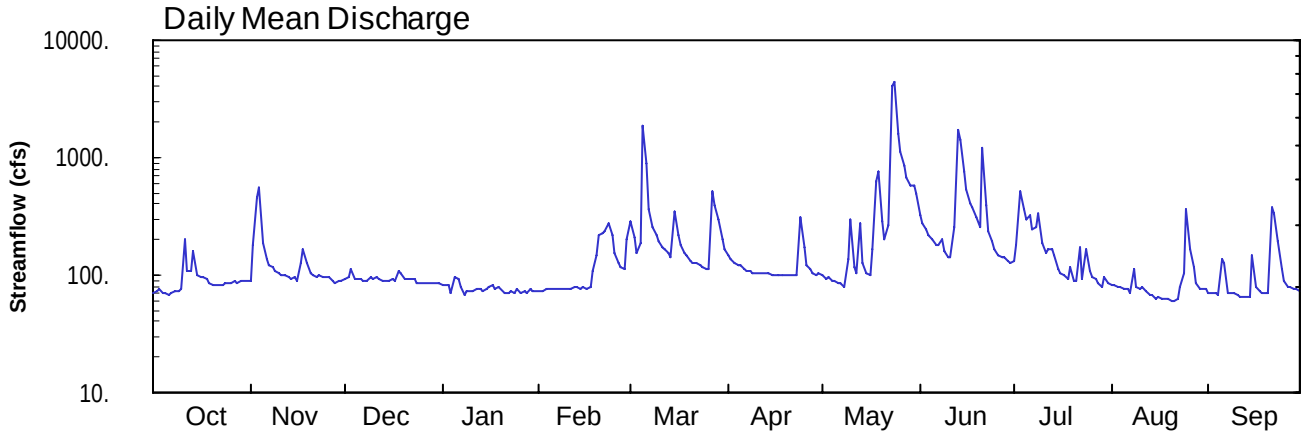
2004 Water Year

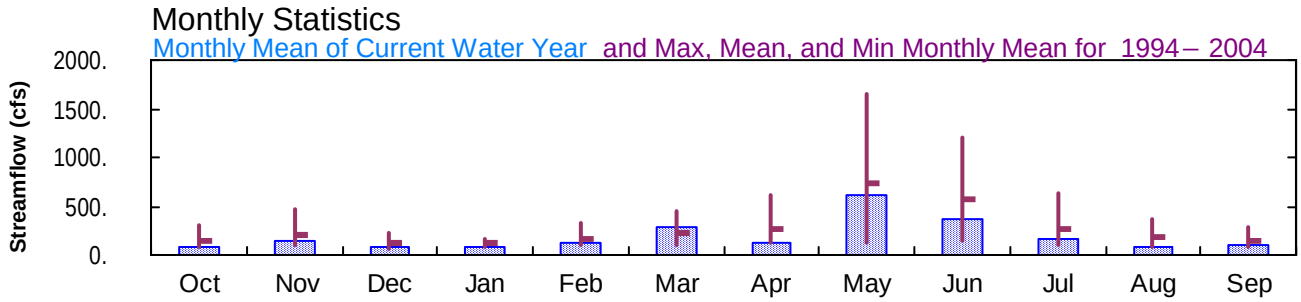
PLATTE RIVER BASIN

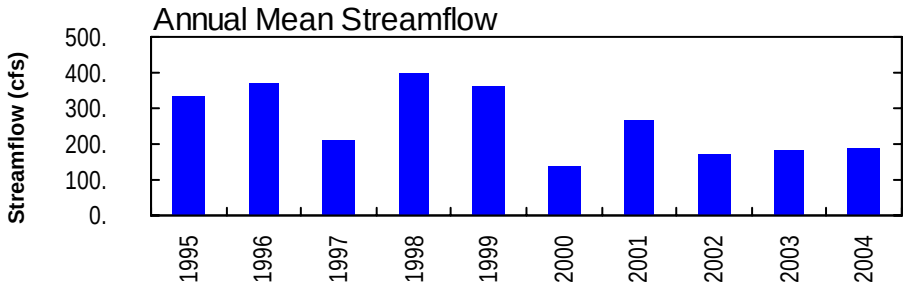
06803513 SALT CREEK AT 70th ST. AT LINCOLN, NE

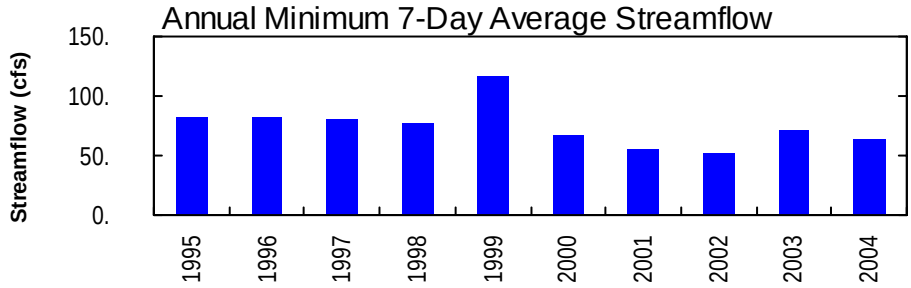
Latitude: 40°53'10" Longitude: 096°37'26" Hydrologic Unit Code: 10200203

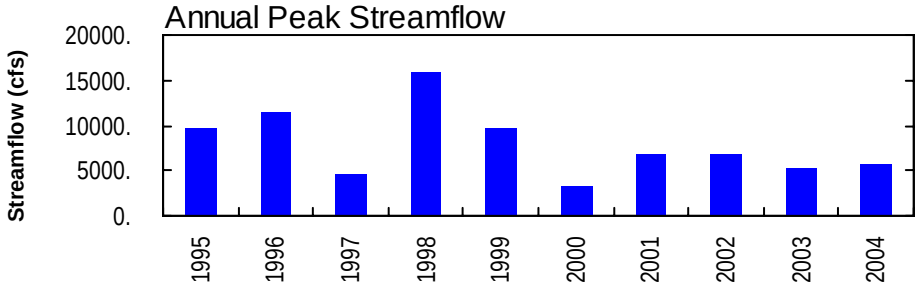
Lancaster County Datum: 1095.85 feet Drainage Area: 753. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06803513 SALT CREEK AT 70th STREET AT LINCOLN, NE

LOCATION—Lat 40°53'10", long 96°37'26", in SW 1/4 SW 1/4 sec. 27, T.11 N., R.7 W., Lancaster County, Hydrologic Unit 10200203, on left bank downstream from bridge.

DRAINAGE AREA—753 mi^2.

PERIOD OF RECORD—August 1994 to current year.

GAGE—Water-stage recorder. Elevation of gage is 1,095.85 ft above sea level. Data collection platform at station.

REMARKS—Records good.

06803513 SALT CREEK AT 70th STREET AT LINCOLN, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	88	91	83	72	283	149	99	326	e130	82	71
2	72	179	95	82	72	206	137	94	273	e183	82	71
3	75	464	112	81	75	154	128	96	243	e515	80	70
4	71	559	94	72	76	186	123	90	222	e364	78	68
5	71	184	94	95	77	1860	120	88	201	e300	75	139
6	69	137	92	94	77	889	113	84	181	e327	75	128
7	72	120	90	80	75	366	110	84	178	e247	72	71
8	74	115	90	69	76	258	106	81	201	e260	110	70
9	74	107	95	73	77	220	105	138	163	331	79	70
10	77	105	92	75	77	195	106	295	145	184	77	68
11	204	99	95	72	76	176	105	116	140	154	80	65
12	109	98	91	77	79	167	105	103	258	166	73	65
13	108	97	88	75	79	156	105	277	1710	166	68	66
14	157	94	88	73	77	142	103	129	1420	146	68	66
15	101	96	90	75	78	344	101	103	749	113	63	146
16	98	90	93	80	76	219	101	99	530	106	65	80
17	96	128	89	84	78	180	99	168	404	99	63	73
18	92	166	107	76	107	155	101	625	378	92	63	71
19	85	126	103	78	145	145	101	761	313	119	63	70
20	83	103	93	74	215	130	101	286	258	91	61	70
21	84	100	93	71	226	126	99	200	1240	90	61	382
22	83	97	92	71	234	124	101	262	397	171	63	334
23	82	102	93	72	276	121	101	4110	238	94	78	197
24	84	97	87	72	222	116	310	4490	191	163	104	114
25	84	96	85	76	154	113	173	1570	166	109	369	89
26	85	95	86	70	127	113	121	1110	150	96	164	80
27	87	90	87	e73	117	510	112	856	141	93	115	78
28	86	87	86	e71	113	392	103	683	141	84	84	76
29	89	89	86	e75	203	295	99	578	130	80	77	75
30	90	90	85	e74	---	202	103	583	e124	98	77	72
31	89	---	84	72	---	166	---	493	---	87	75	---
TOTAL	2801	4098	2846	2365	3436	8709	3541	18751	11211	5258	2744	3095
MEAN	90.4	137	91.8	76.3	118	281	118	605	374	170	88.5	103
MAX	204	559	112	95	276	1860	310	4490	1710	515	369	382
MIN	69	87	84	69	72	113	99	81	124	80	61	65
AC-FT	5560	8130	5650	4690	6820	17270	7020	37190	22240	10430	5440	6140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)

MEAN	151	196	127	123	168	215	265	728	578	271	180	149
MAX	307	471	220	162	327	455	621	1644	1199	628	367	279
(WY)	1999	1999	1998	1998	1998	1998	1998	1995	1998	1999	1996	1996
MIN	90.4	92.1	71.1	76.3	97.7	104	116	122	136	95.9	88.5	82.1
(WY)	2004	2003	2001	2004	2001	2002	2003	2000	2002	2002	2004	2000

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1994 - 2004	
ANNUAL TOTAL	64137		68855			
ANNUAL MEAN	176		188		263	
HIGHEST ANNUAL MEAN					400	1998
LOWEST ANNUAL MEAN					137	2000
HIGHEST DAILY MEAN	3560	Jun 12	4490	May 24	10200	Jun 14 1998
LOWEST DAILY MEAN	67	Aug 17	61	Aug 20	46	Aug 3 2002
ANNUAL SEVEN-DAY MINIMUM	71	Sep 26	63	Aug 15	51	Aug 6 2002
MAXIMUM PEAK FLOW			5680	May 24	15800	Jun 14 1998
MAXIMUM PEAK STAGE			14.11	May 24	23.65	Jun 14 1998
ANNUAL RUNOFF (AC-FT)	127200		136600		190400	
10 PERCENT EXCEEDS	259		311		459	
50 PERCENT EXCEEDS	97		99		140	
90 PERCENT EXCEEDS	75		72		82	

e Estimated

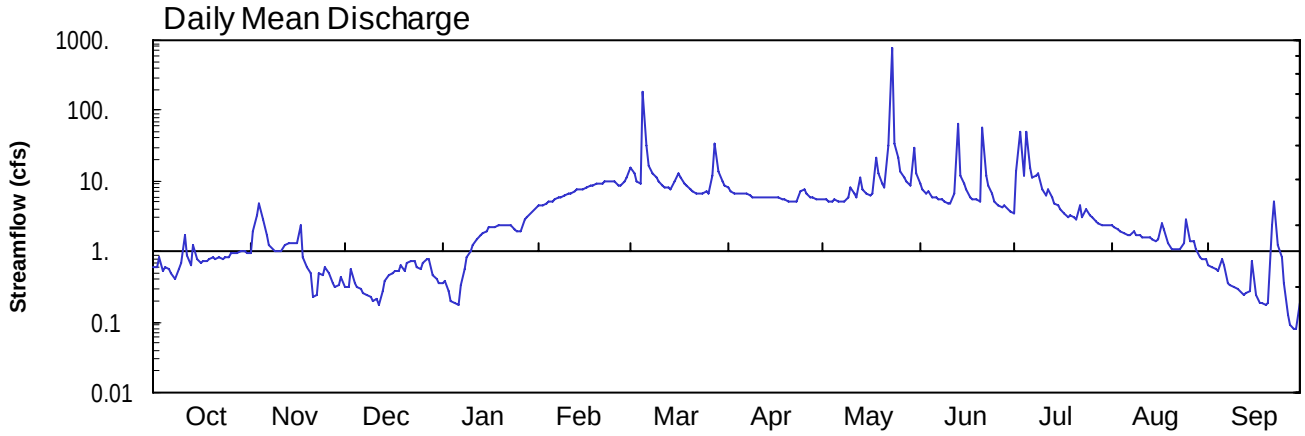
2004 Water Year

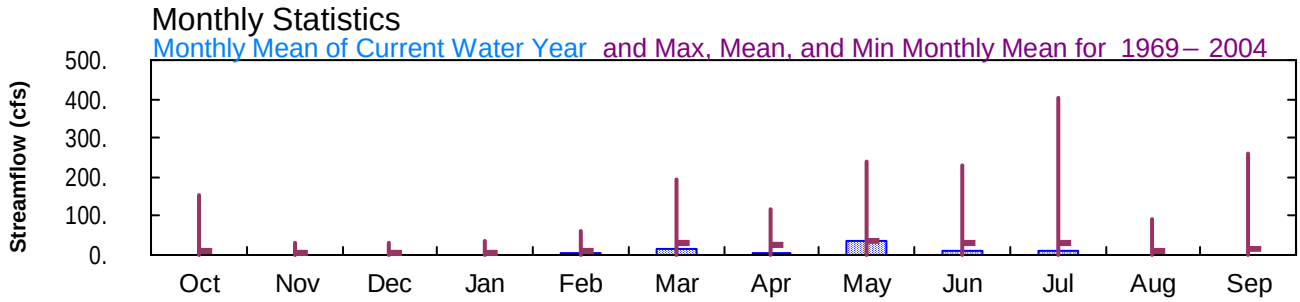
PLATTE RIVER BASIN

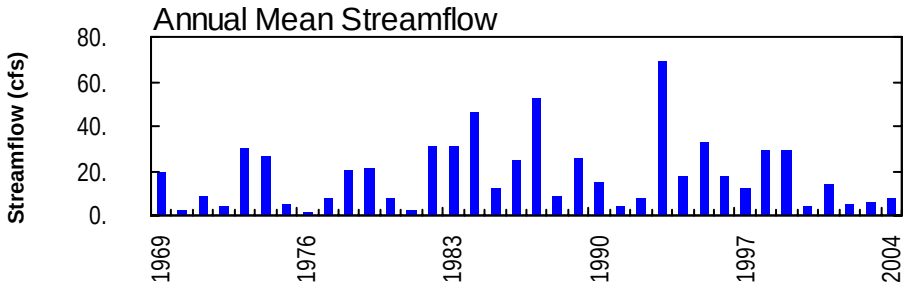
06803520 STEVENS CREEK NR. LINCOLN, NEBR.

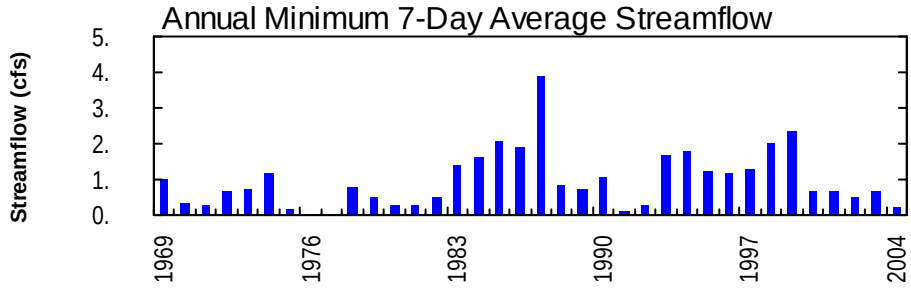
Latitude: 40° 51 ' 25" Longitude: 096° 35 ' 42" Hydrologic Unit Code: 10200203

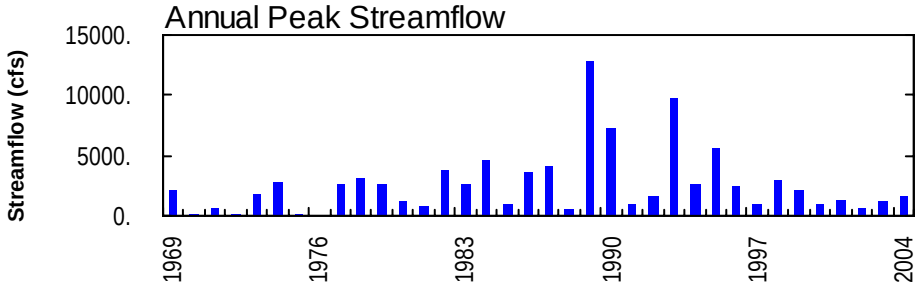
Lancaster County Datum: 1123.57 feet Drainage Area: 47.8 mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06803520 STEVENS CREEK NEAR LINCOLN, NE

LOCATION—Lat 40°51'25", long 096°35'42", in NW 1/4 NE 1/4 sec.11, T.10 N., R.7 E., Lancaster County, Hydrologic Unit 10200203, on left bank 10 ft upstream, 20 ft west from county road bridge on Havelock Avenue, 1.6 mi east of 70th Street at east edge of Lincoln, and at mile 3.2.

DRAINAGE AREA—47.8 mi^2.

PERIOD OF RECORD—October 1968 to current year.

GAGE—Water-stage recorder. Datum of gage is 1,123.57 ft above sea level. Oct. 1968 to Aug. 14, 1997 at present site and datum 2.0 ft higher. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, which are poor.

06803520 STEVENS CREEK NEAR LINCOLN, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.61	0.94	0.31	e0.36	e4.5	16	8.1	5.5	9.5	3.5	2.3	0.65
2	0.60	1.9	0.31	e0.37	e4.6	13	7.3	5.5	7.8	14	2.2	e0.59
3	0.86	3.3	0.55	e0.27	e4.8	9.7	6.9	5.3	6.7	50	2.1	e0.57
4	0.53	4.8	0.36	e0.20	e5.0	9.0	6.8	5.3	7.0	12	1.9	e0.54
5	0.61	2.8	0.31	e0.19	e5.3	189	6.8	5.5	5.9	50	1.8	0.76
6	0.55	1.7	0.29	e0.18	e5.5	32	6.8	5.3	5.7	16	1.7	0.66
7	0.49	1.2	0.26	e0.34	e5.7	17	6.8	5.3	5.6	11	1.7	e0.35
8	0.42	1.1	0.25	e0.57	e6.0	13	6.4	5.3	5.4	12	1.9	e0.33
9	0.55	0.99	0.23	e0.83	e6.2	11	6.0	5.8	5.1	13	1.7	e0.31
10	0.69	1.0	0.20	e1.0	e6.5	9.9	5.9	7.9	4.8	7.7	1.7	e0.29
11	1.7	1.0	0.21	e1.2	e6.9	8.9	6.0	6.5	4.9	6.3	1.6	e0.27
12	0.89	1.2	0.17	e1.5	e7.1	8.1	5.9	5.9	6.8	7.5	1.6	e0.25
13	0.63	1.3	0.28	e1.7	e7.4	8.3	5.9	11	65	5.9	1.6	e0.26
14	1.2	1.3	e0.37	e1.8	e7.6	7.8	5.9	7.6	12	4.9	1.5	e0.27
15	0.79	1.3	e0.45	2.0	e7.8	10	6.0	6.9	9.2	4.4	1.4	0.72
16	0.67	1.3	e0.51	2.2	e8.1	13	5.9	6.4	7.4	4.0	1.5	e0.25
17	0.73	2.4	e0.53	e2.2	e8.5	11	5.7	6.6	5.9	3.5	2.5	e0.19
18	0.75	0.86	e0.54	2.2	e8.8	9.4	5.6	22	5.6	3.1	2.1	e0.19
19	0.78	0.59	0.64	e2.3	e9.0	8.8	5.5	13	5.6	3.2	1.3	e0.17
20	0.81	0.48	0.52	e2.3	e9.3	7.8	5.3	9.2	5.2	3.0	1.1	e0.19
21	0.78	0.22	0.67	e2.3	e9.5	7.0	5.3	8.0	59	2.8	1.1	2.4
22	0.81	0.24	0.73	e2.3	e9.6	6.5	5.3	32	12	4.6	1.1	5.0
23	0.80	0.49	0.72	e2.3	e9.8	6.6	5.2	757	8.6	3.0	1.1	1.2
24	0.83	0.47	0.62	e2.1	e9.9	6.9	7.1	35	6.7	3.9	1.3	0.83
25	0.84	0.59	0.58	e1.9	e10	7.0	7.8	21	5.1	3.3	2.8	0.35
26	0.92	0.50	0.67	e2.0	8.9	6.7	6.5	14	4.6	3.0	1.4	0.13
27	0.95	0.36	0.77	e2.8	8.8	12	5.9	11	4.3	2.7	1.4	e0.09
28	0.98	0.31	0.79	e3.1	9.6	33	5.7	9.7	4.6	2.6	1.1	e0.08
29	1.0	0.34	e0.47	e3.4	11	14	5.5	8.8	4.0	2.4	0.82	e0.08
30	1.0	0.43	e0.42	e3.8	---	10	5.5	30	3.7	2.4	0.80	0.19
31	0.95	---	e0.35	e4.2	---	8.9	---	13	---	2.3	0.79	---
TOTAL	24.72	35.41	14.08	53.91	221.7	531.3	185.3	1091.3	303.7	268.0	48.91	18.16
MEAN	0.80	1.18	0.45	1.74	7.64	17.1	6.18	35.2	10.1	8.65	1.58	0.61
MAX	1.7	4.8	0.79	4.2	11	189	8.1	757	65	50	2.8	5.0
MIN	0.42	0.22	0.17	0.18	4.5	6.5	5.2	5.3	3.7	2.3	0.79	0.08
AC-FT	49	70	28	107	440	1050	368	2160	602	532	97	36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2004, BY WATER YEAR (WY)

MEAN	12.7	6.53	5.98	6.73	12.5	29.1	24.1	38.1	30.9	29.5	11.0	14.9
MAX	151	29.9	30.7	34.9	59.9	192	118	239	228	402	89.6	260
(WY)	1974	1997	1987	1974	1983	1979	1987	1995	1984	1993	1982	1989
MIN	0.28	0.57	0.45	0.83	1.13	1.33	1.28	1.29	0.41	0.27	0.07	0.13
(WY)	1977	1977	2004	1982	1978	1981	1981	1981	1981	1976	1976	1976

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1969 - 2004	
ANNUAL TOTAL	1993.16		2796.49			
ANNUAL MEAN	5.46		7.64		18.5	
HIGHEST ANNUAL MEAN					69.3	1993
LOWEST ANNUAL MEAN					1.84	1976
HIGHEST DAILY MEAN	516	Jun 23	757	May 23	4810	Sep 8 1989
LOWEST DAILY MEAN	0.17	Dec 12	0.08	Sep 28	0.00	Jul 31 1977
ANNUAL SEVEN-DAY MINIMUM	0.23	Dec 7	0.23	Dec 7	0.00	Jul 29 1977
MAXIMUM PEAK FLOW			1730	May 23	*12900	Sep 8 1989
MAXIMUM PEAK STAGE			12.79	May 23	**19.57	Jun 13 1984
ANNUAL RUNOFF (AC-FT)	3950		5550		13430	
10 PERCENT EXCEEDS	5.6		10		24	
50 PERCENT EXCEEDS	2.5		2.9		3.9	
90 PERCENT EXCEEDS	0.55		0.34		0.84	

e Estimated
* Stage 19.42 ft
** Discharge 4620 ft^3/s

06803525 SALT CREEK BELOW STEVENS CREEK, NEAR WAVERLY, NE

LOCATION—Lat 40°54'18", long 096°35'09", in NW 1/4 SW 1/4 sec.24, T.11 N., R.7 E., Lancaster County, Hydrologic Unit 10200203, at bridge 0.5 mi north of Interstate Highway 80 and 3 mi southwest of Waverly.

DRAINAGE AREA—815 mi^2.

PERIOD OF RECORD—Water years 1971–1992, January 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
OCT													
14...	1030	E143	734	9.2	7.5	79	7.7	4430	12.0	15.0	240	63.6	20.6
NOV													
17...	1000	E103	724	9.6	8.5	85	7.7	6530	15.0	12.0	340	88.4	28.6
DEC													
22...	1100	E97	733	3.0	9.0	73	8.2	6030	5.0	4.0	430	113	34.9
JAN													
15...	1000	E81	732	7.7	11.9	94	7.8	6310	3.3	2.8	370	95.7	30.7
FEB													
11...	1000	E95	736	2.1	11.0	84	8.3	6560	-2.0	2.0	600	154	52.4
MAR													
18...	1000	E170	737	8.9	8.8	79	7.7	3870	8.0	8.5	330	91.4	25.3
APR													
02...	1030	E154	737	1.6	6.5	63	8.5	4330	17.0	12.0	320	86.0	26.0
MAY													
19...	1000	E830	730	3.4	4.8	54	7.7	1110	17.0	18.0	120	36.0	7.93
JUN													
15...	1000	E940	730	6.1	4.7	49	7.6	958	24.0	15.0	130	37.6	8.19
JUL													
21...	1030	E95	729	4.7	6.8	89	8.0	5410	31.0	26.0	350	87.0	32.8
AUG													
16...	1000	E60	735	15	6.0	73	7.5	6830	20.0	22.0	330	88.8	26.3
SEP													
10...	1030	E61	734	16	5.8	68	7.5	7120	21.0	20.0	330	82.8	29.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L (71846)
OCT													
14...	13.7	23	840	88	213	1150	.6	15.8	183	2430	3.30	2.4	1.44
NOV													
17...	16.0	29	1240	88	272	1770	.8	25.0	280	3620	4.93	2.8	2.22
DEC													
22...	17.2	23	1090	84	280	1610	.8	22.9	274	3340	4.55	4.4	4.35
JAN													
15...	16.9	28	1230	87	264	1750	.9	23.7	293	3620	4.92	7.0	6.97
FEB													
11...	32.9	40	2230	88	238	1770	.8	25.5	265	4700	6.40	15	16.4
MAR													
18...	12.7	18	741	82	252	968	.6	20.9	196	2220	3.02	4.2	3.91
APR													
02...	12.3	18	759	83	255	1080	.6	20.2	195	2350	3.19	7.5	7.72
MAY													
19...	9.05	5	117	66	95	161	.4	12.5	53.0	489	.66	5.2	1.22
JUN													
15...	8.95	5	138	68	120	178	.4	12.6	50.3	515	.70	2.6	.16
JUL													
21...	17.3	28	1220	88	266	1430	.8	21.4	253	3240	4.41	2.6	1.75
AUG													
16...	16.8	30	1240	88	272	1850	.9	21.3	314	3750	5.09	1.8	1.21
SEP													
10...	21.3	32	1340	89	247	1960	.9	21.1	320	3950	5.37	6.0	5.77

06803525 SALT CREEK BELOW STEVENS CREEK NEAR WAVERLY, NE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Organic nitro-gen, water, unfltrd mg/L (00605)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Total nitro-gen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	Fecal coli-form, M-FC 0.7u MF col/ 100 mL (31625)
OCT													
14...	1.11	4.33	.98	1.27	.956	.291	1.3	3.52	1.15	1.38	3.7	10.2	6000
NOV													
17...	1.73	9.24	2.09	2.67	1.90	.578	1.1	.957	.31	.55	5.4	7.2	2600
DEC													
22...	3.38	6.73	1.52	1.86	1.11	.337	1.0	.886	.29	.47	6.2	9.0	4800
JAN													
15...	5.41	9.77	2.21	2.54	1.08	.330	1.6	1.18	.38	.57	9.5	6.4	M570
FEB													
11...	12.8	7.22	1.63	1.91	.927	.282	2.7	2.38	.78	1.02	17	8.3	2500
MAR													
18...	3.03	6.20	1.40	1.78	1.24	.376	1.1	.782	.26	.41	5.9	11.5	8000
APR													
02...	5.99	6.83	1.54	1.97	1.39	.423	1.5	.852	.28	.46	9.5	8.8	1200
MAY													
19...	.94	31.9	7.21	7.43	.726	.221	4.3	.411	.13	1.27	13	--	460
JUN													
15...	.12	7.92	1.79	1.89	.315	.096	2.5	.730	.24	.92	4.5	24.7	420
JUL													
21...	1.36	10.2	2.31	2.96	2.14	.650	1.3	4.84	1.58	1.82	5.6	11.1	S320
AUG													
16...	.94	12.2	2.76	3.42	2.16	.657	.86	4.91	1.60	1.72	5.2	6.3	230
SEP													
10...	4.48	11.2	2.53	3.44	2.98	.906	1.5	5.11	1.67	1.77	9.4	7.8	A190

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Fecal strep-tococci KF MF, col/ 100 mL (31673)	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd recover -able, ug/L (01007)	Cadmium water, unfltrd ug/L (01027)	Chrom-ium, water, unfltrd recover -able, ug/L (01034)	Copper, water, unfltrd recover -able, ug/L (01042)	Iron, water, unfltrd recover -able, ug/L (01045)	Lead, water, unfltrd recover -able, ug/L (01051)	Mangan-ese, water, unfltrd recover -able, ug/L (01055)	Mercury water, unfltrd recover -able, ug/L (71900)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover -able, ug/L (01077)	Zinc, water, unfltrd recover -able, ug/L (01092)
OCT													
14...	4200	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
17...	1160	3	87.1	<.2	E.6	6.0	610	2.3	132	<.02	<3	<.3	15
DEC													
22...	660	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
15...	S520	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
11...	460	5	105	<.4	E.5	4.3	880	E1.9	289	<.02	<3	<.5	24
MAR													
18...	1160	--	--	--	--	--	--	--	--	--	--	--	--
APR													
02...	256	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
19...	2320	10	366	.5	15.0	22.4	19600	21.9	871	.04	<3	<.3	99
JUN													
15...	2240	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
21...	S320	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
16...	420	6	96.0	.5	<.8	4.3	280	2.5	235	.36	<3	<.5	27
SEP													
10...	S620	--	--	--	--	--	--	--	--	--	--	--	--

Remark codes used in this table:
< -- Less than
A -- Average value
E -- Estimated value
M -- Presence verified, not quantified
S -- Most probable value

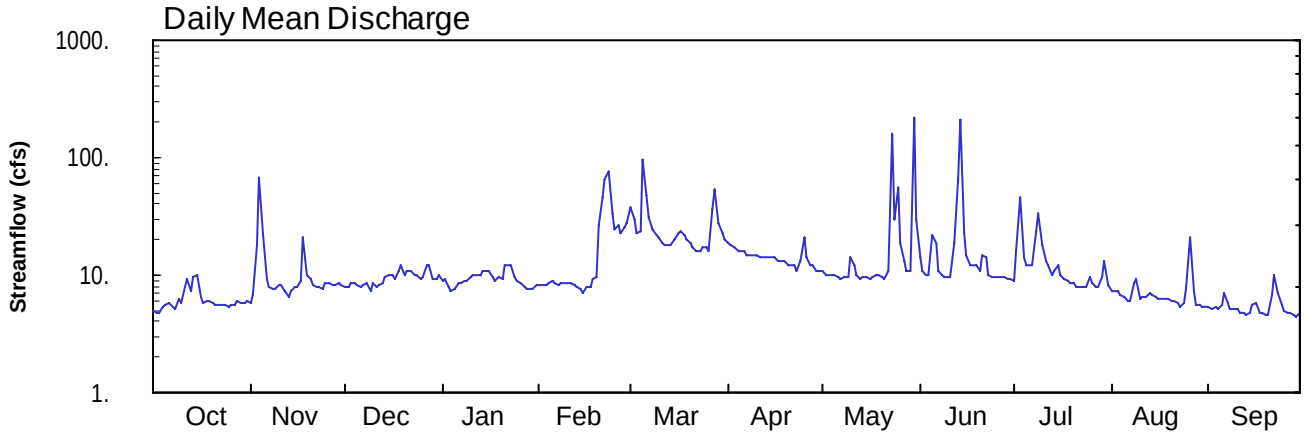
2004 Water Year

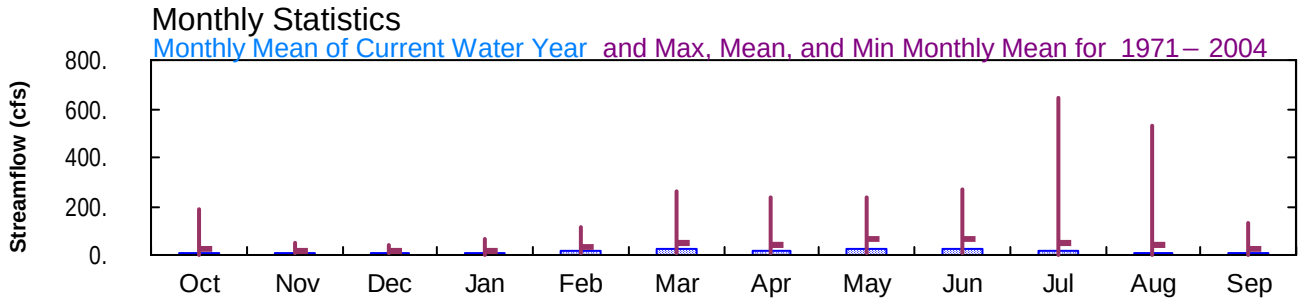
PLATTE RIVER BASIN

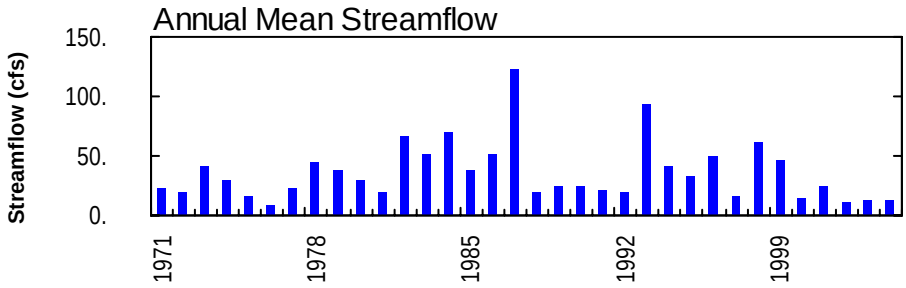
06803530 ROCK CREEK NEAR CERESCO, NEBR.

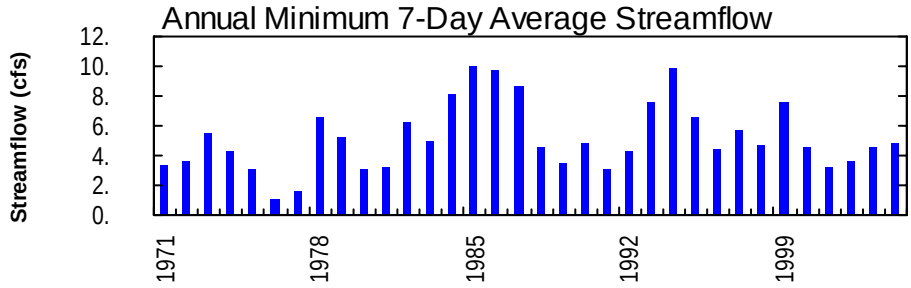
Latitude: 41° 00 ' 56" Longitude: 096° 32 ' 39" Hydrologic Unit Code: 10200203

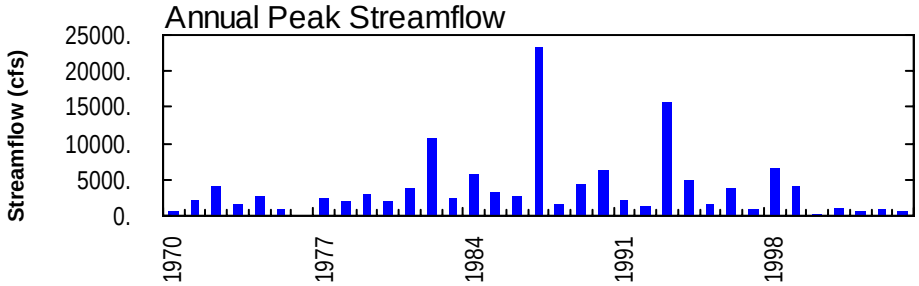
Lancaster County Datum: 1109.18 feet Drainage Area: 120. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06803530 ROCK CREEK NEAR CERESCO, NE

LOCATION—Lat 41°00'56", long 96°32'39", in NE 1/4 NE 1/4 sec.17, T.12 N., R.8 E., Lancaster County, Hydrologic Unit 10200203, on right bank 20 ft downstream from bridge on east-west county road, 5.7 mi southeast of Ceresco, and at mile 7.6.

DRAINAGE AREA—120 mi^2.

PERIOD OF RECORD—April 1970 to current year.

REVISED RECORDS—WDR NE-76-1: 1975(M). WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,109.18 ft above sea level. Apr. 1970 to Feb. 6, 1980 at present site and datum 6.0 ft higher; Feb 7, 1980 to July 13, 1981 at present site and datum 3.0 ft higher; July 14, 1981 to Feb. 29, 1984 on left bank 30 ft downstream from bridge at datum 3.0 ft higher; Mar. 1, 1984 to May 28, 1984 wire weight gage only, at datum 3.0 ft higher; May 28, 1984 to Apr. 4, 1997 at datum 3.0 ft higher. Data collection platform at station.

REMARKS—Record good except for estimated daily discharges, which are poor.

06803530 ROCK CREEK NEAR CERESCO, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	5.8	8.0	9.0	e8.2	38	19	11	14	9.0	7.2	5.4
2	4.8	6.9	8.0	9.4	e8.1	30	18	10	11	16	7.2	5.2
3	4.8	18	8.7	7.8	e8.2	23	17	10	10	46	7.2	5.3
4	5.3	69	8.6	7.4	e8.7	e24	16	10	10	14	6.7	5.1
5	5.5	22	8.2	e7.6	e8.8	e98	16	10	22	12	6.6	5.5
6	5.9	9.2	7.9	e8.4	e8.4	47	16	9.5	19	12	6.1	7.1
7	5.5	7.8	8.3	e8.7	e8.1	31	15	9.4	11	12	6.1	5.8
8	5.1	7.7	8.4	e8.8	e8.4	25	15	9.6	10	24	8.4	5.1
9	6.2	7.5	7.4	e8.9	e8.4	22	15	9.5	9.7	34	9.3	5.1
10	5.9	8.1	e8.5	e9.5	e8.6	21	15	14	9.5	18	6.3	5.1
11	8.0	8.2	e7.9	e10	e8.6	19	14	12	9.5	13	6.4	4.8
12	9.3	7.3	e8.2	e10	e8.3	18	14	10	19	12	6.5	4.8
13	7.3	6.4	e8.4	10	e8.0	18	14	9.4	66	10	7.0	4.6
14	9.7	7.3	9.7	11	e7.5	18	14	9.5	209	11	6.9	4.7
15	10	8.0	9.9	11	e7.1	e20	14	9.6	23	12	6.5	5.5
16	6.6	7.8	9.9	11	e7.9	e23	14	9.2	15	10	6.2	5.9
17	5.7	9.0	9.2	e9.6	e8.0	e24	13	9.5	12	9.3	6.2	4.8
18	6.1	21	11	e8.8	e9.4	e22	13	10	12	8.9	6.3	4.7
19	6.1	10	12	9.7	e9.8	20	13	10	12	8.7	6.3	4.5
20	5.9	9.3	10	e9.2	27	19	12	9.6	11	8.7	6.1	4.6
21	5.6	8.2	11	12	45	17	12	9.1	15	8.0	6.1	6.8
22	5.6	7.8	11	12	66	16	12	11	14	7.8	5.7	10
23	5.6	7.9	10	12	75	16	11	158	10	8.0	5.3	7.1
24	5.6	e7.6	9.9	e9.5	34	17	13	30	9.7	7.8	5.9	5.5
25	5.4	8.5	9.4	e8.9	25	17	21	56	9.6	9.5	7.6	5.0
26	5.5	8.5	9.8	e8.5	27	16	14	19	9.6	8.5	21	4.7
27	5.6	8.2	12	e7.8	23	36	12	13	9.8	7.9	7.3	4.7
28	6.0	e8.3	12	e7.5	26	53	12	11	9.6	7.9	5.5	4.6
29	5.9	8.4	9.4	e7.5	28	28	11	11	9.3	9.8	5.6	4.4
30	5.8	8.2	9.1	e7.7	---	23	11	218	9.1	13	5.4	4.7
31	6.1	---	10	e8.3	---	20	---	30	---	8.1	5.3	---
TOTAL	191.4	337.9	291.8	287.5	534.5	819	426	767.9	620.4	396.9	216.2	161.1
MEAN	6.17	11.3	9.41	9.27	18.4	26.4	14.2	24.8	20.7	12.8	6.97	5.37
MAX	10	69	12	12	75	98	21	218	209	46	21	10
MIN	4.8	5.8	7.4	7.4	7.1	16	11	9.1	9.1	7.8	5.3	4.4
AC-FT	380	670	579	570	1060	1620	845	1520	1230	787	429	320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)

MEAN	21.3	16.0	14.1	14.9	31.4	53.1	39.7	62.1	66.5	50.6	42.6	21.9
MAX	191	45.5	44.8	63.3	116	260	236	237	272	648	527	128
(WY)	1987	1978	1985	1973	1983	1979	1984	1996	1998	1993	1987	1989
MIN	3.85	5.23	5.26	3.93	7.92	8.41	7.40	10.2	5.34	3.07	2.08	3.86
(WY)	1977	1977	1977	1977	1979	1972	1971	1976	1976	1976	1976	1971

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1971 - 2004	
ANNUAL TOTAL	4663.9		5050.6			
ANNUAL MEAN	12.8		13.8		36.2	
HIGHEST ANNUAL MEAN					123	1987
LOWEST ANNUAL MEAN					8.68	1976
HIGHEST DAILY MEAN	249	May 4	218	May 30	11400	Aug 25 1987
LOWEST DAILY MEAN	4.2	Aug 15	4.4	Sep 29	0.25	Jul 13 1976
ANNUAL SEVEN-DAY MINIMUM	4.6	Sep 2	4.8	Sep 24	1.1	Jul 11 1976
MAXIMUM PEAK FLOW			630	May 30	*23300	Aug 25 1987
MAXIMUM PEAK STAGE			6.45	May 30	**20.50	May 22 1998
ANNUAL RUNOFF (AC-FT)	9250		10020		26230	
10 PERCENT EXCEEDS	20		22		43	
50 PERCENT EXCEEDS	8.7		9.4		12	
90 PERCENT EXCEEDS	4.8		5.5		5.8	

e Estimated
* Includes road overflow; stage 19.60 ft, from floodmark
** Discharge 6600 ft^3/s

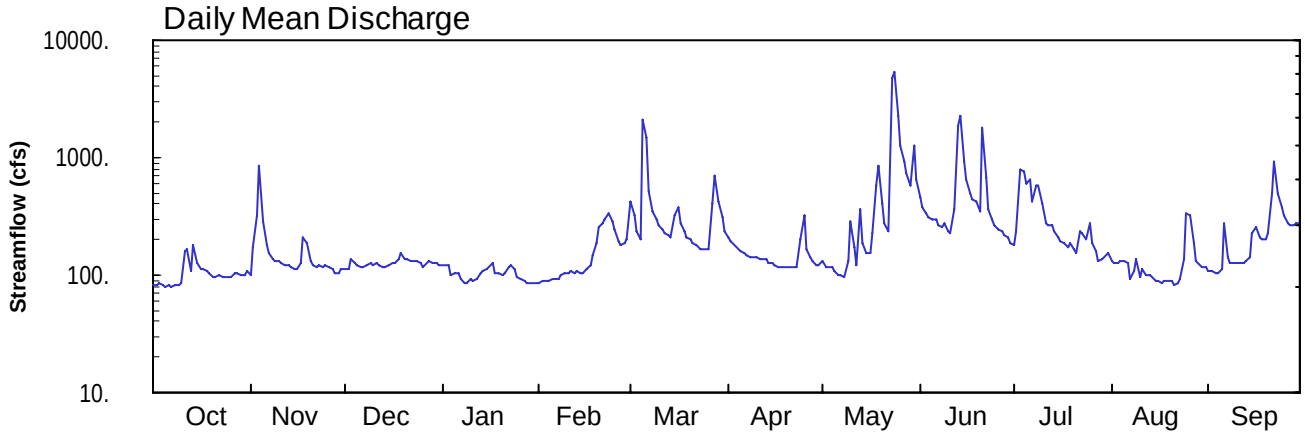
2004 Water Year

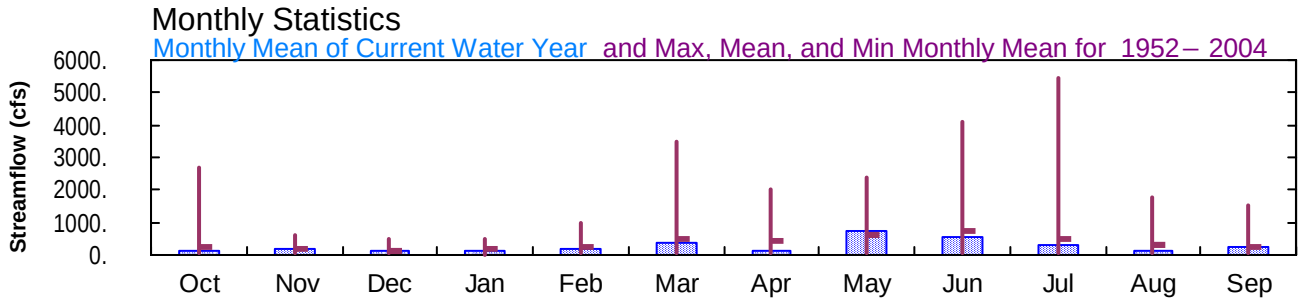
PLATTE RIVER BASIN

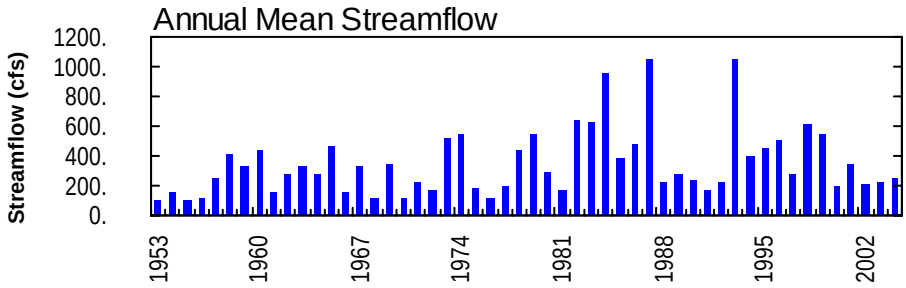
06803555 SALT CREEK AT GREENWOOD, NEBR.

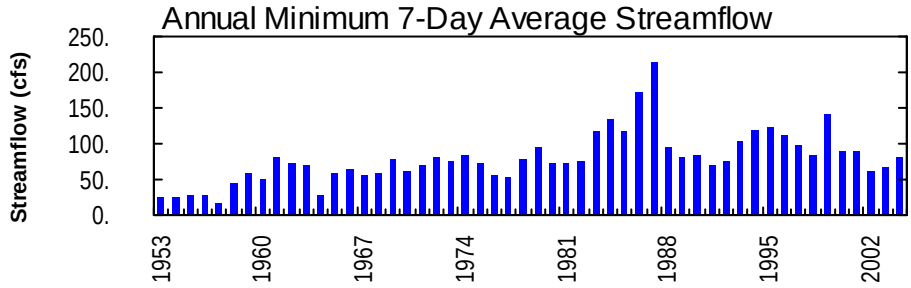
Latitude: 40° 57 ' 55" Longitude: 096° 27 ' 15" Hydrologic Unit Code: 10200203

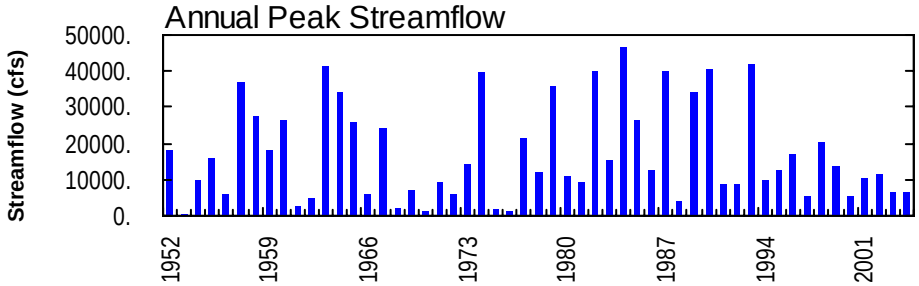
Cass County Datum: 1068.14 feet Drainage Area: 1050. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06803555 SALT CREEK AT GREENWOOD, NE

LOCATION—Lat 40°57'56", long 96°27'01", at center of sec.31, T.12 N., R.9 E., Cass County, Hydrologic Unit 10200203, on right bank just downstream from county road bridge, 0.5 mi west of Greenwood, and at mile 13.0.

DRAINAGE AREA—1,051 mi^2.

PERIOD OF RECORD—November 1951 to current year. Records furnished by Corps of Engineers prior to Oct. 1, 1972.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,066.14 ft above sea level. Datum lowered 2.00 ft Feb. 6, 2002. Prior to Nov. 5, 1964, non-recording gage at same site. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

06803555 SALT CREEK AT GREENWOOD, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	101	111	122	e86	431	211	129	451	182	129	107
2	82	171	113	122	e89	322	193	118	375	236	128	107
3	85	325	139	e120	e89	236	179	119	337	791	125	106
4	82	847	125	e100	e89	205	168	115	312	757	130	106
5	80	284	e122	e102	e93	2120	161	109	296	612	132	114
6	83	179	e119	e104	e94	1460	155	101	303	641	125	278
7	79	151	e118	e92	e93	525	150	100	265	422	92	140
8	83	139	e121	e84	e101	354	143	98	258	571	108	128
9	83	131	e125	e87	e105	301	141	132	277	578	135	127
10	86	130	e121	e91	e106	269	143	290	236	410	98	127
11	158	126	e125	e88	e107	250	139	171	229	272	111	126
12	168	121	e120	e91	e106	229	137	122	366	270	101	126
13	107	120	e118	e102	e109	218	136	361	1900	270	101	131
14	180	115	e118	e109	e106	209	128	184	2280	235	96	141
15	128	114	e123	e113	e106	323	124	155	910	213	89	230
16	111	114	126	e118	e114	373	122	153	643	192	88	253
17	112	124	125	e126	e120	275	115	225	502	187	87	209
18	108	212	137	e103	e148	238	116	584	438	176	89	203
19	102	187	154	e106	e190	212	116	849	424	188	88	199
20	98	131	136	e101	e260	201	118	402	343	169	88	223
21	98	123	136	e106	e280	186	116	281	1790	155	83	487
22	100	119	134	116	e295	177	115	238	665	233	85	908
23	96	122	134	122	e340	169	119	4820	364	223	92	495
24	98	116	132	114	e288	168	199	5460	297	199	138	383
25	98	121	124	e97	e242	165	318	2230	266	279	336	328
26	97	118	119	e91	192	164	166	1250	244	190	324	272
27	103	114	128	e89	181	401	143	918	232	161	187	264
28	102	104	131	e87	184	717	130	729	222	134	132	268
29	99	105	125	e86	198	423	121	583	210	135	122	276
30	101	114	124	e84	---	308	122	1260	189	141	116	279
31	107	---	120	e85	---	240	---	650	---	154	115	---
TOTAL	3195	4978	3903	3158	4511	11869	4444	22936	15624	9376	3870	7141
MEAN	103	166	126	102	156	383	148	740	521	302	125	238
MAX	180	847	154	126	340	2120	318	5460	2280	791	336	908
MIN	79	101	111	84	86	164	115	98	189	134	83	106
AC-FT	6340	9870	7740	6260	8950	23540	8810	45490	30990	18600	7680	14160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2004, BY WATER YEAR (WY)

MEAN	250	177	146	157	259	495	400	597	708	506	310	254
MAX	2681	638	465	520	952	3481	2023	2383	4101	5461	1748	1534
(WY)	1974	1999	1987	1974	1983	1979	1984	1996	1984	1993	1987	1989
MIN	36.4	35.1	37.3	26.2	40.6	51.3	58.1	54.7	65.6	55.6	42.8	52.9
(WY)	1956	1956	1956	1957	1957	1957	1956	1955	1958	1955	1955	1953

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1952 - 2004	
ANNUAL TOTAL	78217		95005			
ANNUAL MEAN	214		260		354	
HIGHEST ANNUAL MEAN					1054	1987
LOWEST ANNUAL MEAN					107	1953
HIGHEST DAILY MEAN	3670	Jun 12	5460	May 24	37100	Jun 13 1984
LOWEST DAILY MEAN	58	Sep 6	79	Oct 7	14	Jan 10 1957
ANNUAL SEVEN-DAY MINIMUM	65	Aug 31	82	Oct 1	17	Jan 10 1957
MAXIMUM PEAK FLOW			6500	May 23	*46800	Jun 13 1984
MAXIMUM PEAK STAGE			11.26	May 23	**26.57	Jul 24 1993
ANNUAL RUNOFF (AC-FT)	155100		188400		256100	
10 PERCENT EXCEEDS	326		423		567	
50 PERCENT EXCEEDS	126		134		145	
90 PERCENT EXCEEDS	85		93		72	

e Estimated
* Stage 26.50 ft, datum then in use
** Datum then in use, discharge 42000 ft^3/s

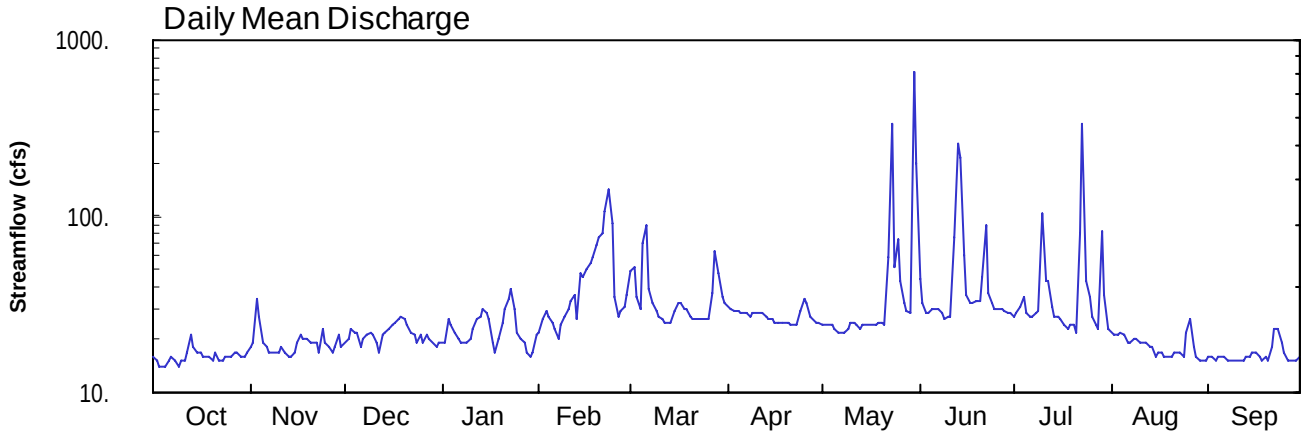
2004 Water Year

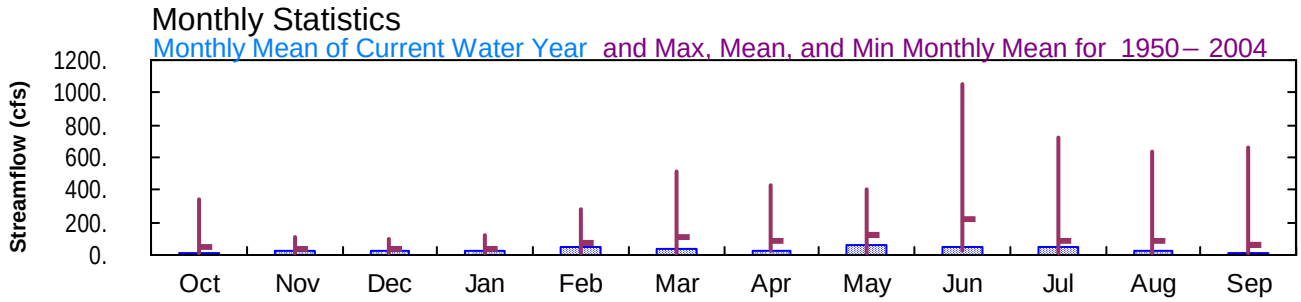
PLATTE RIVER BASIN

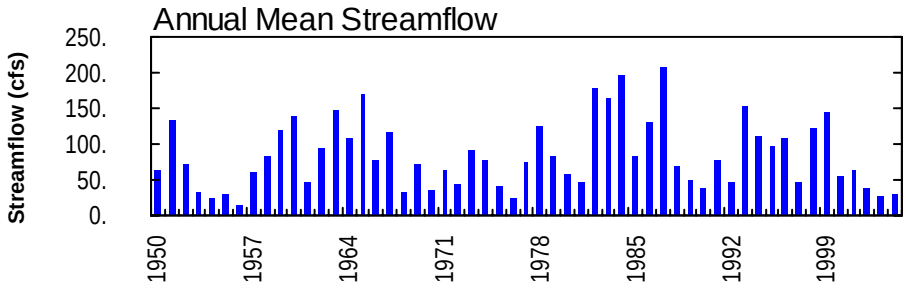
06804000 WAHOO CREEK AT ITHACA, NEBR.

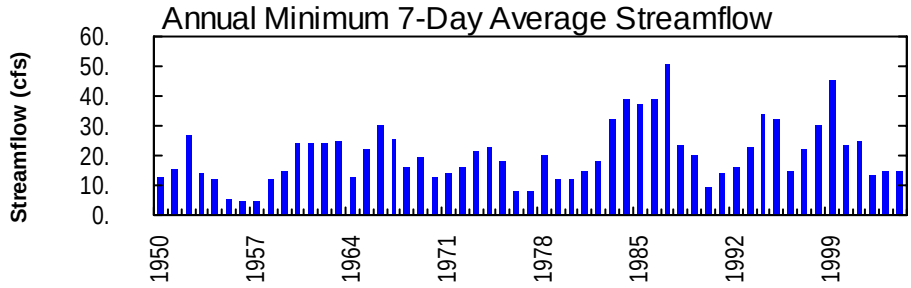
Latitude: 41°08'51" Longitude: 096°32'16" Hydrologic Unit Code: 10200203

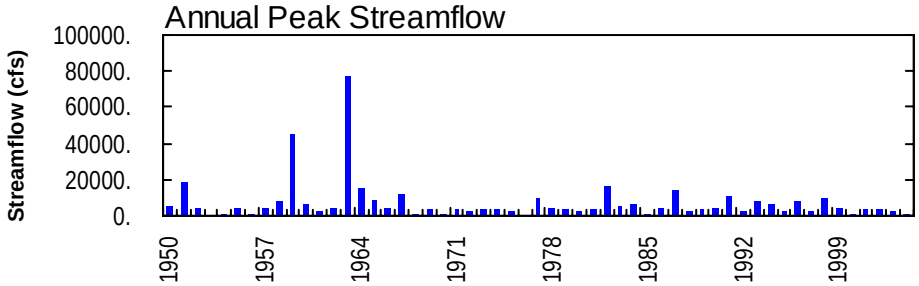
Saunders County Datum: 1110.48 feet Drainage Area: 273. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06804000 WAHOO CREEK AT ITHACA, NE

LOCATION—Lat 41°08'40", long 96°32'10", in NW 1/4 NW 1/4 sec.33, T.14 N., R.8 E., Saunders County, Hydrologic Unit 10200203, on right bank 16 ft downstream from bridge on State Highway 63, 0.5 mi south of Ithaca, and at mile 20.3.

DRAINAGE AREA—273 mi^2, of which 268 mi^2 contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD—October 1949 to current year.

REVISED RECORDS—WDR NE-78-1: 1977(P). WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,110.48 ft above sea level. Prior to Oct. 27, 1959, non-recording gages at same site and datum. Oct. 28, 1959 to Feb. 22, 1961 non-recording gage at site 1.5 mi upstream at datum 8.21 ft higher. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

06804000 WAHOO CREEK AT ITHACA, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e16	e18	e19	e19	e22	49	31	24	44	27	22	16
2	e15	e19	e20	e19	e26	51	30	24	32	28	21	16
3	e14	e34	e23	e26	e29	35	29	24	28	31	21	15
4	e14	e27	e22	e24	e27	30	29	24	28	35	22	16
5	e14	e19	e22	e22	e25	70	28	23	30	28	21	16
6	e15	e18	e18	e20	e23	90	28	22	30	27	19	16
7	e16	e17	e20	e19	e20	39	28	22	30	27	19	15
8	e15	e17	e21	e19	e24	32	27	22	28	28	20	15
9	e14	e17	e22	e19	e27	29	28	23	26	29	20	15
10	e15	e17	e21	e20	e30	27	28	25	27	105	19	15
11	e15	e18	e19	e23	e33	26	28	25	27	43	19	15
12	e17	e17	e17	e26	e36	25	28	24	77	43	19	15
13	e21	e16	e21	e27	e26	25	27	23	257	31	18	16
14	e18	e16	e22	e30	e48	25	26	24	217	27	18	16
15	e17	e17	e23	e28	e45	29	26	24	60	27	16	17
16	e17	e19	e24	e26	e50	32	25	24	36	26	17	17
17	e16	e21	e25	e19	e54	32	25	24	32	24	17	16
18	e16	e20	e26	e17	e59	30	25	24	32	23	16	15
19	e16	e20	e27	e20	e68	30	25	25	33	24	16	16
20	e15	e19	e26	e25	e77	27	25	25	33	24	16	15
21	e17	e19	e24	e30	e81	26	24	24	45	22	17	18
22	e15	e19	e22	e34	e107	26	24	58	90	81	17	23
23	e15	e17	e21	e39	e142	26	24	331	37	331	17	23
24	e16	e23	e19	e30	e92	26	29	52	32	43	16	19
25	e16	e19	e21	e22	35	26	34	74	30	35	22	17
26	e16	e18	e19	e20	27	26	32	43	30	27	26	15
27	e17	e17	e21	e19	29	37	27	32	30	24	18	15
28	e17	e18	e20	e17	31	64	26	29	29	23	16	15
29	e16	e21	e19	e16	36	48	25	28	28	82	15	15
30	e16	e18	e18	e17	---	35	25	655	28	36	15	16
31	e17	---	e19	e21	---	32	---	199	---	23	15	---
TOTAL	494	575	661	713	1329	1105	816	2000	1486	1384	570	489
MEAN	15.9	19.2	21.3	23.0	45.8	35.6	27.2	64.5	49.5	44.6	18.4	16.3
MAX	21	34	27	39	142	90	34	655	257	331	26	23
MIN	14	16	17	16	20	25	24	22	26	22	15	15
AC-FT	980	1140	1310	1410	2640	2190	1620	3970	2950	2750	1130	970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

MEAN	49.2	39.6	34.9	38.6	71.2	116	86.2	119	216	85.6	91.7	67.0
MAX	343	110	96.3	125	276	518	430	401	1051	728	640	663
(WY)	1987	1987	1985	1983	1983	1979	1978	1984	1963	1993	1959	1965
MIN	8.39	11.3	10.1	10.7	13.2	16.6	19.6	16.3	18.6	10.6	9.27	6.95
(WY)	1956	1956	1977	1957	1957	1957	1956	1955	1976	1956	1956	1956

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004	
ANNUAL TOTAL	9904		11622			
ANNUAL MEAN	27.1		31.8		84.5	
HIGHEST ANNUAL MEAN					207	1987
LOWEST ANNUAL MEAN					15.3	1956
HIGHEST DAILY MEAN	781	May 5	655	May 30	22100	Jun 24 1963
LOWEST DAILY MEAN	13	Jan 27	14	Oct 3	3.3	Jun 11 1955
ANNUAL SEVEN-DAY MINIMUM	14	Feb 21	15	Oct 3	4.4	Oct 12 1955
MAXIMUM PEAK FLOW			1150	May 30	77400	Jun 24 1963
MAXIMUM PEAK STAGE			12.06	May 30	22.93	Jun 24 1963
ANNUAL RUNOFF (AC-FT)	19640		23050		61220	
10 PERCENT EXCEEDS	37		43		110	
50 PERCENT EXCEEDS	19		24		35	
90 PERCENT EXCEEDS	15		16		18	

e Estimated

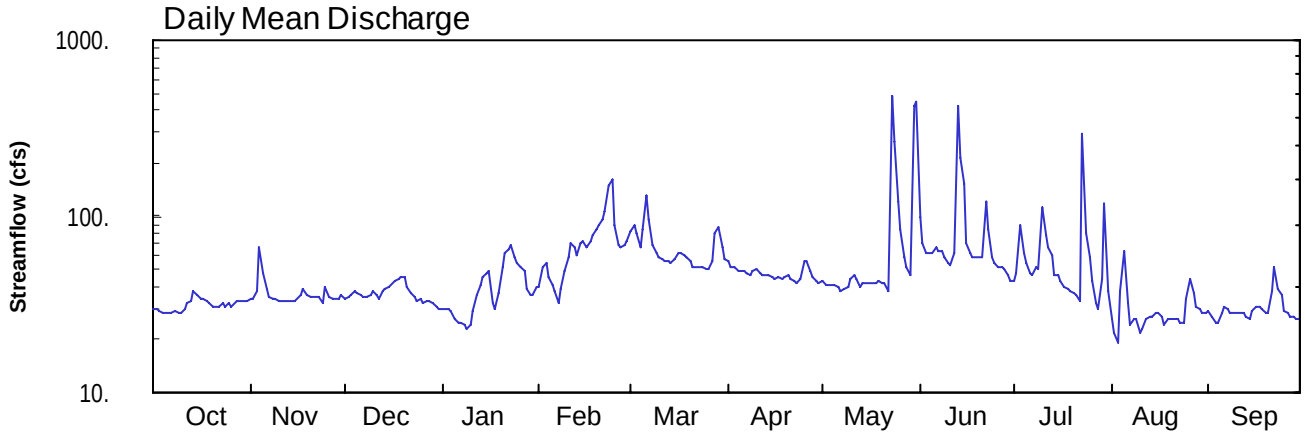
2004 Water Year

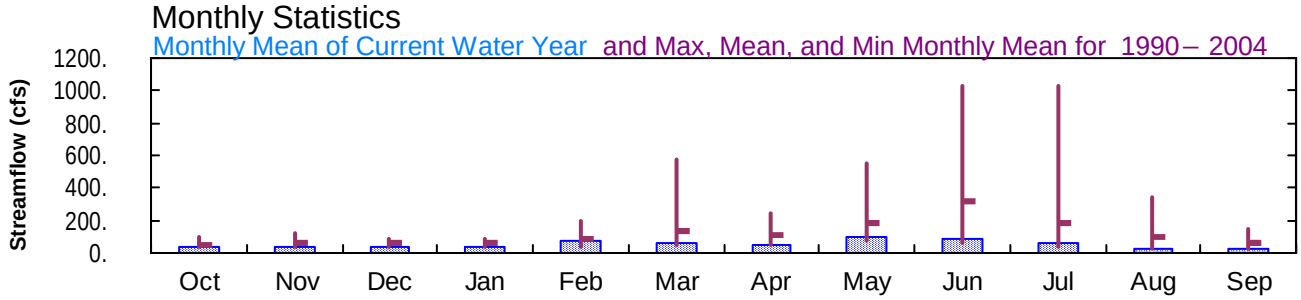
PLATTE RIVER BASIN

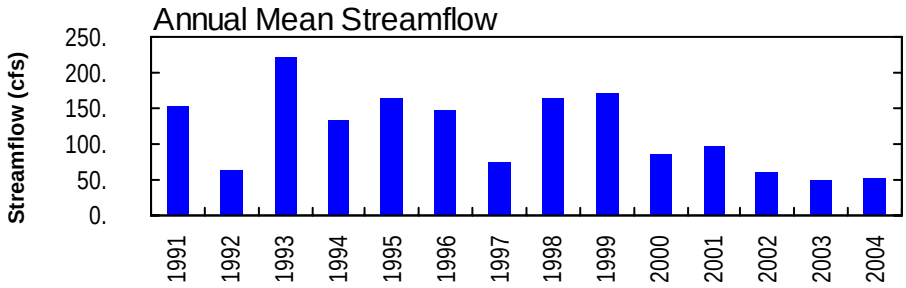
06804700 WAHOO CR AT ASHLAND, NE

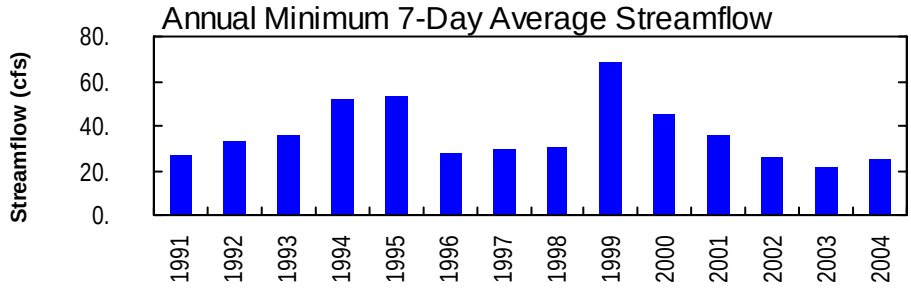
Latitude: 41°03'12" Longitude: 096°22'03" Hydrologic Unit Code: 10200203

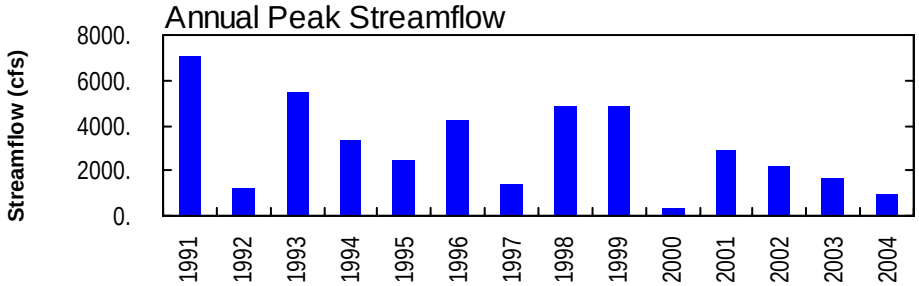
Saunders County Datum: 1048.77 feet Drainage Area: 416. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06804700 WAHOO CREEK AT ASHLAND, NE

LOCATION—Lat 41°03'13", long 96°22'04", in SE 1/4 NE 1/4 sec.35, T.13 N., R.9 E., Saunders County, Hydrologic Unit 10200203, at right upstream side of bridge near end of guard rail on State Highway 63, 1 mi north of Ashland, and at mile 2.6.

DRAINAGE AREA—416 mi^2.

PERIOD OF RECORD—September 1990 to current year.

REVISED RECORDS—WDR NE-99-1: Datum.

GAGE—Water-stage recorder. Datum of gage is 1,048.77 ft above sea level.

REMARKS—Records good except for estimated daily discharges, which are poor.

06804700 WAHOO CREEK AT ASHLAND, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	34	34	30	e40	83	55	43	99	43	26	29
2	30	34	35	30	e51	88	52	41	71	48	22	27
3	29	38	36	30	e54	80	51	41	62	89	19	25
4	28	66	38	e29	e45	66	49	41	62	61	38	25
5	28	48	37	e26	e41	85	49	41	62	54	63	28
6	28	39	36	e25	e38	130	49	40	66	48	e32	31
7	28	35	35	e25	e32	95	48	38	63	46	24	30
8	29	34	35	e24	e39	68	47	39	63	51	26	28
9	28	34	36	e23	e49	62	49	40	58	50	26	28
10	28	33	38	e24	e58	59	50	44	54	112	22	28
11	30	33	e36	e29	e71	57	48	46	53	78	23	28
12	32	33	e34	e36	e67	55	47	44	62	66	26	28
13	33	33	e38	e41	e60	55	47	40	423	60	27	27
14	38	33	e39	e45	e70	54	46	42	218	47	27	26
15	36	33	e40	e48	e72	57	45	42	152	46	28	29
16	34	34	e42	e49	e67	62	44	42	71	43	28	31
17	34	36	e43	e32	e73	62	45	42	61	40	27	31
18	33	39	e44	e30	e78	60	44	42	58	39	24	30
19	32	36	e45	e37	e84	59	45	43	59	38	26	28
20	31	35	45	e52	e90	56	46	42	58	37	26	28
21	31	35	40	e62	e97	52	44	42	58	36	26	38
22	31	35	37	e65	e107	51	43	38	123	33	26	51
23	32	35	35	e68	e150	51	42	478	84	293	25	39
24	31	32	33	e58	160	51	44	265	59	81	25	36
25	32	40	34	e54	88	50	55	123	54	58	34	29
26	31	35	32	e52	68	50	55	84	52	43	44	e28
27	32	34	33	e49	66	55	49	59	52	32	37	27
28	33	34	33	e39	69	81	45	51	50	30	31	27
29	33	34	32	e36	72	86	43	47	46	44	30	26
30	33	36	31	e36	---	66	42	428	43	119	28	26
31	33	---	30	e40	---	57	---	441	---	38	28	---
TOTAL	971	1090	1136	1224	2056	2043	1418	2889	2496	1903	894	892
MEAN	31.3	36.3	36.6	39.5	70.9	65.9	47.3	93.2	83.2	61.4	28.8	29.7
MAX	38	66	45	68	160	130	55	478	423	293	63	51
MIN	28	32	30	23	32	50	42	38	43	30	19	25
AC-FT	1930	2160	2250	2430	4080	4050	2810	5730	4950	3770	1770	1770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2004, BY WATER YEAR (WY)

MEAN	54.4	63.8	56.8	59.0	88.5	135	109	186	313	189	93.1	57.0
MAX	98.2	125	85.9	91.5	199	580	247	552	1031	1032	341	150
(WY)	1994	1999	1999	1995	1997	1993	1999	1995	1991	1993	1998	1993
MIN	31.3	36.3	36.6	37.1	36.3	46.9	47.3	67.5	55.9	34.2	22.6	28.0
(WY)	2004	2004	2003	2003	2003	2003	2004	1997	1992	2003	2003	1990

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1990 - 2004	
ANNUAL TOTAL	17462		19012			
ANNUAL MEAN	47.8		51.9		117	
HIGHEST ANNUAL MEAN					223	1993
LOWEST ANNUAL MEAN					49.9	2003
HIGHEST DAILY MEAN	1000	May 5	478	May 23	7000	Jun 15 1991
LOWEST DAILY MEAN	19	Aug 30	19	Aug 3	19	Aug 30 2003
ANNUAL SEVEN-DAY MINIMUM	21	Aug 26	25	Aug 7	21	Aug 26 2003
MAXIMUM PEAK FLOW			964	May 30	7000	Jun 15 1991
MAXIMUM PEAK STAGE			10.26	May 30	20.50	Jun 15 1991
ANNUAL RUNOFF (AC-FT)	34640		37710		84950	
10 PERCENT EXCEEDS	68		72		164	
50 PERCENT EXCEEDS	37		41		65	
90 PERCENT EXCEEDS	24		28		36	

e Estimated

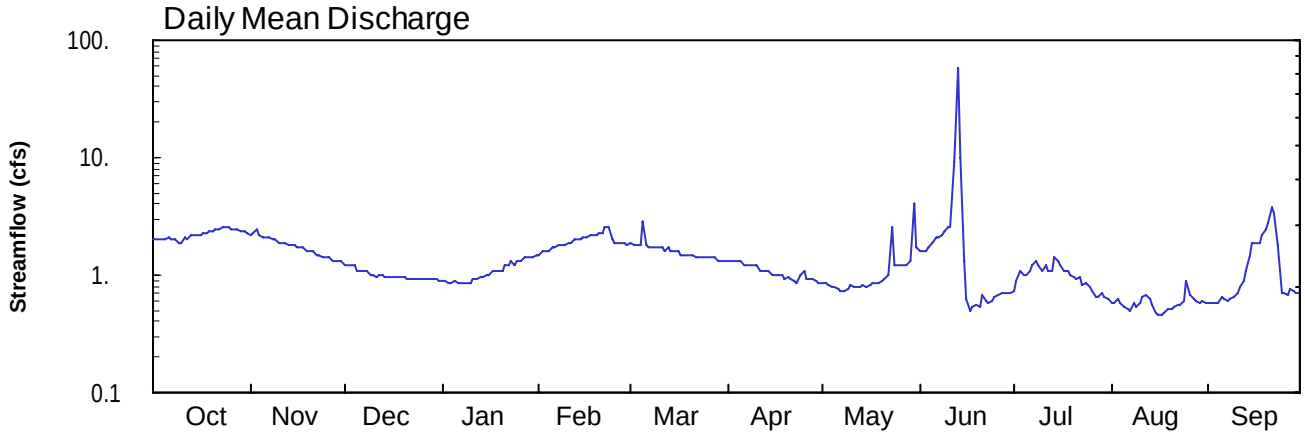
2004 Water Year

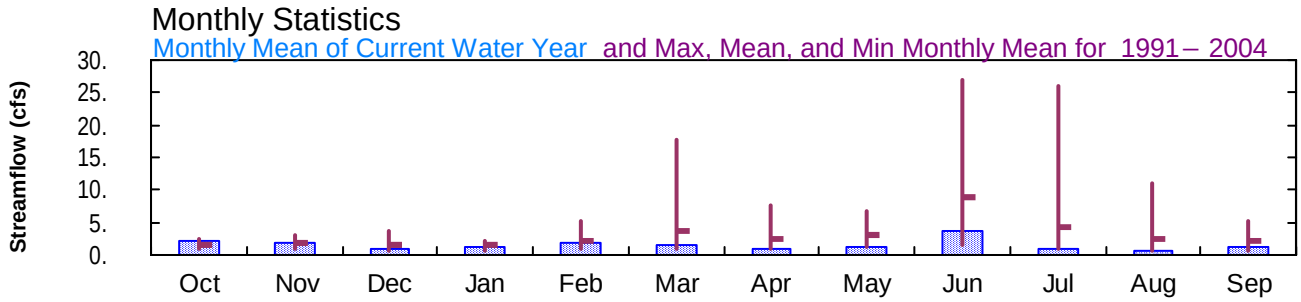
PLATTE RIVER BASIN

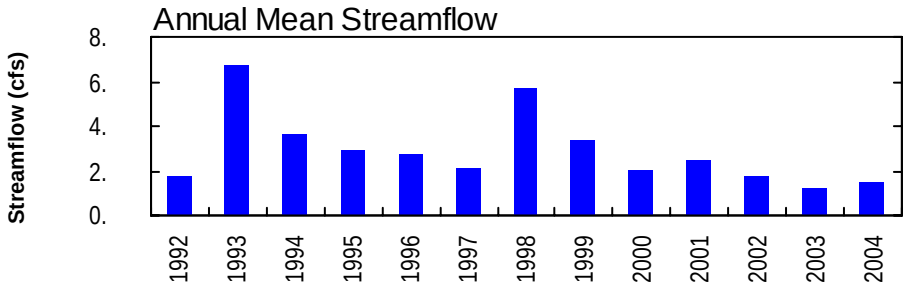
06804900 JOHNSON CR NR MEMPHIS, NE

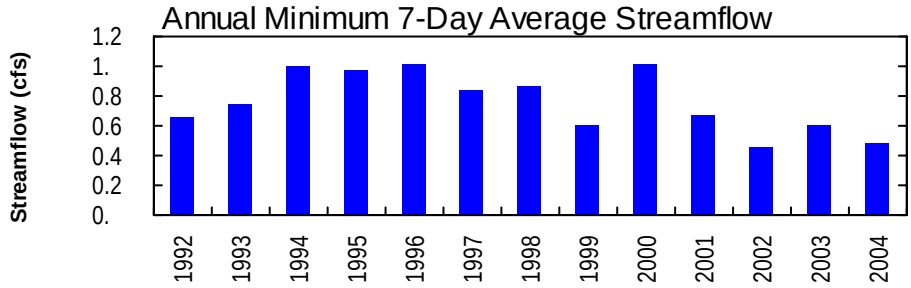
Latitude: 41° 08 ' 47" Longitude: 096° 23 ' 12" Hydrologic Unit Code: 10200203

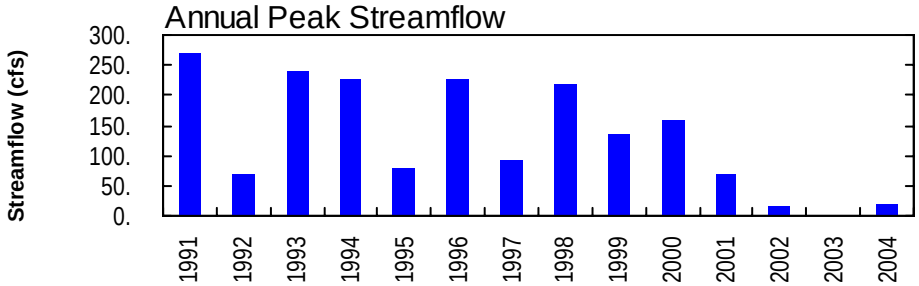
Saunders County Datum: 1070.00 feet Drainage Area: 21.5 mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06804900 JOHNSON CREEK NEAR MEMPHIS, NE

LOCATION—Lat 41°08'48", long 96°23'12", in NW 1/4 NW 1/4 sec.35, T.14 N., R.9 E., Saunders County, Hydrologic Unit 10200203, on left downstream bank on Saunders County road No. 37, 3.5 mi north and 2 mi east of Memphis, and at mile 0.9.

DRAINAGE AREA—21.5 mi^2.

PERIOD OF RECORD—September 1990 to current year.

GAGE—Water-stage recorder. Datum of gage is 1,070.00 ft above sea level. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, which are poor.

06804900 JOHNSON CREEK NEAR MEMPHIS, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.2	1.2	0.88	1.5	1.9	1.3	0.84	1.6	0.72	0.59	0.57
2	2.0	2.3	1.2	0.88	1.6	1.8	1.3	0.84	1.6	0.90	0.59	0.58
3	2.0	2.5	1.2	0.87	1.6	1.8	1.3	0.83	1.6	1.1	0.62	0.58
4	2.0	2.2	1.2	0.87	1.6	1.8	1.3	0.80	1.7	1.0	0.58	0.57
5	2.0	2.1	1.1	0.88	1.7	2.9	1.3	0.79	1.9	1.0	0.54	0.65
6	2.1	2.1	1.1	0.87	1.7	1.8	1.2	0.75	2.1	1.1	0.51	0.62
7	2.0	2.1	1.1	0.85	1.8	1.7	1.2	0.73	2.1	1.2	0.50	0.61
8	2.0	2.0	1.1	0.84	1.8	1.7	1.2	0.74	2.2	1.3	0.58	0.63
9	1.9	2.0	1.0	0.85	1.8	1.7	1.2	0.75	2.4	1.2	0.53	0.64
10	1.9	1.9	1.0	0.87	1.9	1.7	1.2	0.83	2.6	1.1	0.57	0.71
11	2.1	1.9	0.98	0.91	1.9	1.7	1.1	0.80	2.6	1.2	0.66	0.78
12	2.0	1.9	1.0	0.92	2.0	1.6	1.1	0.80	9.2	1.1	0.69	0.89
13	2.2	1.8	0.99	0.96	2.0	1.7	1.1	0.80	57	1.1	0.63	1.1
14	2.2	1.8	0.98	0.98	2.0	1.6	1.1	0.81	10	1.4	0.56	1.5
15	2.2	1.8	0.96	1.0	2.1	1.6	1.0	0.78	1.3	1.3	0.47	1.9
16	2.2	1.7	0.97	1.0	2.1	1.6	1.0	0.81	0.62	1.2	0.45	1.9
17	2.3	1.7	0.97	1.1	2.2	1.5	0.99	0.84	0.50	1.1	0.46	1.9
18	2.3	1.7	0.97	1.1	2.2	1.5	1.0	0.86	0.54	1.1	0.47	2.2
19	2.4	1.6	0.97	1.1	2.2	1.5	0.93	0.86	0.55	0.99	0.51	2.5
20	2.4	1.6	0.95	1.1	2.3	1.5	0.97	0.90	0.54	0.96	0.51	2.8
21	2.5	1.6	0.94	1.2	2.3	1.5	0.94	0.91	0.67	0.94	0.53	3.8
22	2.5	1.5	0.94	1.2	2.6	1.4	0.88	1.0	0.60	0.98	0.56	3.4
23	2.6	1.5	0.94	1.3	2.6	1.4	0.87	2.6	0.59	0.82	0.56	1.8
24	2.6	1.4	0.94	1.2	2.0	1.4	1.0	1.2	0.61	0.87	0.61	0.70
25	2.6	1.4	0.94	1.3	1.9	1.4	1.1	1.2	0.64	0.78	0.90	0.71
26	2.5	1.4	0.91	1.3	1.9	1.4	0.93	1.2	0.67	0.74	0.67	0.68
27	2.5	1.3	0.92	1.4	1.9	1.4	0.91	1.2	0.71	0.65	0.63	0.76
28	2.5	1.3	0.91	1.4	1.9	1.4	0.92	1.2	0.70	0.66	0.61	0.72
29	2.4	1.3	0.91	1.4	1.8	1.3	0.89	1.3	0.70	0.70	0.59	0.71
30	2.4	1.3	0.91	1.4	---	1.3	0.84	4.1	0.70	0.66	0.61	0.70
31	2.3	---	0.90	1.5	---	1.3	---	1.7	---	0.62	0.58	---
TOTAL	69.6	52.9	31.10	33.43	56.9	49.8	32.07	33.77	109.24	30.49	17.87	37.61
MEAN	2.25	1.76	1.00	1.08	1.96	1.61	1.07	1.09	3.64	0.98	0.58	1.25
MAX	2.6	2.5	1.2	1.5	2.6	2.9	1.3	4.1	57	1.4	0.90	3.8
MIN	1.9	1.3	0.90	0.84	1.5	1.3	0.84	0.73	0.50	0.62	0.45	0.57
AC-FT	138	105	62	66	113	99	64	67	217	60	35	75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2004, BY WATER YEAR (WY)

MEAN	1.68	1.73	1.68	1.61	2.17	3.80	2.56	3.05	8.76	4.38	2.39	2.02
MAX	2.56	3.04	3.82	2.24	5.20	17.8	7.67	6.61	26.9	26.1	11.1	5.11
(WY)	1994	1998	1998	1998	1998	1993	1999	2001	1991	1993	1998	1999
MIN	1.02	0.81	0.65	0.68	0.86	1.05	1.07	1.09	1.45	0.98	0.58	0.72
(WY)	1993	2003	2003	2003	2003	2003	2004	2004	2003	2004	2004	1992

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1991 - 2004	
ANNUAL TOTAL	525.32		554.78			
ANNUAL MEAN	1.44		1.52		2.94	
HIGHEST ANNUAL MEAN					6.79	1993
LOWEST ANNUAL MEAN					1.27	2003
HIGHEST DAILY MEAN	7.3	May 8	57	Jun 13	240	Jul 23 1993
LOWEST DAILY MEAN	0.59	Jan 19	0.45	Aug 16	0.36	Jul 22 1995
ANNUAL SEVEN-DAY MINIMUM	0.64	Jan 13	0.49	Aug 15	0.46	Aug 25 2002
MAXIMUM PEAK FLOW			89	Jun 13	269	Jun 14 1991
MAXIMUM PEAK STAGE			7.68	Jun 13	10.49	Jun 1 1994
ANNUAL RUNOFF (AC-FT)	1040		1100		2130	
10 PERCENT EXCEEDS	2.1		2.2		3.5	
50 PERCENT EXCEEDS	1.4		1.2		1.8	
90 PERCENT EXCEEDS	0.78		0.62		0.93	

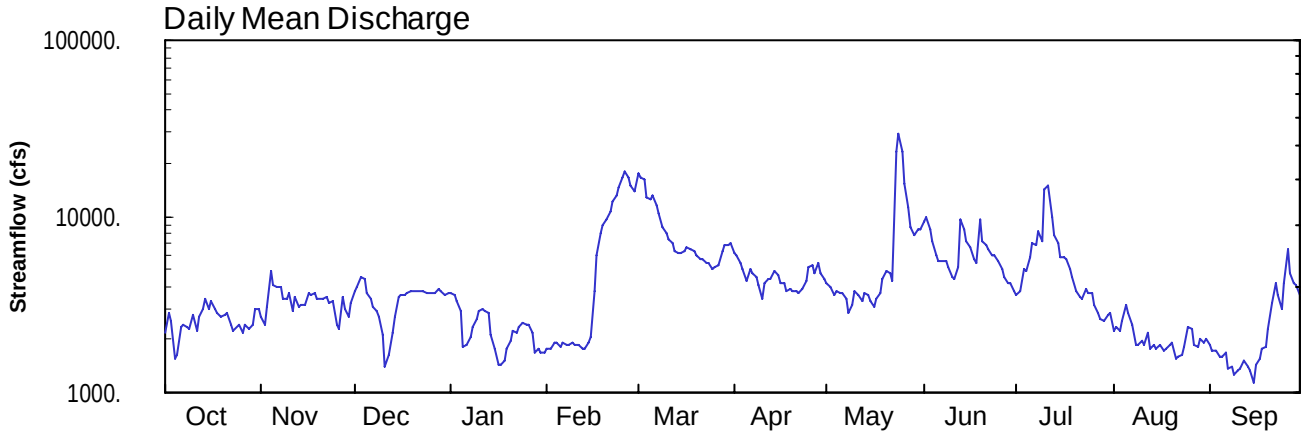
2004 Water Year

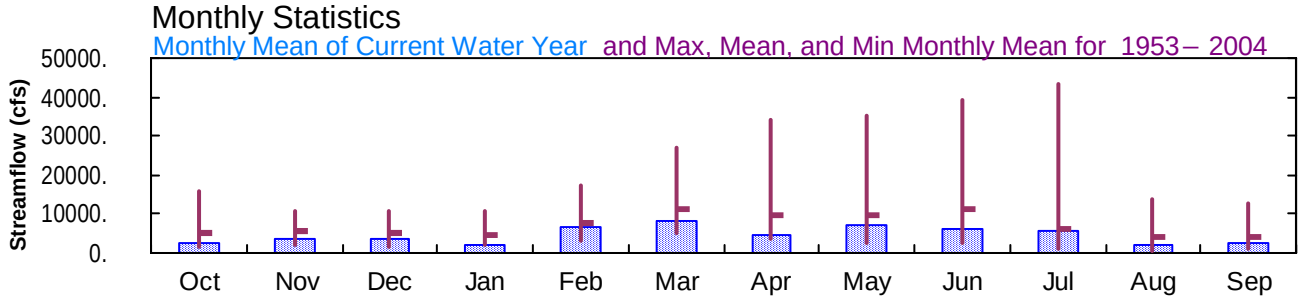
PLATTE RIVER BASIN

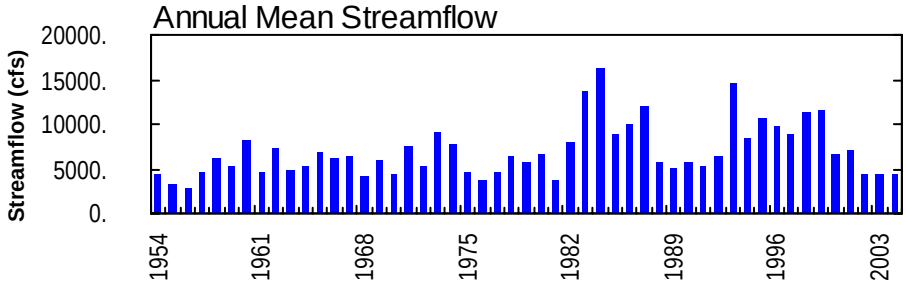
06805500 PLATTE R AT LOUISVILLE NE

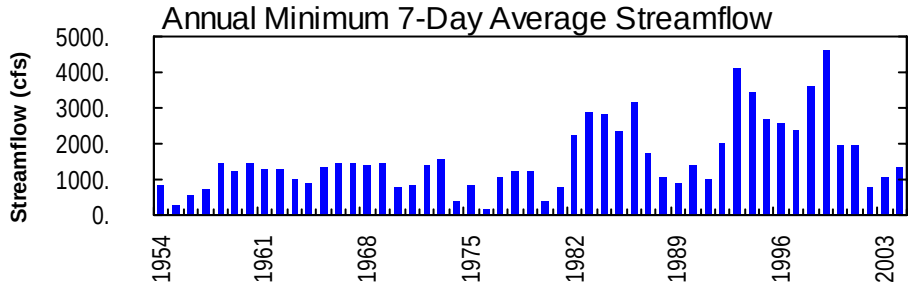
Latitude: 41°00'54" Longitude: 096°09'28" Hydrologic Unit Code: 10200202

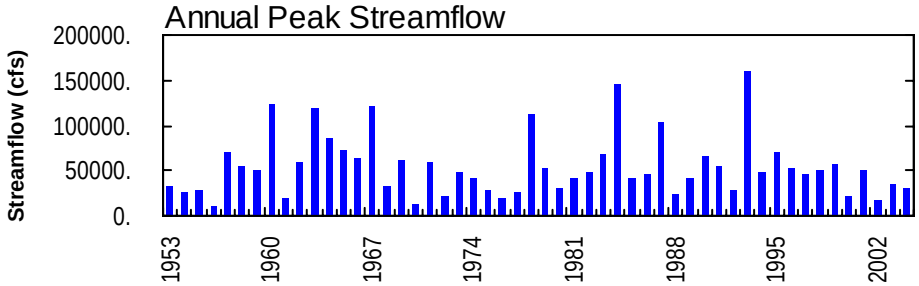
Sarpy County Datum: 1007.10 feet Drainage Area: 85329 mi²











NO PHOTOS AVAILABLE FOR THIS SITE

06805500 PLATTE RIVER AT LOUISVILLE, NE
(National Stream-Quality Accounting Network, NASQAN, station)
(National Water-Quality Assessment, NAWQA, station)

LOCATION—Lat 41°00'55", long 96°09'28", in NW 1/4 NW 1/4 sec.14, T.12 N., R.11 E., Sarpy County, Hydrologic Unit 10200202, on the left bank at the upstream side of bridge on Nebraska Highway 50, 1 mi north of Louisville, and at mile 16.5.

DRAINAGE AREA—85,370 mi^2, approximately, of which about 71,000 mi^2 contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD—May 1953 to current year. October 1961 to September 1973 published as Platte River at South Bend.

REVISED RECORDS—WDR NE-97-1: Drainage area; 1995.

GAGE—Water-stage recorder. Datum of gage is 1,007.10 ft above sea level. Dec. 5, 1961 to Sept. 30, 1973 at site 7 mi upstream at datum 31.43 ft higher. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, 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.

WATER-QUALITY RECORDS

PERIOD OF RECORD—Water years 1972 to current year.

PERIOD OF DAILY RECORD—
SPECIFIC CONDUCTANCE: November 1974 to September 1981.
WATER TEMPERATURES: November 1974 to September 1981.
SUSPENDED SEDIMENT DISCHARGE: October 1971 to September 1981.

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

EXTREMES FOR PERIOD OF DAILY RECORD—
SPECIFIC CONDUCTANCE: Maximum daily, 3,450 microsiemens Sept. 1, 1976; minimum daily, 254 microsiemens Aug. 7, 1981.

WATER TEMPERATURES: Maximum, 36.0°C July 24, 1977, Aug. 19, 1979; minimum 0.0°C on many days during winter periods.

SEDIMENT CONCENTRATIONS: Maximum daily, 11,600 mg/L May 19, 1974; minimum daily, 60 mg/L July 19, 1976.

SEDIMENT LOADS: Maximum daily, 1,180,000 tons Mar. 21, 1978; minimum daily, 64 tons July 19, 1976.

PERIODIC ECOLOGICAL RECORDS

PERIOD OF RECORD—Water years 1993—95, 1997–98, 2002 to current year.

06805500 PLATTE RIVER AT LOUISVILLE, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2180	2710	3780	e3700	e1750	17300	6130	4150	9310	3560	2230	1860
2	2850	2430	3980	e3600	e1750	16700	6020	3940	9900	3800	2350	1720
3	2520	3100	4510	e3300	e1900	16100	5370	3620	8390	4970	2250	1720
4	1540	4870	4460	e2900	e1900	12900	4960	3810	7170	4870	2540	1600
5	1640	4040	3640	e1800	e1800	12400	4340	3630	6060	5800	3130	1610
6	2340	3930	3440	e1850	e1900	13200	4980	3670	5580	7060	2820	1700
7	2410	3990	3030	e2050	e1850	11400	4720	3390	5540	6790	2440	1380
8	2340	3410	e2900	e2350	e1850	10300	4580	2800	5500	8160	1870	1400
9	2310	3420	e2700	e2600	e1900	8680	4060	3110	5120	7310	1860	1270
10	2760	3630	e2150	e2900	e1850	8040	3430	3730	4490	14200	1950	1330
11	2230	2940	e1400	e3000	e1850	7400	4180	3580	4420	15100	1850	1350
12	2700	3520	e1650	e2900	e1750	6970	4360	3350	5120	9890	2190	1520
13	2990	3030	e2200	e2800	e1750	6350	4460	3640	9590	7750	1760	1390
14	3370	3180	e2700	e2150	e1900	6200	4890	3570	8540	6960	1880	1320
15	2970	3180	e3500	e1750	e2050	6210	4620	3270	7270	5800	1750	1140
16	3290	3630	e3600	e1450	e3800	6370	4170	3060	6710	5870	1860	1440
17	2970	3580	e3600	e1450	e6000	6680	4190	3390	5740	5730	1720	1540
18	2860	3670	e3700	e1500	e8000	6580	3810	3700	5390	4970	1750	1750
19	2720	3430	e3800	e1750	e9000	6400	3870	4410	9580	4490	1860	1820
20	2760	3410	e3800	e1950	e9700	6090	3730	4900	7190	3810	1900	2270
21	2830	3380	e3800	e2250	e10700	5770	3770	4710	6890	3510	1570	3250
22	2400	3520	e3800	e2200	e12000	5790	3680	4290	6550	3430	1590	4230
23	2220	3250	e3800	e2350	e13000	5370	3830	23300	6080	3900	1660	3550
24	2350	3330	e3700	e2500	e14700	5450	4270	29200	6040	3720	1800	3010
25	2420	2400	e3700	e2450	e16800	5040	5160	23300	5560	3720	2330	4210
26	2210	2290	e3700	e2400	e18000	5160	5320	15200	5060	3150	2310	6480
27	2410	3530	e3700	e2200	16800	5320	4710	11200	4580	2820	1890	4780
28	2280	2960	e3900	e1700	15000	6290	5360	8720	4200	2600	1840	4190
29	2400	2690	e3800	e1750	13800	6840	4710	7760	4130	2570	2010	4040
30	2990	3230	e3600	e1700	---	6820	4350	8400	3780	2730	1930	3580
31	2990	---	e3700	e1700	---	7060	---	8420	---	2820	2010	---
TOTAL	79250	99680	105740	70950	195050	257180	136030	217220	189480	171860	62900	72450
MEAN	2556	3323	3411	2289	6726	8296	4534	7007	6316	5544	2029	2415
MAX	3370	4870	4510	3700	18000	17300	6130	29200	9900	15100	3130	6480
MIN	1540	2290	1400	1450	1750	5040	3430	2800	3780	2570	1570	1140
AC-FT	157200	197700	209700	140700	386900	510100	269800	430900	375800	340900	124800	143700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

MEAN	5102	5473	4889	4742	7459	11010	9819	9823	11080	6207	4065	4234
MAX	15630	10580	10910	10810	17270	27010	34250	35350	39430	43440	13890	12870
(WY)	1987	1987	1985	1998	1984	1993	1984	1984	1984	1993	1993	1993
MIN	1604	2234	1456	1822	3237	4898	3701	2548	2493	978	519	975
(WY)	1957	1956	1956	1957	1955	1957	1967	1955	1981	1974	1955	1955

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004	
ANNUAL TOTAL	1549551		1657790			
ANNUAL MEAN	4245		4529		7002	
HIGHEST ANNUAL MEAN					16210	1984
LOWEST ANNUAL MEAN					2885	1956
HIGHEST DAILY MEAN	26100	May 6	29200	May 24	138000	Jul 25 1993
LOWEST DAILY MEAN	685	Sep 2	1140	Sep 15	131	Sep 3 1976
ANNUAL SEVEN-DAY MINIMUM	1040	Aug 31	1330	Sep 9	159	Aug 29 1976
MAXIMUM PEAK FLOW			30700	May 23	*160000	Jul 25 1993
MAXIMUM PEAK STAGE			6.66	May 23	**12.45	Mar 30 1960
ANNUAL RUNOFF (AC-FT)	3074000		3288000		5073000	
10 PERCENT EXCEEDS	6800		8390		12800	
50 PERCENT EXCEEDS	3640		3600		5260	
90 PERCENT EXCEEDS	1570		1750		2020	

e Estimated
* Stage 11.90 ft
** Discharge 124000 ft^3/s

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Turbdty white light, det ang 9030 corrctd NTRU (63676)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf 25 degC uS/cm (00095)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon-ate, wat flt incrm. titr., field, mg/L (00452)
OCT													
16...	1230	2.96	2580	53	735	10.9	8.2	719	9.0	10.0	175	213	.0
NOV													
14...	1030	3.00	2520	56	735	12.7	8.6	776	7.5	4.5	171	208	.0
DEC													
18...	1000	3.47	4100	22	738	14.2	8.6	756	3.0	-.1	196	239	.0
FEB													
12...	1100	4.93	13400	13	745	<10.8	8.0	607	-4.0	-.2	186	226	.0
MAR													
11...	1030	4.27	7290	250	741	11.9	8.4	578	2.5	4.5	177	216	.0
APR													
15...	1030	3.77	4630	41	727	11.2	8.7	550	16.8	12.7	181	192	14
MAY													
20...	1000	3.68	4170	440	730	8.7	8.1	562	24.0	20.3	172	204	3
JUN													
10...	1000	3.17	4350	1010	728	7.3	8.5	681	E21.0	24.0	204	231	8
JUL													
15...	1000	3.77	5710	650	733	7.4	8.3	548	22.5	26.0	158	188	2
AUG													
12...	1030	2.90	2410	130	739	10.4	8.6	700	15.0	18.6	173	186	12

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Chlor-ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Partic-ulate nitro-gen, susp, water, mg/L (49570)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Total nitro-gen, wat unf by anal ysis, mg/L (62855)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor-ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
OCT													
16...	95.4	44.2	<.04	.49	.015	.84	.238	.46	1.73	4.7	<.1	4.7	2.2
NOV													
14...	103	44.8	.13	1.79	.030	.48	.310	.45	2.63	3.4	<.1	3.4	2.4
DEC													
18...	88.2	52.0	.21	2.03	.021	.14	.308	.39	2.61	1.3	<.1	1.3	1.7
FEB													
12...	48.1	46.8	.15	1.94	.015	.04	.274	.33	2.29	.5	<.1	.5	1.9
MAR													
11...	30.5	67.8	.22	2.75	.042	.79	.275	.80	4.47	6.4	<.1	6.3	4.8
APR													
15...	39.9	48.7	<.04	.96	.017	.78	.138	.34	1.97	4.3	<.1	4.3	2.8
MAY													
20...	28.8	35.1	<.04	2.47	.062	.68	.197	1.11	4.84	4.0	<.1	3.9	5.5
JUN													
10...	48.0	56.3	<.04	2.84	.012	1.99	.461	1.36	3.14	16.3	.2	16.2	5.0
JUL													
15...	40.0	44.5	<.04	2.16	.008	1.07	.400	.92	3.96	6.8	<.1	6.8	5.1
AUG													
12...	82.3	51.7	<.04	E.04	.012	2.35	.169	.58	2.20	17.0	<.1	16.9	3.3

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673)	Butyl-ate, water, fltrd, ug/L (04028)	Car-baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd 0.7u GF ug/L (82674)	Chlor-pyrifos water, fltrd, ug/L (38933)	cis-Per-methrin water fltrd 0.7u GF ug/L (82687)
OCT													
16...	<.006	E.014	E.005	<.004	<.005	.074	<.050	<.010	<.002	<.041	<.020	<.005	<.006
NOV													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
18...	<.006	E.018	.008	<.005	<.005	.083	<.050	<.010	<.004	<.041	<.020	<.005	<.006
FEB													
12...	<.006	E.023	E.005	<.005	<.005	.086	<.050	<.010	<.004	<.041	<.020	<.005	<.006
MAR													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
15...	<.006	E.017	.044	.007	<.005	.106	<.050	<.010	<.004	<.041	<.020	<.005	<.006
MAY													
20...	<.006	E.293	3.56	.046	<.005	9.49	<.050	<.010	<.004	<.041	<.020	<.010	<.006
JUN													
10...	<.006	E.247	.547	.030	<.005	2.72	<.050	<.010	<.004	<.041	<.020	<.005	<.006
JUL													
15...	<.006	E.083	.064	<.012	<.005	.891	<.050	<.010	<.004	<.041	<.020	<.005	<.006
AUG													
12...	<.006	E.029	.011	<.005	<.005	.354	<.050	<.010	<.004	<.041	<.020	E.004	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Cyana-zine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diazi-non, water, fltrd, ug/L (39572)	Diel-drin, water, fltrd, ug/L (39381)	Disul-foton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal-flur-alin, water, fltrd 0.7u GF ug/L (82663)	Etho-prop, water, fltrd 0.7u GF ug/L (82672)	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169)	Fipro-nil sulfide water, fltrd, ug/L (62167)	Fipro-nil sulfone water, fltrd, ug/L (62168)	Fipro-nil, water, fltrd, ug/L (62166)
OCT													
16...	<.018	<.003	<.004	E.004	<.005	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007
NOV													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
18...	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
FEB													
12...	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
MAR													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
15...	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
MAY													
20...	E.011	<.003	<.012	.019	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
JUN													
10...	E.012	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	E.003	E.005	E.008
JUL													
15...	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
AUG													
12...	<.018	<.003	E.002	<.005	<.009	<.02	<.010	<.009	<.005	<.029	<.013	<.024	<.016

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Mala-thion, water, fltrd, ug/L (39532)	Methyl para-thion, water, fltrd 0.7u GF ug/L (82667)	Metola-chlor, water, fltrd, ug/L (39415)	Metri-buzin, water, fltrd, ug/L (82630)	Moli-nate, water, fltrd 0.7u GF ug/L (82671)	Naprop-amide, water, fltrd 0.7u GF ug/L (82684)	p,p'-DDE, water, fltrd, ug/L (34653)	Para-thion, water, fltrd, ug/L (39542)	Peb-ulate, water, fltrd 0.7u GF ug/L (82669)	Pendi-meth-alin, water, fltrd 0.7u GF ug/L (82683)
OCT													
16...	<.003	<.004	<.035	<.027	<.006	.017	<.006	<.002	<.007	<.003	<.010	<.004	<.022
NOV													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
18...	<.003	<.004	<.035	<.027	<.015	.014	<.006	<.003	<.007	<.003	<.010	<.004	<.022
FEB													
12...	<.003	<.004	<.035	<.027	<.015	.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022
MAR													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
15...	<.003	<.004	<.035	<.027	<.015	.028	<.006	<.003	<.007	<.003	<.010	<.004	<.022
MAY													
20...	<.003	<.004	<.035	<.027	<.015	1.03	.052	<.003	<.007	<.007	<.010	<.004	<.022
JUN													
10...	<.003	<.004	<.035	<.027	<.015	1.22	.007	<.003	<.007	<.003	<.010	<.004	E.012
JUL													
15...	<.003	<.004	<.035	<.027	<.015	.313	<.006	<.003	<.007	<.003	<.010	<.004	<.022
AUG													
12...	<.003	<.004	<.035	<.027	<.015	.056	<.006	<.003	<.007	<.003	<.010	<.004	<.022

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Phorate water fltrd 0.7u GF ug/L (82664)	Prome-ton, water, fltrd, ug/L (04037)	Propy-zamide, water, fltrd 0.7u GF ug/L (82676)	Propa-chlor, water, fltrd, ug/L (04024)	Pro-panil, water, fltrd 0.7u GF ug/L (82679)	Propar-gite, water, fltrd 0.7u GF ug/L (82685)	Sima-zine, water, fltrd, ug/L (04035)	Tebu-thiuron water fltrd 0.7u GF ug/L (82670)	Terba-cil, water, fltrd 0.7u GF ug/L (82665)	Terbu-fos, water, fltrd 0.7u GF ug/L (82675)	Thio-bencarb water fltrd 0.7u GF ug/L (82681)	Tri-allate, water, fltrd 0.7u GF ug/L (82678)	Tri-flur-alin, water, fltrd 0.7u GF ug/L (82661)
OCT													
16...	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
NOV													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
18...	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009
FEB													
12...	<.011	.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009
MAR													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
15...	<.011	.01	<.004	<.025	<.011	<.02	.030	<.02	<.034	<.02	<.010	<.002	<.009
MAY													
20...	<.011	.02	<.004	<.025	<.011	<.02	.026	<.02	<.034	<.02	<.010	<.002	<.009
JUN													
10...	<.011	.01	<.004	<.025	<.011	<.02	.030	<.02	<.034	<.02	<.010	<.002	<.009
JUL													
15...	<.011	.27	<.004	<.025	<.011	<.02	.007	<.02	<.034	<.02	<.010	<.002	<.009
AUG													
12...	<.011	.01	<.004	<.025	<.011	<.02	E.004	<.02	<.034	<.02	<.010	<.002	<.009

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT		
16...	58	139
NOV		
14...	--	178
DEC		
18...	7	395
FEB		
12...	92	30
MAR		
11...	--	1330
APR		
15...	26	254
MAY		
20...	--	1330
JUN		
10...	95	846
JUL		
15...	--	810
AUG		
12...	--	--

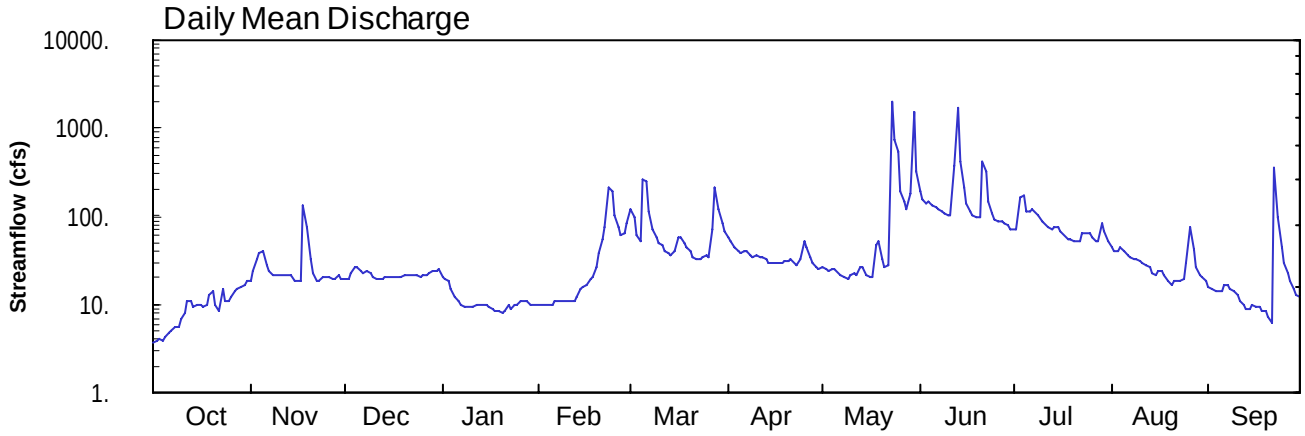
Remark codes used in this table:
< -- Less than
E -- Estimated value

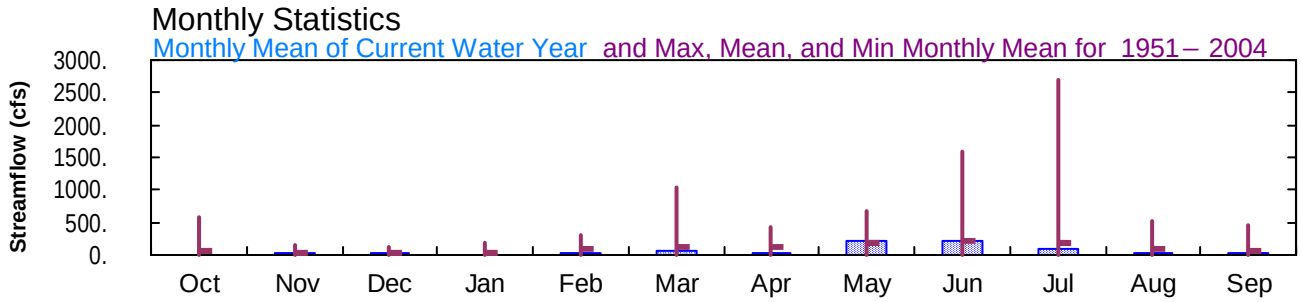
ECOLOGICAL DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

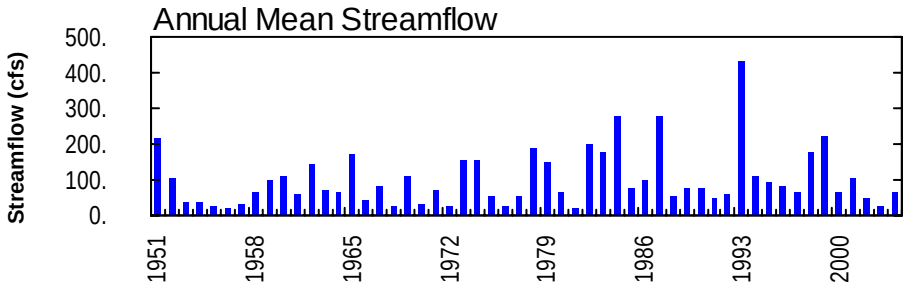
Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Biomass peri- phyton, ashfree drymass g/m2 (49954)	Peri- phyton biomass ash weight, g/m2 (00572)	Peri- phyton biomass dry weight, g/m2 (00573)	Biomass chloro- phyll ratio, peri- phyton, number (70950)	Pheo- phytin a, peri- phyton, mg/m2 (62359)	Chloro- phyll a peri- phyton, chromo- fluoro, mg/m2 (70957)
AUG										
12...	1200	8.6	700	18.6	17.7	200	221.5	2010	9.8	8.8

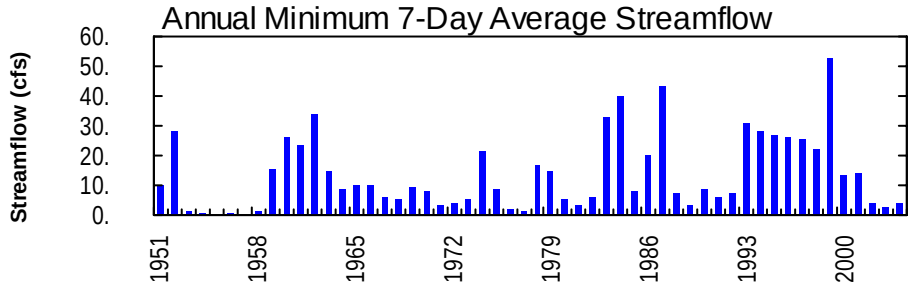
06806500 WEEPING WATER CREEK AT UNION, NEBR.

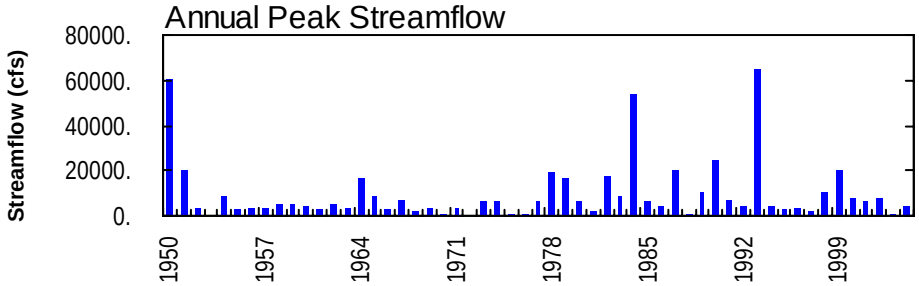
Latitude: 40° 47 ' 38" Longitude: 095° 54 ' 41" Hydrologic Unit Code: 10240001
Cass County Datum: 926.72 feet Drainage Area: 241. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06806500 WEEPING WATER CREEK AT UNION, NE

LOCATION—Lat 40°47'35", long 95°54'40", in SW 1/4 NW 1/4 sec.36, T.10 N., R.13 E., Cass County, Hydrologic unit 10240001, on left bank near downstream side of bridge on U.S. Highways 73 and 75, 1.5 mi southeast of Union, 2.8 mi downstream from South Branch Weeping Water Creek, and at mile 6.2.

DRAINAGE AREA—241 mi^2.

PERIOD OF RECORD—February 1950 to current year.

REVISED RECORDS—WSP 2118: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 926.72 ft above sea level. Prior to May 14, 1951, non-recording gage at site 2 mi upstream at different datum. May 15, 1951 to Aug. 22, 1968 water-stage recorder for stages above 7.9 ft and non-recording gage, Aug. 23, 1968 to Aug. 22, 1980 water-stage recorder on downstream side of bridge pier, Aug. 23, 1980 to Nov. 4, 1980 at present site, all at datum 3.00 ft higher. Nov. 5, 1980 to Aug. 23, 1984 at present site and datum. Aug. 24, 1984 to Mar. 5, 1986 on left bank 200 ft upstream at present datum. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, which are poor.

06806500 WEEPING WATER CREEK AT UNION, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	18	19	20	e10	120	57	26	192	70	44	16
2	3.8	24	19	19	e10	95	51	25	158	72	40	15
3	4.1	33	23	18	e10	61	45	24	140	160	40	14
4	3.9	39	26	e15	e10	53	41	25	147	175	45	14
5	4.4	40	26	e12	e10	265	39	25	132	114	40	14
6	4.7	28	24	e11	e11	245	41	23	126	112	37	17
7	5.1	24	23	e10	e11	114	41	21	123	119	34	17
8	5.7	22	24	e9.6	e11	73	36	20	115	108	33	15
9	5.5	21	23	e9.6	e11	58	34	19	106	105	33	14
10	7.0	22	e20	e9.2	e11	50	36	22	104	89	31	13
11	8.1	22	e19	e9.5	e11	46	35	23	102	80	30	11
12	11	21	e19	e9.8	e11	41	35	21	372	76	28	10
13	11	21	e19	e10	e12	38	33	27	1730	71	26	9.1
14	9.3	22	e20	e10	e15	37	30	26	420	75	23	8.9
15	10	18	e20	e10	e16	40	29	22	210	76	21	10
16	9.7	18	e20	e9.4	e17	58	30	20	138	66	24	9.5
17	9.6	18	e20	e8.8	e19	57	29	20	112	60	24	9.3
18	10	136	e20	e8.6	e20	49	29	46	102	55	21	8.5
19	13	77	e20	e8.3	e26	44	31	51	98	56	18	8.3
20	14	32	e21	8.1	38	40	31	33	97	52	17	7.3
21	10	23	e21	8.6	55	35	33	27	425	51	18	6.1
22	8.6	18	e21	9.8	75	32	30	28	326	53	18	350
23	15	18	e21	8.7	214	33	28	1980	146	63	18	98
24	11	20	e21	10	194	34	33	748	109	65	19	45
25	11	20	e20	9.8	103	37	51	531	94	64	30	30
26	12	20	e21	11	75	35	45	187	87	58	76	23
27	14	19	e22	e11	60	70	34	146	86	53	42	18
28	15	19	e23	e11	63	214	30	122	83	52	27	15
29	16	22	e24	e10	83	118	26	179	78	83	22	13
30	17	19	24	e10	---	85	25	1540	73	67	20	12
31	18	---	25	e10	---	68	---	327	---	51	18	---
TOTAL	301.1	854	668	335.8	1212	2345	1068	6334	6231	2451	917	851.0
MEAN	9.71	28.5	21.5	10.8	41.8	75.6	35.6	204	208	79.1	29.6	28.4
MAX	18	136	26	20	214	265	57	1980	1730	175	76	350
MIN	3.6	18	19	8.1	10	32	25	19	73	51	17	6.1
AC-FT	597	1690	1320	666	2400	4650	2120	12560	12360	4860	1820	1690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	59.4	45.4	39.5	40.6	80.6	125	111	178	202	179	89.6	66.6
MAX	579	148	136	177	301	1049	437	678	1603	2688	507	470
(WY)	1987	1974	1987	1974	1971	1979	1999	1987	1984	1993	1987	1989
MIN	0.55	1.26	2.09	2.01	4.16	7.57	4.60	3.15	2.39	1.49	0.70	2.21
(WY)	1957	1957	1957	1957	1957	1956	1956	1956	1956	1954	1955	1976

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	8672.0		23567.9			
ANNUAL MEAN	23.8		64.4		101	
HIGHEST ANNUAL MEAN					433	1993
LOWEST ANNUAL MEAN					19.9	1956
HIGHEST DAILY MEAN	414	May 9	1980	May 23	34000	Jul 23 1993
LOWEST DAILY MEAN	1.8	Sep 4	3.6	Oct 1	0.10	Sep 10 1955
ANNUAL SEVEN-DAY MINIMUM	2.5	Sep 3	4.2	Oct 1	0.13	Sep 9 1955
MAXIMUM PEAK FLOW			3990	Jun 13	65100	Jul 23 1993
MAXIMUM PEAK STAGE			17.88	Jun 13	30.97	Jul 23 1993
ANNUAL RUNOFF (AC-FT)	17200		46750		73530	
10 PERCENT EXCEEDS	34		116		167	
50 PERCENT EXCEEDS	23		25		39	
90 PERCENT EXCEEDS	4.4		9.8		9.4	

e Estimated

06807000 MISSOURI RIVER AT NEBRASKA CITY, NE

LOCATION.--Lat 40°40'55", long 95°50'48", in NW¼ NE¼ sec.9, T.8 N., R.14 E., Otoe County, Hydrologic Unit 10240001, on right bank 1.0 mi upstream from Highway 2 Bridge at Nebraska City, and at mile 562.6.

DRAINAGE AREA.--410,000 mi^2, approximately. The 3,959 mi^2 in Great Divide basin are not included.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1929 to current year. Gage-height records collected in this vicinity from August 1878 to December 1899 are contained in reports of Missouri River Commission.

REVISED RECORDS.--WSP 761: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 905.36 ft above NGVD of 1929, supplementary adjustment of 1954. See WSP 1918 or 1919 for history of changes prior to Apr. 1, 1963.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by upstream main-stem reservoirs. Fort Randall Dam was completed in July 1952, with storage beginning in December 1952. Gavins Point Dam was completed in July 1955, with storage beginning in December 1955. U.S. Army Corps of Engineers rain gage and satellite data collection platform at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 414,000 ft^3/s Apr. 19, 1952; maximum gage height, 27.66 ft Apr. 18, 1952; minimum discharge, 1,600 ft^3/s Dec. 31, 1946 (discharge measurement); minimum gage height observed, -0.28 ft Dec. 24, 1960, result of freezeup.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30,000	32,600	17,000	20,200	17,900	37,100	33,600	30,600	48,900	39,300	33,600	29,400
2	30,000	32,800	18,200	19,800	18,800	41,100	31,500	30,300	49,800	39,100	33,200	29,000
3	30,400	33,400	19,200	19,800	18,600	39,900	30,100	30,700	47,900	42,100	33,300	28,900
4	30,100	36,400	19,700	20,200	19,800	37,200	29,100	32,300	48,900	42,700	38,100	29,000
5	29,700	35,800	19,300	18,500	20,800	36,900	28,500	33,500	47,600	46,200	36,200	29,400
6	29,800	34,800	18,400	16,600	20,600	37,500	28,000	33,200	46,100	45,500	34,000	30,800
7	30,400	34,800	17,700	15,300	19,200	38,000	28,400	33,400	46,900	45,000	33,600	30,100
8	30,200	34,300	16,900	15,000	19,100	34,600	28,500	33,500	46,900	45,200	33,100	29,700
9	30,400	33,900	17,400	15,400	19,700	31,500	28,600	33,600	45,800	47,300	33,100	29,200
10	30,600	33,900	18,000	16,800	19,100	29,100	29,100	34,400	44,700	49,200	33,100	29,100
11	31,600	34,000	16,100	18,300	19,200	27,300	28,900	36,600	43,800	51,900	32,700	29,300
12	32,100	33,500	16,000	19,000	20,400	25,300	29,600	36,500	44,700	49,500	32,400	29,800
13	32,200	33,400	15,500	19,300	20,800	23,800	30,100	35,600	53,300	46,400	32,600	29,900
14	33,300	33,300	16,500	20,100	20,300	22,200	30,100	35,800	48,400	45,300	32,300	29,800
15	32,500	33,200	18,600	21,200	19,300	21,400	29,800	35,500	47,300	42,800	32,200	30,100
16	32,000	33,000	20,100	20,500	18,800	22,400	29,300	33,400	46,300	43,000	32,000	32,500
17	32,200	33,500	20,700	21,300	19,500	22,700	29,200	34,700	45,800	42,400	31,700	36,100
18	31,600	34,600	20,700	21,900	18,600	23,100	29,800	35,000	54,700	40,000	31,400	39,600
19	31,500	33,600	20,400	21,200	18,500	22,100	29,400	34,000	54,600	38,300	31,200	39,500
20	31,400	32,900	20,300	19,900	19,300	21,300	29,700	36,000	51,000	37,400	31,200	37,500
21	31,700	30,800	21,100	20,200	20,100	21,400	30,300	35,900	50,700	36,500	30,900	37,900
22	32,000	28,200	20,700	20,500	20,700	22,200	30,300	34,700	50,700	39,000	29,900	40,900
23	31,700	26,200	19,700	21,100	22,200	24,700	31,000	53,700	49,000	37,900	29,400	39,000
24	31,700	23,800	19,400	21,400	25,900	27,000	31,500	73,800	46,300	36,200	29,500	38,500
25	31,700	21,100	19,100	21,800	27,100	28,300	33,100	80,000	45,100	35,200	30,600	38,900
26	31,400	18,200	18,700	22,900	25,900	28,300	33,300	71,700	43,500	34,600	31,700	41,500
27	31,400	16,700	19,000	21,700	26,500	29,700	33,500	61,600	42,500	33,900	30,300	40,900
28	31,600	17,600	20,000	19,900	27,400	34,200	32,700	54,000	41,300	33,600	29,700	39,000
29	31,800	17,100	21,600	19,000	33,400	35,000	32,200	51,700	40,200	33,600	29,700	37,400
30	32,000	16,500	22,000	16,300	---	35,800	30,900	53,200	39,900	33,800	29,600	36,400
31	32,600	---	21,300	16,100	---	34,900	---	48,100	---	34,000	29,300	---
TOTAL	971,600	893,900	589,300	601,200	617,500	916,000	910,100	1,297,000	1,412,600	1,266,900	991,600	1,019,100
MEAN	31,340	29,800	19,010	19,390	21,290	29,550	30,340	41,840	47,090	40,870	31,990	33,970
MAX	33,300	36,400	22,000	22,900	33,400	41,100	33,600	80,000	54,700	51,900	38,100	41,500
MIN	29,700	16,500	15,500	15,000	17,900	21,300	28,000	30,300	39,900	33,600	29,300	28,900
AC-FT	1,927,000	1,773,000	1,169,000	1,192,000	1,225,000	1,817,000	1,805,000	2,573,000	2,802,000	2,513,000	1,967,000	2,021,000
CFSM	0.08	0.07	0.05	0.05	0.05	0.07	0.07	0.10	0.11	0.10	0.08	0.08
IN.	0.09	0.08	0.05	0.05	0.06	0.08	0.08	0.12	0.13	0.11	0.09	0.09

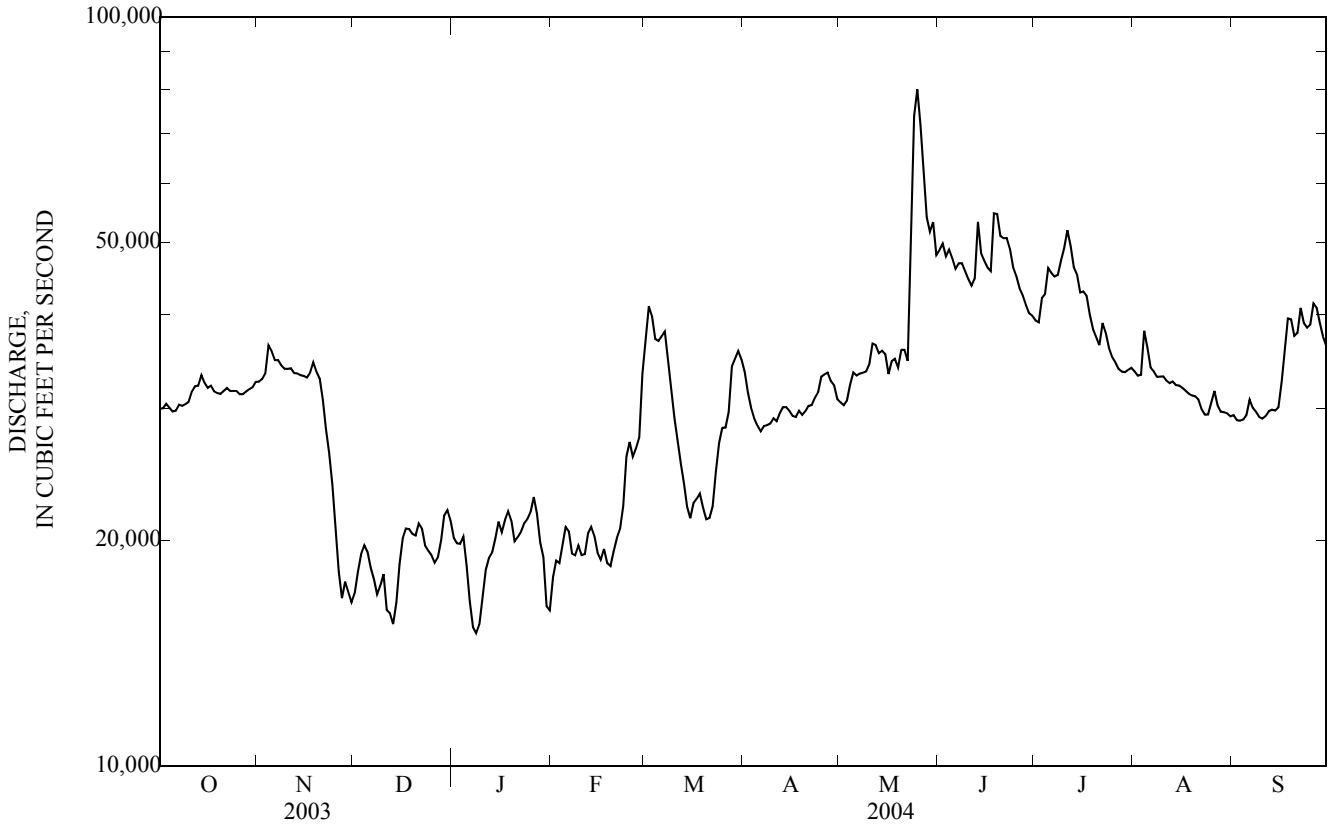
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

MEAN	42,480	38,730	25,390	21,440	26,370	37,500	47,210	47,490	51,820	46,000	42,160	42,160
MAX	76,760	79,410	52,410	39,970	48,630	66,730	98,960	90,280	117,500	116,700	71,540	73,410
(WY)	(1998)	(1998)	(1987)	(1987)	(1983)	(1983)	(1997)	(1997)	(1984)	(1993)	(1996)	(1997)
MIN	22,420	14,380	10,510	10,160	12,780	15,310	21,850	32,470	33,530	28,830	28,040	32,150
(WY)	(1962)	(1962)	(1956)	(1957)	(1957)	(1957)	(1957)	(1955)	(1958)	(2002)	(2003)	(2003)

06807000 MISSOURI RIVER AT NEBRASKA CITY, NE—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004	
ANNUAL TOTAL	10,972,200		11,486,800			
ANNUAL MEAN	30,060		31,380		39,090	
HIGHEST ANNUAL MEAN					66,450	1997
LOWEST ANNUAL MEAN					25,370	1957
HIGHEST DAILY MEAN	62,900	May 6	80,000	May 25	188,000	Jul 25, 1993
LOWEST DAILY MEAN	15,500	Jan 18	15,000	Jan 8	4,320	Jan 11, 1957
ANNUAL SEVEN-DAY MINIMUM	16,400	Jan 13	16,600	Jan 5	5,590	Nov 29, 1955
MAXIMUM PEAK FLOW			82,000	May 25	196,000	Jul 23, 1993
MAXIMUM PEAK STAGE			16.73	May 25	27.19	Jul 23, 1993
INSTANTANEOUS LOW FLOW			14,600	Jan 8		
ANNUAL RUNOFF (AC-FT)	21,760,000		22,780,000		28,320,000	
ANNUAL RUNOFF (CFSM)	0.073		0.077		0.095	
ANNUAL RUNOFF (INCHES)	1.00		1.04		1.30	
10 PERCENT EXCEEDS	42,000		45,600		61,200	
50 PERCENT EXCEEDS	31,000		31,400		36,800	
90 PERCENT EXCEEDS	18,600		19,100		18,000	

a Post regulation.



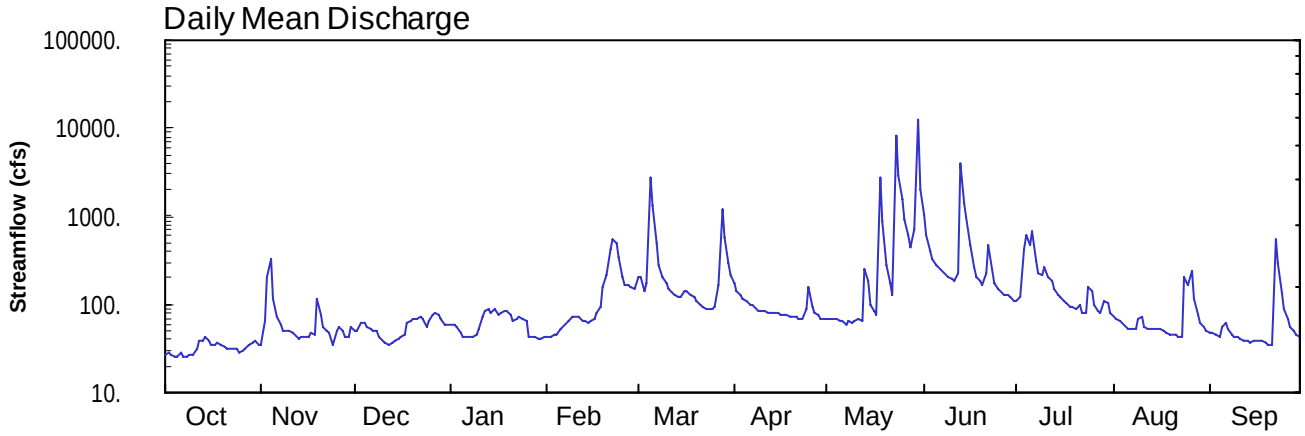
2004 Water Year

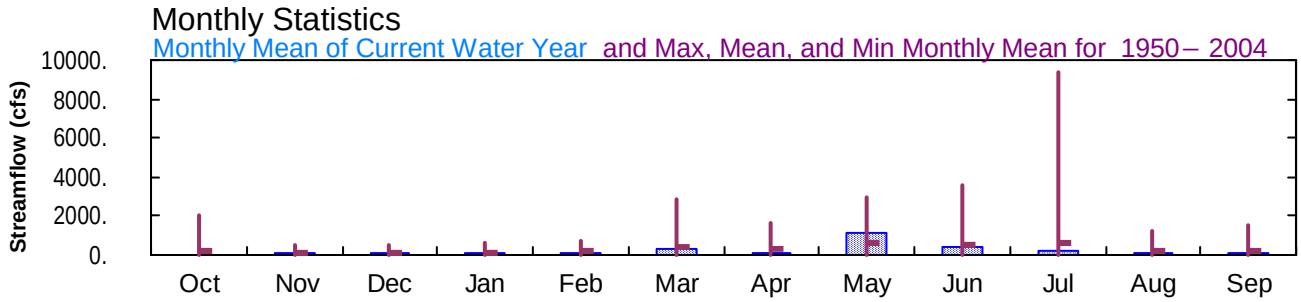
LITTLE NEMAHA RIVER BASIN

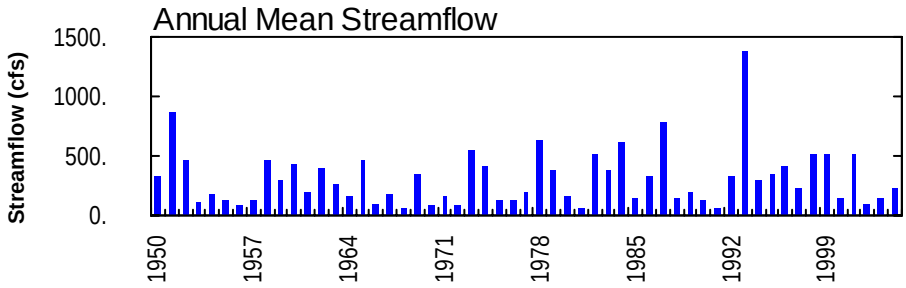
06811500 LITTLE NEMAHA RIVER AT AUBURN, NE

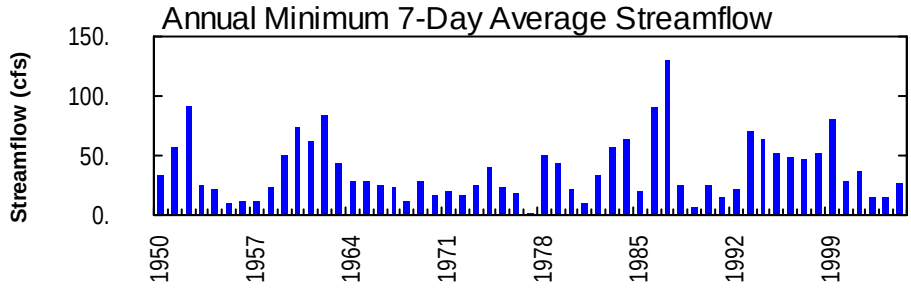
Latitude: 40° 23 ' 33" Longitude: 095° 48 ' 46" Hydrologic Unit Code: 10240006

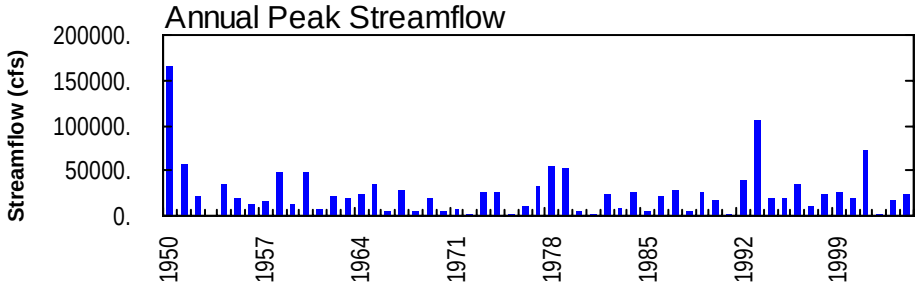
Nemaha County Datum: 889.87 feet Drainage Area: 792. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06811500 LITTLE NEMAHA RIVER AT AUBURN, NE

LOCATION—Lat 40°23'33", long 95°48'46", in NE 1/4 NW 1/4 sec.23, T.5 N., R.14 E., Nemaha County, Hydrologic Unit 10240006, on left bank at upstream side of bridge on U.S. Highway 136, 1 mi downstream from Longs Creek and Willow Creek, 1 mi east of Auburn, and at mile 10.4.

DRAINAGE AREA—792 mi^2.

PERIOD OF RECORD—August 1949 to current year.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 889.87 ft above sea level. See WSP 2119 for history of changes prior to July 24, 1967. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

06811500 LITTLE NEMAHA RIVER AT AUBURN, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	34	51	58	e43	202	171	69	1030	112	72	48
2	28	65	51	59	e44	202	144	68	601	123	68	47
3	27	204	62	56	e45	145	128	67	395	430	64	45
4	26	332	61	47	e46	173	114	67	319	596	63	44
5	26	117	56	e44	e52	2730	107	65	280	477	57	55
6	28	73	52	e42	e57	1360	99	66	261	687	54	61
7	25	58	50	e42	e61	494	97	60	241	314	52	52
8	25	51	50	e44	e66	276	90	65	218	232	53	45
9	27	49	44	e45	e71	202	86	61	200	215	69	44
10	27	49	38	e54	e72	175	86	64	190	260	71	42
11	31	48	e37	e72	e71	152	83	67	181	200	55	40
12	38	45	e35	e86	e66	136	82	66	222	180	54	39
13	38	41	e36	90	e65	129	80	257	4020	147	53	39
14	42	43	e38	82	e63	120	79	187	1400	129	52	37
15	38	44	e40	89	e66	119	79	99	966	119	52	38
16	35	43	e43	75	e68	139	78	84	471	111	52	39
17	35	48	e46	81	e80	145	76	78	268	103	49	39
18	36	46	61	86	e96	129	76	2690	207	94	47	38
19	35	114	66	85	161	120	73	872	183	96	45	37
20	33	77	69	77	213	109	74	280	166	87	45	35
21	32	56	67	66	431	98	73	171	228	101	46	34
22	31	50	73	69	539	95	69	130	460	81	44	548
23	31	48	70	71	498	90	68	8410	246	80	44	296
24	31	34	57	69	351	89	88	2940	178	156	201	138
25	29	49	65	e64	205	90	154	1590	148	141	164	87
26	30	56	75	e44	165	92	96	919	135	101	237	67
27	32	51	79	e42	168	162	82	611	131	86	118	57
28	34	42	78	e42	154	1230	76	444	127	80	75	50
29	37	43	68	e40	152	594	70	707	119	110	61	46
30	38	57	60	e41	---	297	69	12200	111	102	55	44
31	35	---	58	e42	---	210	---	2040	---	79	50	---
TOTAL	987	2067	1736	1904	4169	10304	2747	35494	13702	5829	2222	2231
MEAN	31.8	68.9	56.0	61.4	144	332	91.6	1145	457	188	71.7	74.4
MAX	42	332	79	90	539	2730	171	12200	4020	687	237	548
MIN	25	34	35	40	43	89	68	60	111	79	44	34
AC-FT	1960	4100	3440	3780	8270	20440	5450	70400	27180	11560	4410	4430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

MEAN	211	132	111	114	220	440	356	607	558	566	215	228
MAX	2003	493	509	562	747	2870	1589	2949	3524	9419	1256	1546
(WY)	1974	1999	1987	1974	1993	1979	1984	1996	1951	1993	1982	1977
MIN	25.4	25.7	23.4	19.7	28.4	49.1	30.6	29.9	14.8	16.2	14.0	22.8
(WY)	1992	1956	1957	1957	1956	1957	1956	1956	1977	1977	1955	2003

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004	
ANNUAL TOTAL	52906		83392			
ANNUAL MEAN	145		228		314	
HIGHEST ANNUAL MEAN					1389	1993
LOWEST ANNUAL MEAN					64.4	1981
HIGHEST DAILY MEAN	5370	Jun 12	12200	May 30	70400	Jul 24 1993
LOWEST DAILY MEAN	11	Aug 18	25	Oct 7	0.87	Jul 6 1977
ANNUAL SEVEN-DAY MINIMUM	14	Aug 12	26	Oct 3	1.1	Jul 3 1977
MAXIMUM PEAK FLOW			23300	May 30	164000	May 9 1950
MAXIMUM PEAK STAGE			23.13	May 30	*27.65	May 9 1950
ANNUAL RUNOFF (AC-FT)	104900		165400		227300	
10 PERCENT EXCEEDS	163		302		465	
50 PERCENT EXCEEDS	49		71		98	
90 PERCENT EXCEEDS	22		38		34	

e Estimated
* From Floodmark

06813500 MISSOURI RIVER AT RULO, NE

LOCATION.--Lat 40°03'13", long 95°25'19", in NW¼ NW¼ sec.17, T.1 N., R.18 E., Richardson County, Hydrologic Unit 10240005, on right bank at downstream side of bridge on U.S. Highway 159 at Rulo, 3.2 mi upstream from Big Nemaha River, and at mile 498.0.

DRAINAGE AREA.--414,900 mi^2, approximately. The 3,959 mi^2 in Great Divide basin are not included.

PERIOD OF RECORD.--October 1949 to current year in reports of U.S. Geological Survey. Gage- height record collected at site 80 ft upstream January 1886 to December 1899 published in reports of Missouri River Commission; September 1929 to September 1950 in files of Kansas City office of U.S. Army Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 837.23 ft above NGVD of 1929. Oct. 1949 to Sept. 12, 1950, nonrecording gage at site 80 ft upstream and Sept. 13, 1950 to Apr. 19, 1983, recording gage on downstream end of middle pier, all at same datum.

REMARKS.--Records good, except those for estimated daily discharges, which are poor. Flow regulated by upstream main-stem reservoirs. Fort Randall Dam was completed in July 1952, with storage beginning in December 1952. Gavins Point Dam was completed in July 1955, with storage beginning in December 1955. U.S. Army Corps of Engineers satellite data collection platform at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 358,000 ft^3/s Apr. 22, 1952, gage height, 25.60 ft; minimum daily discharge, 4,420 ft^3/s Jan. 13, 1957; minimum gage height, -0.19 ft Dec. 25, 1990, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1881 reached a stage of 22.9 ft, from floodmark, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31,000	33,200	18,800	21,900	17,600	38,900	37,800	32,800	58,900	42,700	36,800	30,400
2	30,900	33,500	19,000	21,000	18,800	43,800	36,000	32,600	56,500	42,200	36,200	30,300
3	31,100	35,600	20,000	20,800	19,400	43,400	34,300	32,400	54,100	42,900	35,900	29,700
4	31,300	39,600	20,600	20,700	19,300	41,900	32,900	33,200	52,200	45,400	36,400	29,700
5	30,700	39,400	20,900	20,400	20,200	46,600	32,100	34,700	52,300	46,800	43,100	29,700
6	30,600	37,100	20,600	19,000	21,000	44,900	31,600	35,400	50,000	49,200	40,200	30,300
7	30,900	36,300	19,900	17,300	20,600	42,600	31,600	35,000	49,300	47,400	37,300	31,500
8	31,300	35,900	19,500	16,400	19,700	40,500	31,500	35,200	50,300	46,600	36,500	30,700
9	30,900	35,000	19,100	16,100	19,600	35,700	31,500	35,200	49,000	47,500	36,000	30,300
10	30,900	34,400	19,300	16,500	19,900	32,900	31,500	36,100	47,700	54,500	35,800	29,700
11	31,200	34,200	19,300	17,600	19,500	30,500	31,500	38,800	46,900	54,500	35,700	29,500
12	32,200	33,900	17,700	19,100	19,600	28,600	31,300	39,300	46,900	55,800	35,100	29,700
13	32,600	33,700	17,100	20,000	20,500	26,800	31,800	38,200	58,300	50,200	34,800	29,900
14	32,900	33,600	16,900	20,300	20,800	25,400	32,100	38,500	58,800	48,000	34,500	30,200
15	33,600	33,600	17,900	21,000	20,300	24,000	32,100	38,900	51,500	46,600	34,200	30,400
16	32,800	33,500	19,700	21,800	19,500	23,600	31,600	37,700	52,200	45,800	33,900	31,300
17	32,600	33,700	21,100	21,500	19,300	24,400	31,300	36,300	49,900	46,500	33,400	34,200
18	32,500	34,400	21,700	22,100	19,600	24,700	31,200	39,200	52,400	44,400	32,900	38,000
19	32,000	34,700	21,700	22,500	19,000	24,600	31,700	42,200	61,900	42,500	32,700	40,400
20	32,000	34,200	21,500	21,900	19,000	23,600	31,500	39,800	57,200	41,200	32,500	39,700
21	31,900	33,000	21,500	21,000	21,200	22,800	32,000	40,300	55,000	40,200	32,500	38,100
22	32,200	31,000	22,100	21,000	22,100	23,000	32,300	38,800	56,600	39,200	32,000	39,900
23	32,300	28,900	21,700	21,300	22,700	24,100	32,500	46,900	54,400	42,600	31,400	41,000
24	32,100	27,000	20,800	21,800	24,600	26,100	33,400	90,800	51,400	39,900	31,700	39,200
25	32,200	24,800	20,500	22,000	29,300	28,300	34,400	98,000	48,900	38,700	32,300	38,800
26	32,400	22,500	20,300	22,500	30,800	29,400	35,300	94,300	47,500	37,700	34,400	39,500
27	32,300	20,400	20,200	23,200	29,100	30,000	35,600	80,000	45,900	37,300	34,500	41,900
28	32,400	19,300	20,500	22,100	29,300	34,700	35,400	70,300	44,900	36,700	32,400	40,000
29	32,600	19,600	21,300	20,700	32,500	39,700	34,700	62,100	43,800	37,000	31,400	38,400
30	32,700	19,200	22,500	19,500	---	40,000	33,700	91,600	43,200	36,700	31,100	37,100
31	32,600	---	22,500	17,900	---	39,100	---	80,300	---	36,900	30,700	---
TOTAL	989,700	945,200	626,200	630,900	634,800	1,004,600	986,200	1,524,900	1,547,900	1,363,600	1,068,300	1,029,500
MEAN	31,930	31,510	20,200	20,350	21,890	32,410	32,870	49,190	51,600	43,990	34,460	34,320
MAX	33,600	39,600	22,500	23,200	32,500	46,600	37,800	98,000	61,900	55,800	43,100	41,900
MIN	30,600	19,200	16,900	16,100	17,600	22,800	31,200	32,400	43,200	36,700	30,700	29,500
AC-FT	1,963,000	1,875,000	1,242,000	1,251,000	1,259,000	1,993,000	1,956,000	3,025,000	3,070,000	2,705,000	2,119,000	2,042,000
CFSM	0.08	0.08	0.05	0.05	0.05	0.08	0.08	0.12	0.12	0.11	0.08	0.08
IN.	0.09	0.08	0.06	0.06	0.06	0.09	0.09	0.14	0.14	0.12	0.10	0.09

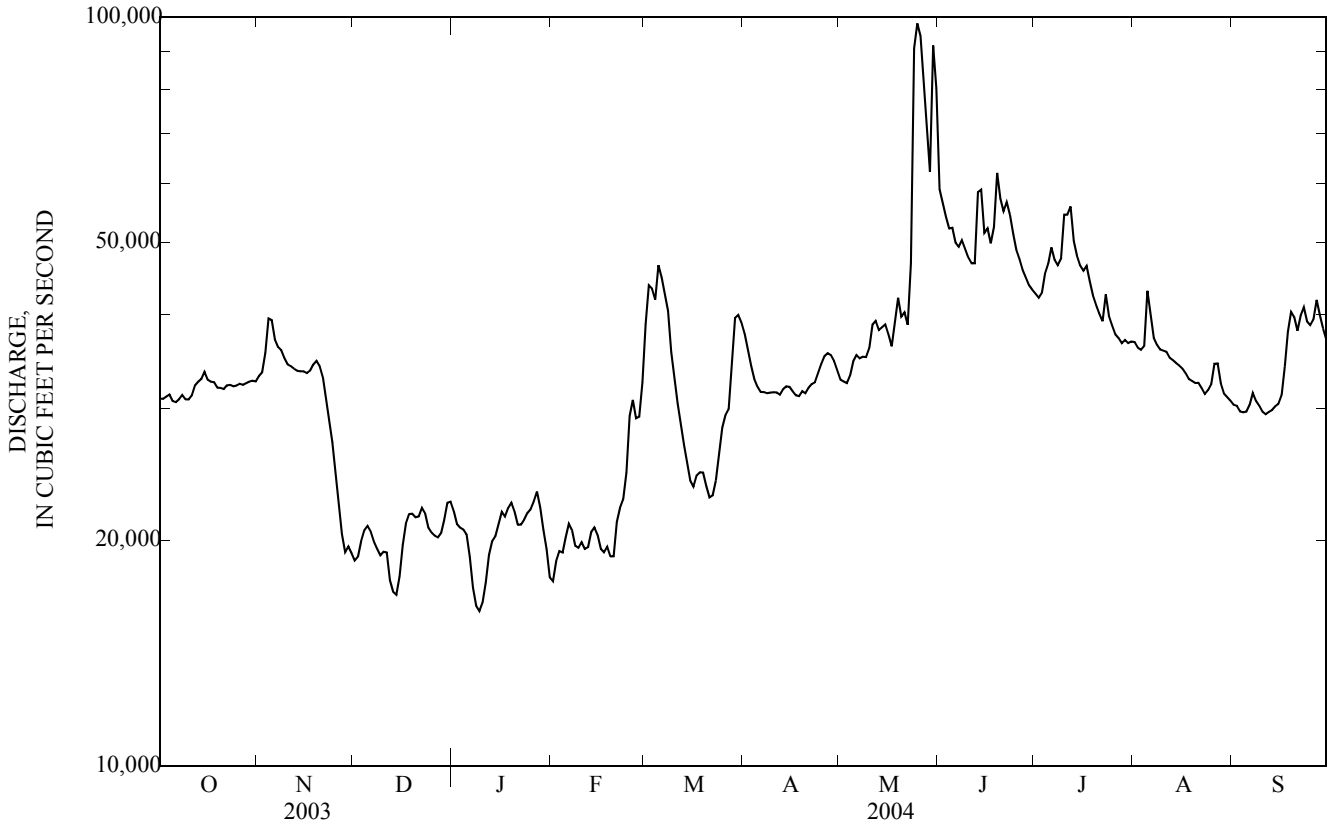
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

MEAN	44,390	40,770	27,080	22,750	28,340	40,720	50,690	51,740	56,330	50,400	44,390	44,610
MAX	80,050	83,880	57,380	42,280	53,140	79,590	106,100	97,280	130,600	164,800	78,730	76,410
(WY)	(1998)	(1998)	(1998)	(1973)	(1997)	(1979)	(1997)	(1997)	(1984)	(1993)	(1996)	(1997)
MIN	25,580	17,000	9,953	10,800	13,220	15,380	21,820	33,790	33,710	29,650	29,320	32,270
(WY)	(1962)	(1962)	(1956)	(1957)	(1957)	(1957)	(1957)	(1956)	(1956)	(2002)	(2003)	(2003)

06813500 MISSOURI RIVER AT RULO, NE—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004	
ANNUAL TOTAL	11,421,100		12,351,800			
ANNUAL MEAN	31,290		33,750		41,880	
HIGHEST ANNUAL MEAN					71,880	1997
LOWEST ANNUAL MEAN					26,340	1957
HIGHEST DAILY MEAN	62,800	Jun 13	98,000	May 25	289,000	Jul 24, 1993
LOWEST DAILY MEAN	16,000	Jan 19	16,100	Jan 9	4,420	Jan 13, 1957
ANNUAL SEVEN-DAY MINIMUM	16,900	Jan 15	17,400	Jan 6	5,560	Nov 30, 1955
MAXIMUM PEAK FLOW			109,000	May 30	307,000	Jul 24, 1993
MAXIMUM PEAK STAGE			19.42	May 30	25.37	Jul 24, 1993
INSTANTANEOUS LOW FLOW			16,000	Jan 9		
ANNUAL RUNOFF (AC-FT)	22,650,000		24,500,000		30,340,000	
ANNUAL RUNOFF (CFSM)	0.075		0.081		0.101	
ANNUAL RUNOFF (INCHES)	1.02		1.11		1.37	
10 PERCENT EXCEEDS	44,400		47,800		66,300	
50 PERCENT EXCEEDS	31,900		32,500		38,400	
90 PERCENT EXCEEDS	19,600		19,800		19,100	

a Post regulation.



06814000 TURKEY CREEK NEAR SENECA, KS

LOCATION—Lat 39°56'52", long 96°06'30", in SW ¼ NW ¼ SW ¼ sec.20, T.1 S., R.12 E., Nemaha County, Hydrologic Unit 10240007, on left bank at downstream side of county highway bridge, 2.0 mi downstream from Clear Creek, 5.0 mi upstream from Big Nemaha River, and 8.0 mi northwest of Seneca.

DRAINAGE AREA—276 mi^2.

PERIOD OF RECORD—October 1948 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE—Water-stage recorder. Datum of gage is 1,037.53 ft above NGVD of 1929. Prior to Oct. 19, 1956, water-stage recorder (occasional operation only) and nonrecording gage on former channel 400 ft south of present site at present datum. Oct. 19, 1956, to June 15, 1957, nonrecording gage at highway bridge 1.2 mi upstream at different datum. June 16, 1957, to Mar. 27, 1958, nonrecording gage at present site and datum.

REMARKS—Records fair except those for estimated daily discharges, which are poor. Satellite telemeter at station.

COOPERATION—Records provided by U.S. Geological Survey, KansasWater Science Center.

PEAK DISCHARGES FOR CURRENT YEAR—Peak discharges greater than base discharge of 3,100 ft^3/s and maximum (*):

	Time	Discharge (ft^3/s)	Gage height (ft)		Time	Discharge (ft^3/s)	Gage height (ft)
Nov 4	1200	3,340	14.24		2330	4,860	17.28
Mar 5	1300	*5,330	*18.13				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	9.1	5.8	6.3	e9.1	538	71	28	332	13	4.6	0.81
2	1.9	20	5.5	5.8	e9.6	196	61	24	193	16	4.7	0.77
3	0.75	922	6.9	6.0	e9.8	105	55	21	111	39	4.1	0.70
4	0.42	1,540	8.6	3.7	e8.4	383	51	21	76	34	3.0	0.70
5	0.45	208	7.3	e6.3	e9.1	3,950	48	21	59	33	3.0	0.82
6	0.23	66	6.1	e2.4	e8.6	537	47	19	57	33	2.7	1.6
7	0.16	40	5.5	e2.1	e8.5	216	46	17	52	24	2.7	3.0
8	0.14	31	5.3	e2.0	e8.7	130	61	15	44	17	2.7	1.6
9	0.15	24	6.9	e2.5	e8.4	98	51	14	39	15	24	0.85
10	0.34	20	5.9	e3.1	e8.3	80	43	16	37	13	30	0.77
11	0.57	19	7.9	e3.8	e8.3	70	42	21	35	12	11	0.76
12	1.5	17	7.5	3.95	e12	60	39	18	33	21	6.3	0.75
13	5.0	14	6.8	e4.3	e7.7	56	37	222	59	17	4.7	0.58
14	5.1	14	7.0	e4.4	e9.5	54	36	138	56	10	4.1	0.55
15	14	14	8.0	e4.7	e5.4	52	35	52	48	8.2	3.4	0.63
16	6.8	13	8.1	e5.3	e5.2	61	34	35	39	7.4	2.0	0.71
17	2.9	14	8.2	e5.2	e9.3	58	32	30	29	6.7	1.9	0.57
18	2.4	15	9.0	e3.8	e28	51	31	117	30	6.0	1.7	0.45
19	3.7	13	8.6	e3.6	48	45	30	192	28	5.6	1.8	0.34
20	1.8	12	9.9	e4.6	422	42	30	64	23	5.5	1.6	0.32
21	1.1	11	11	e5.3	e497	37	29	44	21	5.6	1.5	0.29
22	0.88	11	11	e5.3	424	35	28	35	19	8.7	1.4	0.18
23	1.1	11	10	e7.8	318	36	27	34	18	6.5	1.4	0.23
24	1.3	10	19	e7.9	145	36	32	34	15	11	2.3	0.26
25	0.99	11	18	e6.2	72	36	69	29	14	26	2.6	0.24
26	1.1	14	12	e6.6	49	37	57	24	13	15	3.0	0.19
27	1.6	10	10	e6.6	46	192	36	21	14	8.2	2.0	0.16
28	1.8	7.0	13	e5.0	41	1,070	30	19	15	6.5	1.4	0.16
29	8.1	5.9	10	e6.1	45	252	27	16	14	8.1	1.2	0.14
30	14	6.1	7.9	e7.7	---	133	26	2,680	13	5.5	1.1	0.16
31	6.5	---	6.6	e8.2	---	92	---	1,390	---	5.4	0.92	---
MEAN	2.84	104	8.82	5.05	78.7	282	41.4	175	51.2	14.3	4.48	0.64
MAX	14	1,540	19	8.2	497	3,950	71	2,680	332	39	30	3.0
MIN	0.14	5.9	5.3	2.0	5.2	35	26	14	13	5.4	0.92	0.14
AC-FT	175	6,190	542	311	4,520	17,330	2,460	10,730	3,050	878	275	38

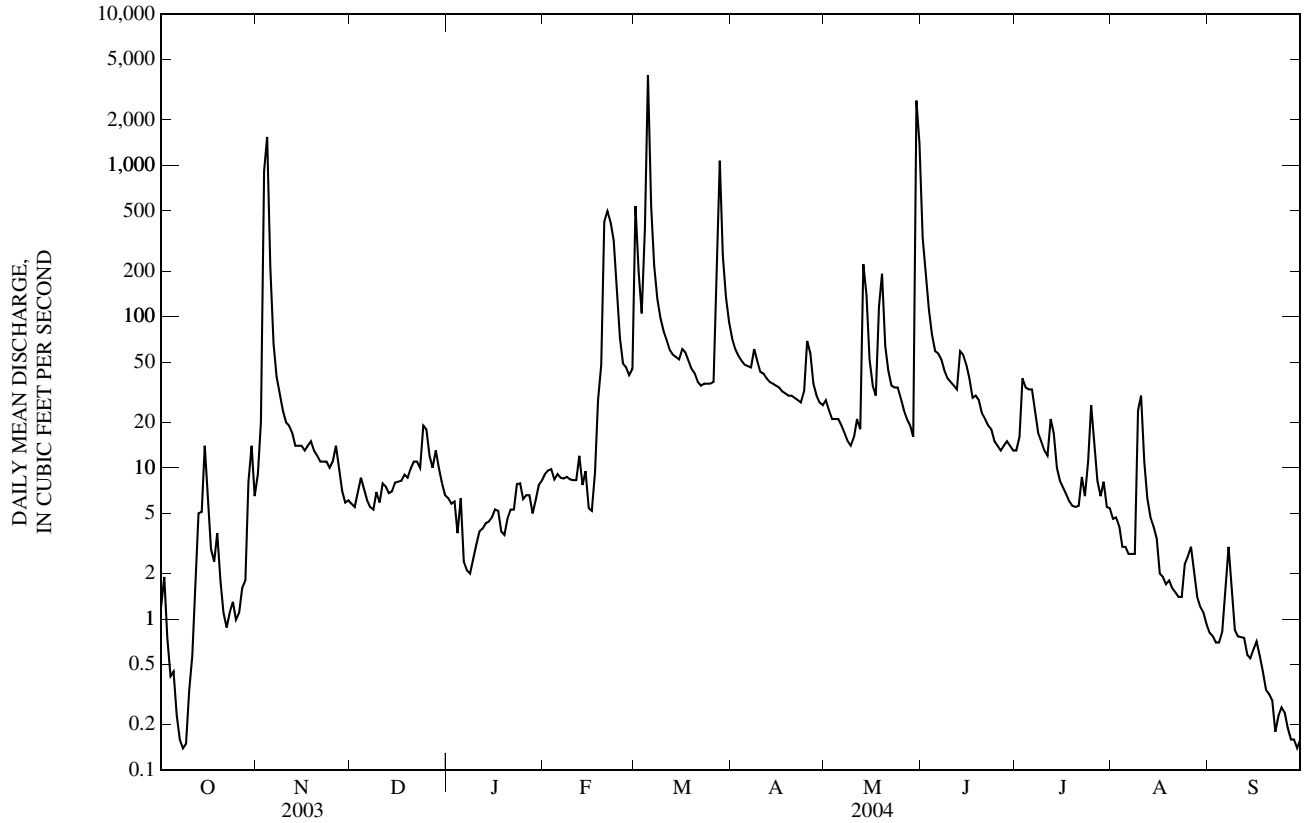
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004, BY WATER YEAR (WY)

MEAN	80.2	49.2	32.5	39.1	91.8	205	171	225	235	199	77.7	128
MAX	1,050	419	206	310	372	1,297	1,079	1,354	2,067	3,193	914	1,057
(WY)	(1974)	(1999)	(1974)	(1962)	(1982)	(1979)	(1984)	(1995)	(1951)	(1993)	(1954)	(1958)
MIN	0.00	0.00	0.00	0.00	0.02	0.06	0.28	2.43	2.75	0.92	1.48	0.00
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1957)	(1956)	(1989)	(1977)	(1989)	(1988)	(1956)

06814000 TURKEY CREEK NEAR SENECA, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004	
ANNUAL MEAN	32.0		64.1		126	
HIGHEST ANNUAL MEAN					547	1993
LOWEST ANNUAL MEAN					3.24	1956
HIGHEST DAILY MEAN	1,840	May 9	3,950	Mar 5	16,700	Oct 11, 1973
LOWEST DAILY MEAN	0.10	Aug 18	0.14	Oct 8	0.00	Jul 28, 1956
ANNUAL SEVEN-DAY MINIMUM	0.17	Sep 24	0.19	Sep 24	0.00	Aug 21, 1956
MAXIMUM PEAK FLOW			5,330	Mar 5	21,400	Oct 11, 1973
MAXIMUM PEAK STAGE			18.13	Mar 5	24.77	Oct 11, 1973
INSTANTANEOUS LOW FLOW			0.12	Oct 8	0.00	Jul 28, 1956
ANNUAL RUNOFF (AC-FT)	23,180		46,510		91,510	
10 PERCENT EXCEEDS	26		69		200	
50 PERCENT EXCEEDS	6.8		11		21	
90 PERCENT EXCEEDS	0.67		0.87		2.0	

e Estimated



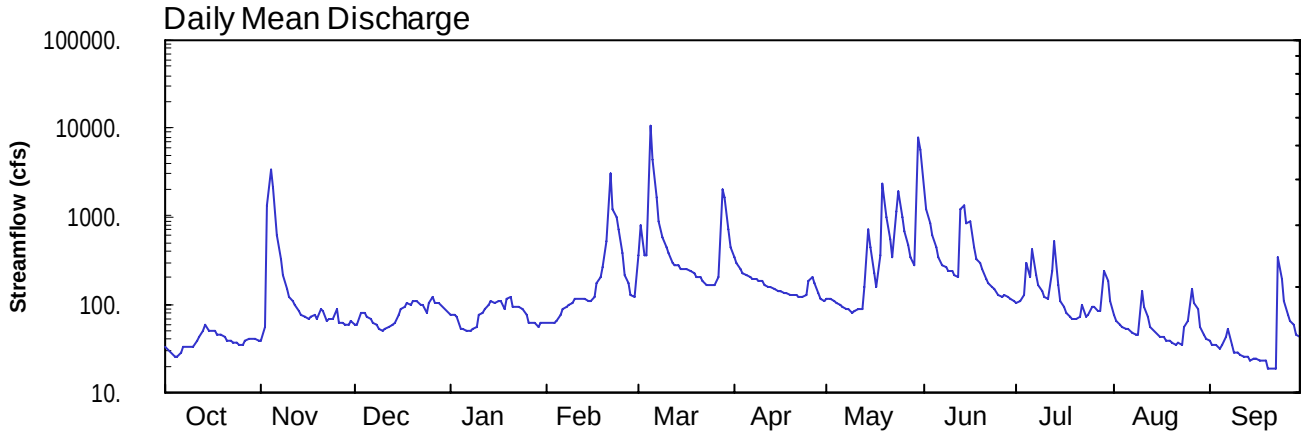
2004 Water Year

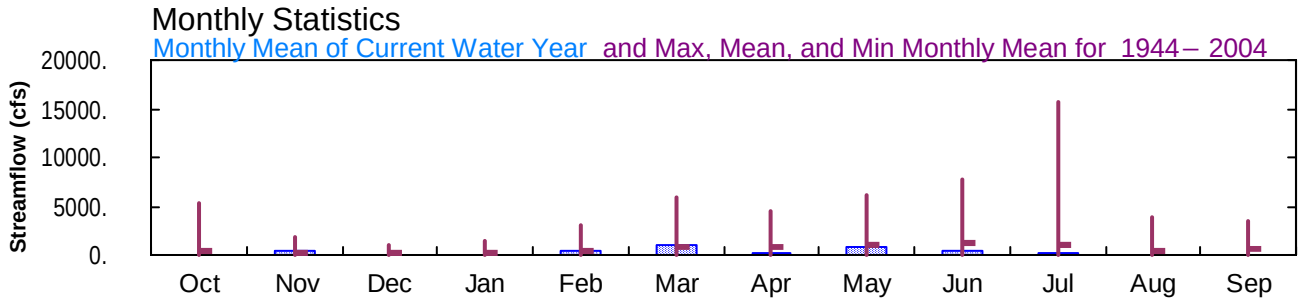
BIG NEMAHA RIVER BASIN

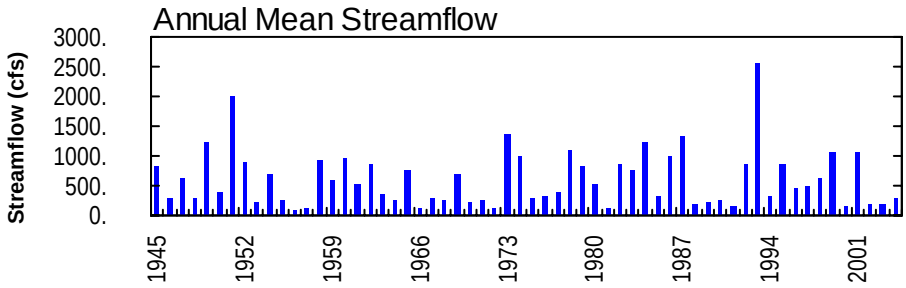
06815000 BIG NEMAHA RIVER AT FALLS CITY, NEBR.

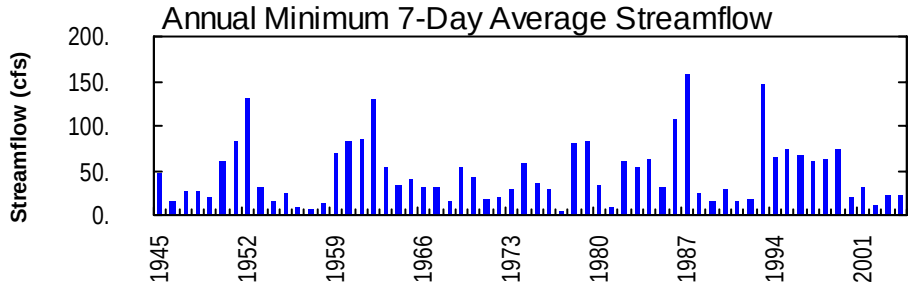
Latitude: 40° 02 ' 08" Longitude: 095° 35 ' 45" Hydrologic Unit Code: 10240008

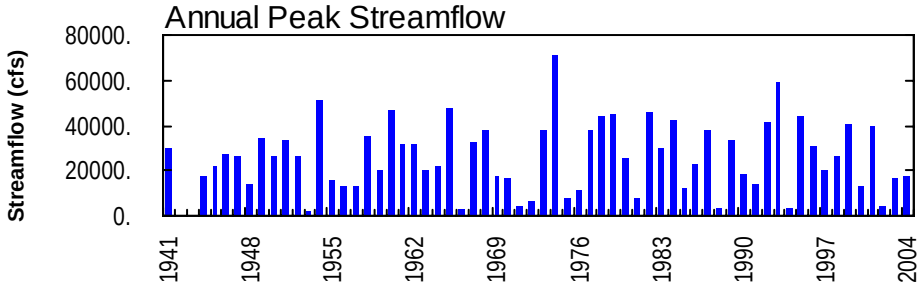
Richardson County Datum: 858.24 feet Drainage Area: 1339. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06815000 BIG NEMAHA RIVER AT FALLS CITY, NE

LOCATION—Lat 40°02'08", long 95°35'45", in NE 1/4 SE 1/4 sec.22, T.1 N., R.16 E., Richardson County, Hydrologic Unit 10240008, on right bank near upstream side of bridge on U.S. Highway 73, 1 mi south of Falls City and 14.5 mi upstream from mouth.

DRAINAGE AREA—1,339 mi^2.

PERIOD OF RECORD—March 1944 to current year. Prior to October 1967, published as Nemaha River at Falls City.

REVISED RECORDS—WSP 1086: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 858.24 ft above sea level. Prior to Oct. 16, 1952, non-recording gage and Oct. 17, 1952 to Aug. 24, 1982 water-stage recorder for stages above 6.1 ft at site 150 ft downstream at datum 3.0 ft higher. Aug. 25, 1982 to Sept. 30, 1997 at present site, at datum 3.0 ft higher. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor.

06815000 BIG NEMAHA RIVER AT FALLS CITY, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	39	60	78	e62	356	350	114	2020	104	75	38
2	30	55	59	77	e63	775	294	113	1170	110	64	35
3	28	1350	82	72	e63	365	258	109	819	128	59	34
4	26	3430	82	e54	e64	359	230	103	611	297	56	32
5	25	2110	73	e52	e76	10800	214	100	450	201	53	34
6	29	625	67	e51	e88	4470	202	96	343	429	52	44
7	33	330	63	e51	e95	1670	196	91	282	210	47	52
8	33	212	58	e52	e98	872	195	87	259	167	46	34
9	33	153	e53	e57	e106	586	182	82	240	140	46	29
10	33	124	e51	76	e115	457	187	83	234	119	143	28
11	39	109	e52	81	e116	377	167	87	215	115	95	27
12	43	97	e55	89	e116	e300	159	88	204	243	72	26
13	51	83	e58	99	e113	e280	156	158	1230	528	57	25
14	58	77	e63	107	e110	276	149	710	1330	169	50	23
15	51	73	e77	102	e110	249	144	442	836	112	48	24
16	50	69	e90	108	e119	254	142	232	882	93	44	24
17	49	71	93	108	178	252	138	160	445	81	42	23
18	45	75	105	87	202	241	132	365	321	73	39	23
19	45	69	97	118	269	227	128	2390	290	70	39	23
20	42	91	112	119	516	205	128	976	253	68	37	19
21	39	83	108	96	3120	202	125	536	193	72	34	19
22	38	66	98	95	1210	186	123	347	174	97	37	19
23	37	70	99	92	953	168	122	1120	161	74	35	349
24	37	67	81	e89	719	164	127	1890	146	78	57	192
25	34	91	103	e78	386	165	181	951	129	96	64	111
26	34	62	123	e62	220	168	203	684	120	93	152	78
27	38	61	106	e61	175	204	176	477	128	83	103	66
28	40	60	106	e62	129	2070	137	336	119	83	89	59
29	40	59	97	e57	119	1650	116	282	113	243	56	45
30	40	64	89	e63	---	710	112	7800	109	183	45	42
31	38	---	82	e63	---	458	---	5670	---	109	40	---
TOTAL	1191	9925	2542	2456	9710	29516	5173	26679	13826	4668	1876	1577
MEAN	38.4	331	82.0	79.2	335	952	172	861	461	151	60.5	52.6
MAX	58	3430	123	119	3120	10800	350	7800	2020	528	152	349
MIN	25	39	51	51	62	164	112	82	109	68	34	19
AC-FT	2360	19690	5040	4870	19260	58540	10260	52920	27420	9260	3720	3130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2004, BY WATER YEAR (WY)

MEAN	402	269	182	220	439	872	782	1063	1137	970	452	614
MAX	5229	1851	1036	1446	2998	5819	4462	6166	7816	15690	3898	3408
(WY)	1974	1999	1974	1974	1949	1979	1984	1995	1951	1993	1954	1958
MIN	21.0	28.1	24.1	19.9	42.2	42.5	32.3	44.5	46.4	20.7	29.8	16.6
(WY)	1957	1957	1957	1957	1957	1956	1956	1989	1981	1977	1991	1956

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1944 - 2004	
ANNUAL TOTAL	75843		109139			
ANNUAL MEAN	208		298		614	
HIGHEST ANNUAL MEAN					2559	1993
LOWEST ANNUAL MEAN					86.7	1956
HIGHEST DAILY MEAN	5890	Jun 13	10800	Mar 5	57600	Oct 11 1973
LOWEST DAILY MEAN	21	Sep 8	19	Sep 20	3.0	Jul 9 1977
ANNUAL SEVEN-DAY MINIMUM	24	Sep 23	21	Sep 16	4.0	Jul 4 1977
MAXIMUM PEAK FLOW			17700	Mar 5	71600	Oct 11 1973
MAXIMUM PEAK STAGE			19.62	Mar 5	*31.40	Oct 11 1973
ANNUAL RUNOFF (AC-FT)	150400		216500		445100	
10 PERCENT EXCEEDS	271		520		1030	
50 PERCENT EXCEEDS	67		99		156	
90 PERCENT EXCEEDS	32		37		44	

e Estimated
* Datum then in use

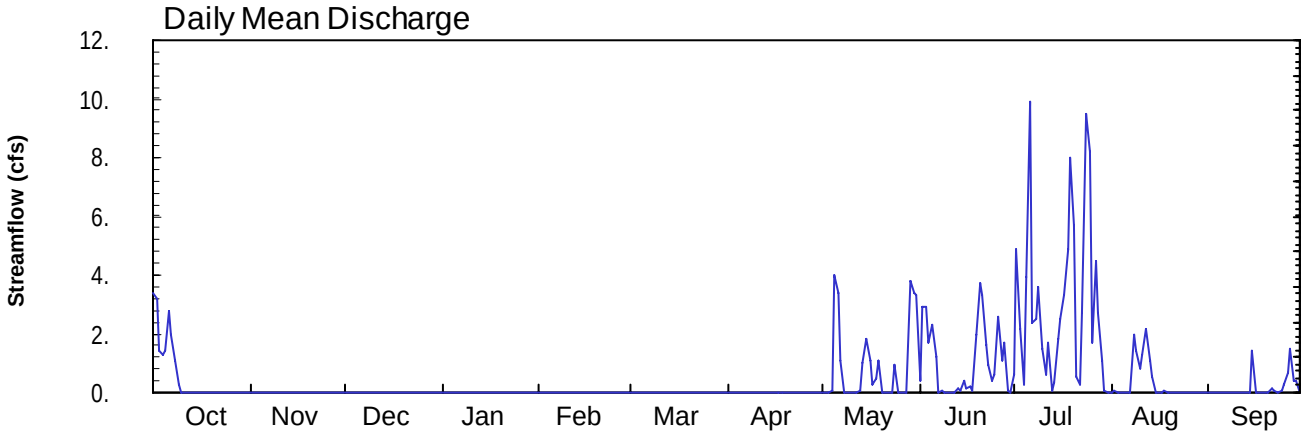
2004 Water Year

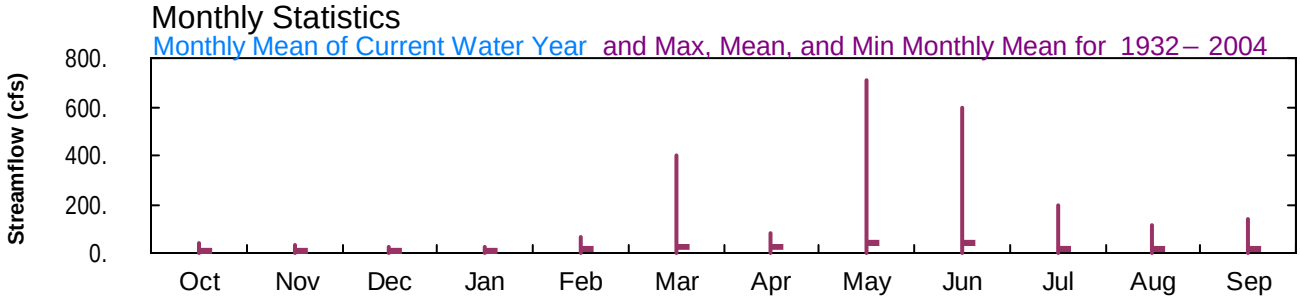
KANSAS RIVER BASIN

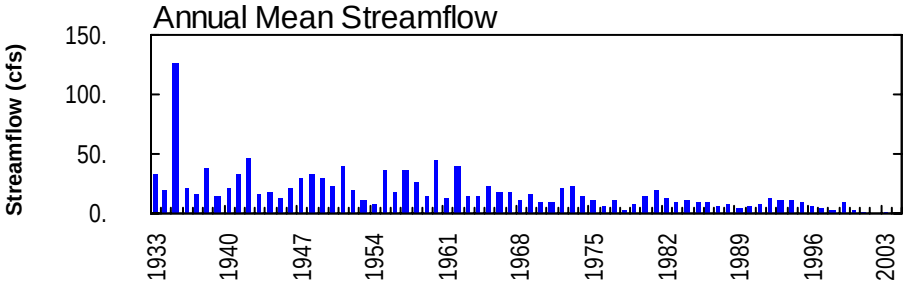
06821500 ARIKAREE RIVER AT HAIGLER, NEBR.

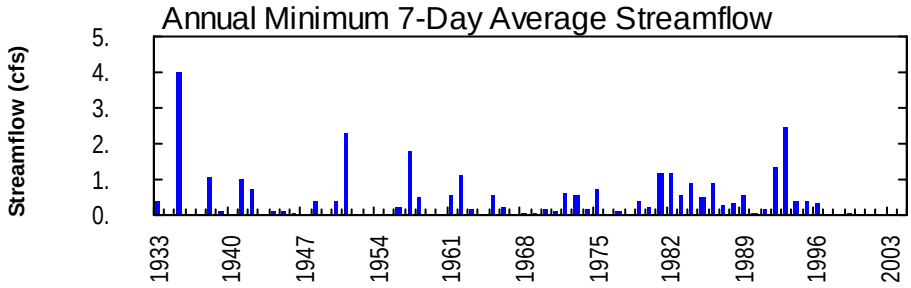
Latitude: 40°01'45" Longitude: 101°58'03" Hydrologic Unit Code: 10250001

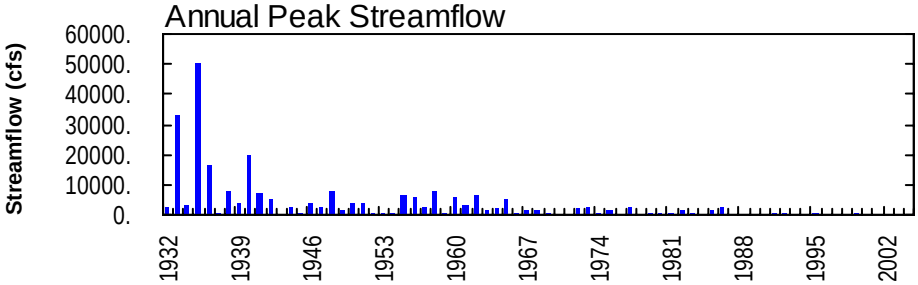
Dundy County Datum: 3250.98 feet Drainage Area: 1700. mi²











06821500 ARIKAREE RIVER AT HAIGLER, NE

LOCATION—Lat 40°01'45", long 101°58'10", in NE 1/4 NE 1/4 sec.29, T.1 N., R.41 W., Dundy County, Hydrologic Unit 10250001, on right bank at downstream side of bridge on U.S. Highway 34, 1.3 mi upstream from Burlington Northern Inc. bridge, 1.9 mi upstream from confluence with North Fork Republican River, 2 mi northwest of Haigler, and 3.2 mi downstream from Kansas-Nebraska state line.

DRAINAGE AREA—1,700 mi^2, of which about 1,020 mi^2 contributes directly to surface runoff.

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

REVISED RECORDS—WSP 1919: 1951, 1954, 1956, 1960. WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder and crest-stage gage. Datum of gage is 3,250.98 ft above sea level. See WSP 1919 for history of changes prior to Sept. 29, 1964. Sept. 29, 1964 to Apr. 25, 1982 on left bank 57 ft downstream from bridge at present datum. Data collection platform at station.

REMARKS—Record fair except for daily discharges greater than 10 ft3/s, which are poor. Natural flow affected by ground-water withdrawals and diversions for irrigation of about 1,500 acres in Colorado and by return flow from Haigler Canal.

06821500 ARIKAREE RIVER AT HAIGLER, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.63	0.02	0.00
2	3.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.9	4.9	0.08	0.00
3	1.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.9	2.2	0.03	0.00
4	1.3	0.00	0.00	0.00	0.00	0.00	0.00	0.04	1.7	0.28	0.00	0.00
5	1.4	0.00	0.00	0.00	0.00	0.00	0.00	4.0	2.3	3.9	0.00	0.00
6	2.8	0.00	0.00	0.00	0.00	0.00	0.00	3.4	1.2	9.9	0.00	0.00
7	2.0	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.01	2.4	0.02	0.00
8	1.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	2.5	2.0	0.00
9	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	1.4	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5	0.80	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1.3	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	2.2	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.12	0.08	1.1	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.04	0.37	0.55	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.41	1.8	0.03	1.4
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.12	2.5	0.00	0.02
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.17	3.3	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.06	4.9	0.09	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	2.0	8.0	0.03	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	3.7	5.7	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.3	0.57	0.00	0.15
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.6	0.26	0.00	0.05
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	2.7	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.40	9.5	0.03	0.06
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	8.2	0.00	0.28
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.6	1.7	0.00	0.67
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	4.5	0.00	1.5
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	2.7	0.00	0.39
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.8	0.05	1.1	0.00	0.43
30	0.00	0.00	0.00	0.00	---	0.00	0.00	3.4	0.00	0.10	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	3.3	---	0.01	0.00	---
TOTAL	16.85	0.00	0.00	0.00	0.00	0.00	0.00	25.79	30.41	92.09	9.68	4.95
MEAN	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.83	1.01	2.97	0.31	0.17
MAX	3.4	0.00	0.00	0.00	0.00	0.00	0.00	4.0	3.7	9.9	2.2	1.5
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
AC-FT	33	0.00	0.00	0.00	0.00	0.00	0.00	51	60	183	19	9.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2004, BY WATER YEAR (WY)

MEAN	9.40	7.73	6.12	7.25	14.8	26.4	21.9	38.5	37.8	18.7	17.5	14.3
MAX	39.8	31.8	28.3	24.0	67.0	400	78.0	709	599	193	111	140
(WY)	1943	1947	1939	1934	1937	1960	1944	1935	1935	1962	1938	1938
MIN	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.07	0.00	0.00	0.00
(WY)	2004	2002	2002	2003	2003	2004	2004	2004	2002	2002	1952	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1932 - 2004	
ANNUAL TOTAL	534.47		179.77			
ANNUAL MEAN	1.46		0.49		18.3	
HIGHEST ANNUAL MEAN					127	1935
LOWEST ANNUAL MEAN					0.28	2002
HIGHEST DAILY MEAN	15	Apr 16	9.9	Jul 6	17000	May 31 1935
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 10	0.00	Jul 21 1932
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 10	0.00	Jul 30 1934
MAXIMUM PEAK FLOW			18	Jul 6	50000	May 31 1935
MAXIMUM PEAK STAGE			5.59	Jul 6	*11.20	May 31 1935
ANNUAL RUNOFF (AC-FT)	1060		357		13280	
10 PERCENT EXCEEDS	5.9		1.8		29	
50 PERCENT EXCEEDS	0.00		0.00		7.9	
90 PERCENT EXCEEDS	0.00		0.00		0.42	

* Site and datum then in use

06823000 NORTH FORK REPUBLICAN RIVER AT COLORADO-NEBRASKA STATE LINE

LOCATION—Lat 40°04'10", long 102°03'05", in SE 1/4 NW 1/4 sec.10, T.1 N., R.42 W., Dundy County, Nebraska, Hydrologic Unit 10250002, on right bank 100 ft east of Colorado-Nebraska State line, 9.5 mi upstream from confluence with Arikaree River, and at mile 448.

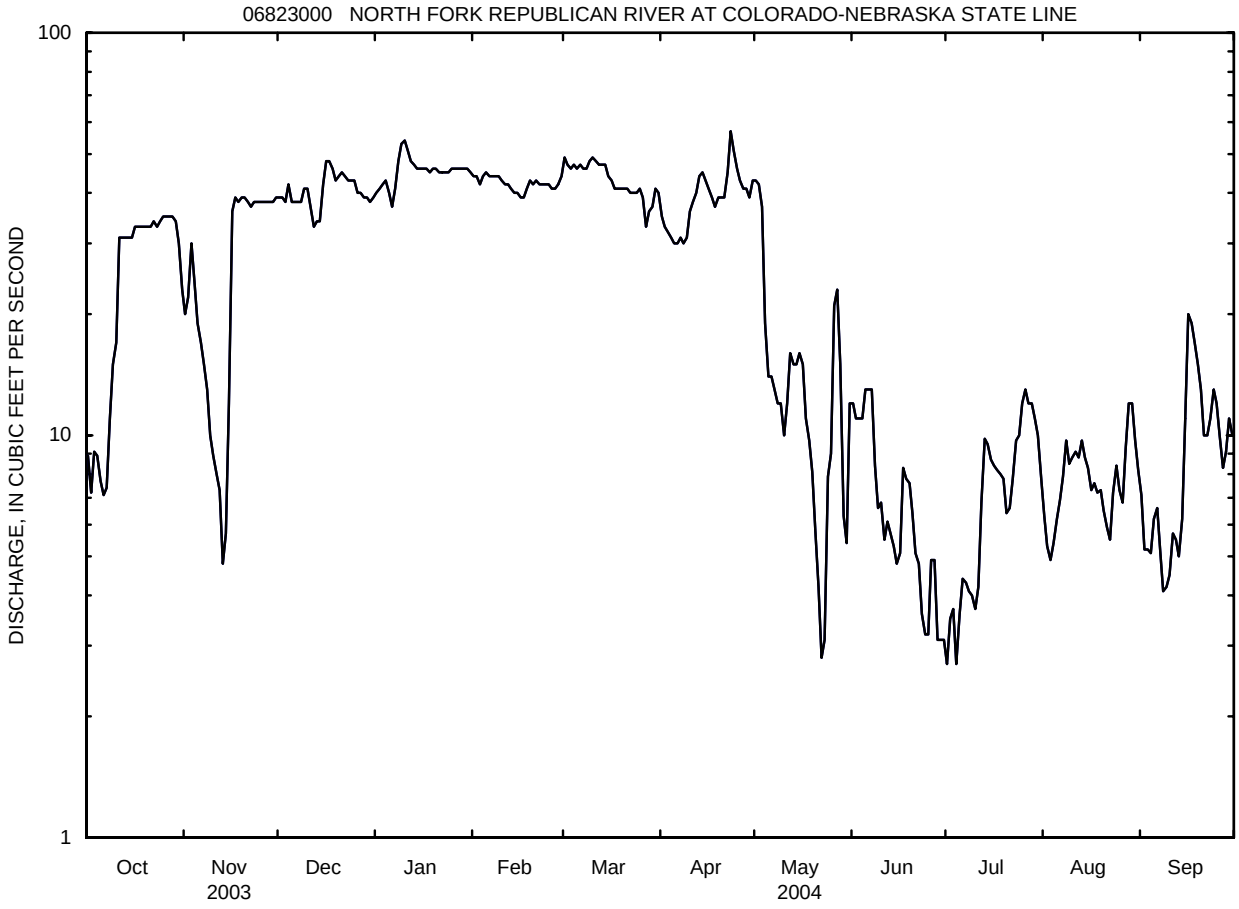
DRAINAGE AREA—2,370 mi^2, of which about 174 mi^2 contributes directly to surface runoff.

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.

REVISED RECORDS—WSP 1240: 1947(M). WSP 1390: 1934. WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Steel piling control since January 1965. Datum of gage is 3,336.09 ft above sea level. Prior to Oct. 17, 1934, non-recording gage at present site and datum. Data Collection platform at station.

REMARKS—Records fair. Natural flow affected by diversion in Haigler Canal for irrigation of about 2,700 acres in Colorado and Nebraska.



06823000 NORTH FORK REPUBLICAN RIVER AT COLORADO-NEBRASKA STATE LINE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	20	39	40	44	49	35	43	12	2.7	6.3	7.1
2	7.2	22	39	41	44	47	33	42	11	3.5	5.3	5.2
3	9.1	30	38	42	42	46	32	37	11	3.7	4.9	5.2
4	8.9	24	42	e43	44	47	31	19	11	2.7	5.4	5.1
5	7.7	19	38	e40	45	46	30	14	13	3.6	6.2	6.2
6	7.1	17	38	e37	e44	47	30	14	13	4.4	6.9	6.6
7	7.4	15	38	e41	e44	46	31	13	13	4.3	7.9	5.2
8	11	13	38	e48	e44	46	30	12	8.4	4.1	9.7	4.1
9	15	10	41	e53	e44	48	31	12	6.6	4.0	8.5	4.2
10	17	8.9	41	e54	e43	49	36	10	6.8	3.7	8.8	4.5
11	31	8.0	37	51	42	48	38	12	5.5	4.2	9.1	5.7
12	31	7.3	33	48	e42	47	40	16	6.1	6.8	8.8	5.5
13	31	4.8	e34	47	e41	47	44	15	5.7	9.8	9.7	5.0
14	31	5.7	34	46	e40	47	45	15	5.3	9.5	8.8	6.2
15	31	12	42	46	40	44	43	16	4.8	8.7	8.3	11
16	33	36	48	46	39	43	41	15	5.1	8.4	7.3	20
17	33	39	48	46	39	41	39	11	8.3	8.2	7.6	19
18	33	38	46	45	41	41	37	9.7	7.8	8.0	7.2	17
19	33	39	43	46	43	41	39	8.1	7.6	7.8	7.3	15
20	33	39	44	46	42	41	39	5.8	6.4	6.4	6.5	13
21	33	38	45	45	43	41	39	4.2	5.1	6.6	5.9	10
22	34	37	44	45	42	40	45	2.8	4.8	7.8	5.5	10
23	33	e38	43	45	42	40	57	3.1	3.6	9.7	7.2	11
24	34	e38	43	45	42	40	51	7.9	3.2	10	8.4	13
25	35	e38	43	46	42	41	46	9.0	3.2	12	7.3	12
26	35	38	40	e46	41	39	43	21	4.9	13	6.8	10
27	35	38	40	e46	41	33	41	23	4.9	12	9.3	8.3
28	35	38	39	e46	42	36	41	15	3.1	12	12	9.1
29	34	38	39	e46	44	37	39	6.3	3.1	11	12	11
30	30	39	38	46	---	41	43	5.4	3.1	10	9.7	10
31	23	---	e39	45	---	40	---	12	---	7.8	8.2	---
TOTAL	780.3	787.7	1254	1407	1226	1339	1169	449.3	207.4	226.4	242.8	275.2
MEAN	25.2	26.3	40.5	45.4	42.3	43.2	39.0	14.5	6.91	7.30	7.83	9.17
MAX	35	39	48	54	45	49	57	43	13	13	12	20
MIN	7.1	4.8	33	37	39	33	30	2.8	3.1	2.7	4.9	4.1
AC-FT	1550	1560	2490	2790	2430	2660	2320	891	411	449	482	546

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2004, BY WATER YEAR (WY)

MEAN	35.9	55.1	59.0	58.9	60.6	63.2	55.6	39.2	32.9	17.8	17.8	24.8
MAX	67.1	83.5	74.7	73.4	76.8	85.8	85.7	104	113	93.8	72.4	128
(WY)	1963	1957	1954	1953	1960	1960	1980	1951	1962	1962	1950	1951
MIN	11.1	26.3	34.4	39.4	35.2	41.7	21.3	7.24	5.80	3.76	4.12	5.78
(WY)	1979	2004	2002	1979	2002	2002	1999	2000	2002	2002	1940	1978

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1935 - 2004	
ANNUAL TOTAL	8925.1		9364.1			
ANNUAL MEAN	24.5		25.6		43.2	
HIGHEST ANNUAL MEAN					65.3	1951
LOWEST ANNUAL MEAN					22.5	2002
HIGHEST DAILY MEAN	60	Apr 30	57	Apr 23	761	May 15 1951
LOWEST DAILY MEAN	2.1	Aug 16	2.7	Jul 1	1.5	Sep 12 1999
ANNUAL SEVEN-DAY MINIMUM	3.0	Aug 11	3.1	Jun 28	2.3	Aug 5 1940
MAXIMUM PEAK FLOW			*59	Apr 23	2110	Apr 28 1947
MAXIMUM PEAK STAGE			**1.81	May 26	5.92	Apr 28 1947
ANNUAL RUNOFF (AC-FT)	17700		18570		31280	
10 PERCENT EXCEEDS	45		46		72	
50 PERCENT EXCEEDS	17		31		47	
90 PERCENT EXCEEDS	4.9		5.3		8.4	

e Estimated
* Stage 1.03 ft
** Backwater from debris

06823500 BUFFALO CREEK NEAR HAIGLER, NE

LOCATION—Lat 40°02'22", long 101°51'57", in SE 1/4 NW 1/4 sec.20, T.1 N., R.40 W., Dundy County, Hydrologic Unit 10250002, on upstream side of bridge, 0.4 mi upstream from mouth, and 4 mi northeast of Haigler.

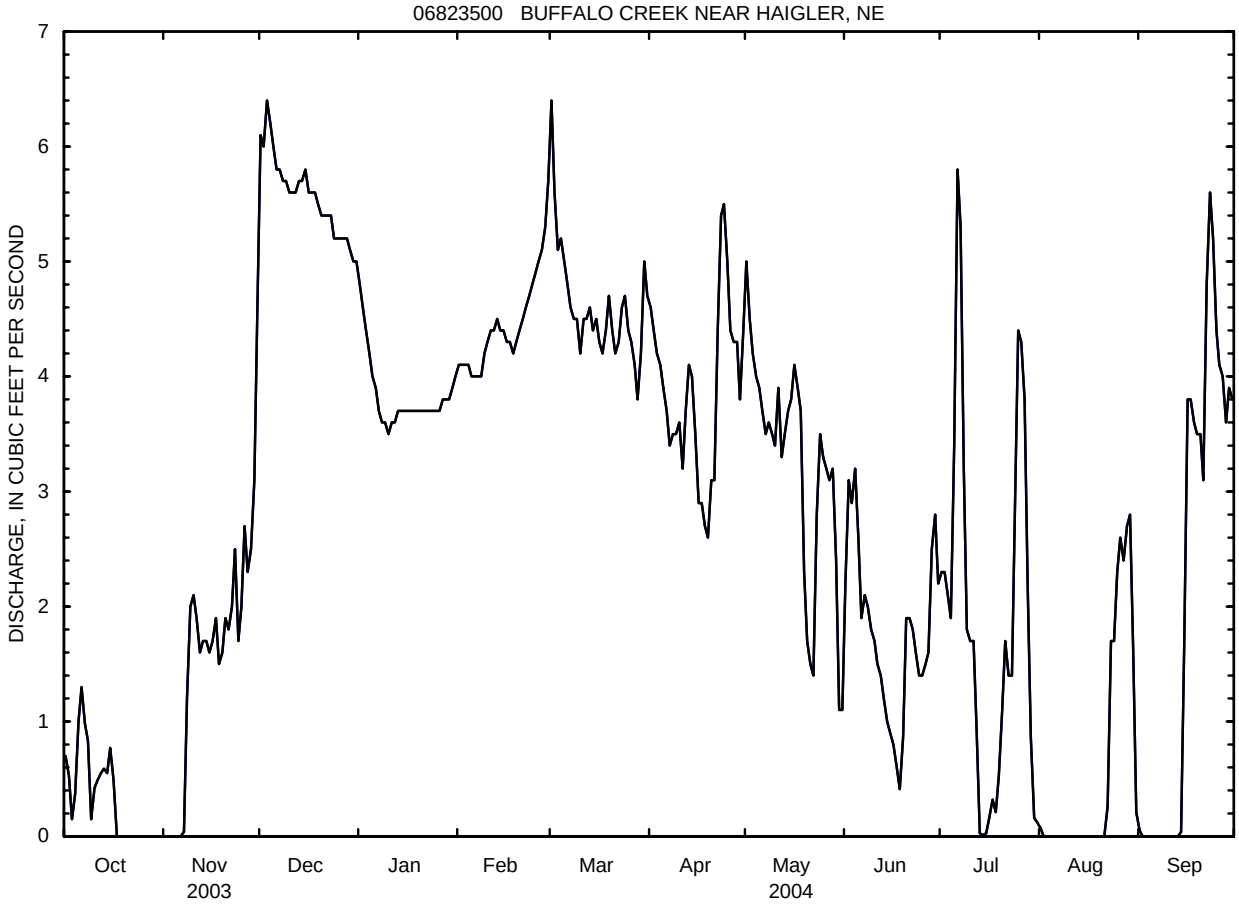
DRAINAGE AREA—172 mi^2, of which about 8.6 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—October 1940 to current year.

REVISED RECORDS—WSP 2119: 1948-50(M), 1957(M). WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 3,189.00 ft above sea level. Prior to Sept. 19, 1980, at site 0.5 mi upstream at datum 15.57 ft higher. Sept. 18, 1980 to June 4, 1996 on left bank 15 ft upstream from county highway bridge at datum 0.10 ft lower. June 4, 1996 to Nov. 7, 1996 135 ft downstream from county highway bridge, at datum 0.10 ft lower. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges, which are poor. Natural flow affected by diversion about 1 mi upstream for irrigation of 880 acres.



06823500 BUFFALO CREEK NEAR HAIGLER, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.70	0.00	6.1	e4.8	e4.1	6.4	4.6	5.0	2.2	2.3	0.07	0.05
2	0.53	0.00	6.0	e4.6	e4.1	5.6	4.4	4.5	3.1	2.3	0.00	0.00
3	0.15	0.00	6.4	e4.4	e4.1	5.1	4.2	4.2	2.9	2.1	0.00	0.00
4	0.37	0.00	6.2	e4.2	e4.1	5.2	4.1	4.0	3.2	1.9	0.00	0.00
5	1.0	0.00	e6.0	e4.0	e4.0	5.0	3.9	3.9	2.6	3.4	0.00	0.00
6	1.3	0.00	e5.8	e3.9	e4.0	4.8	3.7	3.7	1.9	5.8	0.00	0.00
7	0.98	0.04	e5.8	e3.7	e4.0	4.6	3.4	3.5	e2.1	5.3	0.00	0.00
8	0.83	1.2	e5.7	e3.6	e4.0	4.5	3.5	3.6	e2.0	3.2	0.00	0.00
9	0.15	2.0	e5.7	e3.6	e4.2	4.5	3.5	3.5	e1.8	1.8	0.00	0.00
10	0.42	2.1	e5.6	e3.5	e4.3	4.2	3.6	3.4	e1.7	1.7	0.00	0.00
11	0.49	1.9	e5.6	e3.6	e4.4	4.5	3.2	3.9	e1.5	1.7	0.00	0.00
12	0.55	1.6	e5.6	e3.6	e4.4	4.5	3.7	3.3	e1.4	0.93	0.00	0.00
13	0.59	1.7	e5.7	e3.7	e4.5	4.6	4.1	3.5	e1.2	0.03	0.00	0.00
14	0.55	1.7	e5.7	e3.7	e4.4	4.4	4.0	3.7	e1.0	0.01	0.00	0.04
15	0.77	1.6	e5.8	e3.7	e4.4	4.5	3.5	3.8	e0.90	0.03	0.00	1.7
16	0.49	1.7	e5.6	e3.7	e4.3	4.3	2.9	4.1	e0.80	0.16	0.00	3.8
17	0.00	1.9	e5.6	e3.7	e4.3	4.2	2.9	3.9	e0.60	0.32	0.00	3.8
18	0.00	1.5	e5.6	e3.7	e4.2	4.4	2.7	3.7	0.41	0.21	0.00	3.6
19	0.00	1.6	e5.5	e3.7	e4.3	4.7	2.6	2.3	0.87	0.53	0.00	3.5
20	0.00	1.9	e5.4	e3.7	e4.4	4.4	3.1	1.7	1.9	1.1	0.00	3.5
21	0.00	1.8	e5.4	e3.7	e4.5	4.2	3.1	1.5	1.9	1.7	0.00	3.1
22	0.00	2.0	e5.4	e3.7	e4.6	4.3	4.4	1.4	1.8	1.4	0.26	4.8
23	0.00	2.5	e5.4	e3.7	e4.7	4.6	5.4	2.8	1.6	1.4	1.7	5.6
24	0.00	1.7	e5.2	e3.7	e4.8	4.7	5.5	e3.5	1.4	2.8	1.7	5.2
25	0.00	2.0	e5.2	e3.7	e4.9	4.4	5.0	e3.3	1.4	4.4	2.3	4.4
26	0.00	2.7	e5.2	e3.7	e5.0	4.3	4.4	e3.2	1.5	4.3	2.6	4.1
27	0.00	2.3	e5.2	e3.8	5.1	4.1	4.3	3.1	1.6	3.8	2.4	4.0
28	0.00	2.5	e5.2	e3.8	5.3	3.8	4.3	3.2	2.5	2.2	2.7	3.6
29	0.00	3.1	e5.1	e3.8	5.7	4.2	3.8	2.4	2.8	0.86	2.8	3.9
30	0.00	4.6	e5.0	e3.9	---	5.0	4.4	1.1	2.2	0.16	1.6	3.8
31	0.00	---	e5.0	e4.0	---	4.7	---	1.1	---	0.12	0.21	---
TOTAL	9.87	47.64	172.7	118.6	129.1	142.7	116.2	99.8	52.78	57.96	18.34	62.49
MEAN	0.32	1.59	5.57	3.83	4.45	4.60	3.87	3.22	1.76	1.87	0.59	2.08
MAX	1.3	4.6	6.4	4.8	5.7	6.4	5.5	5.0	3.2	5.8	2.8	5.6
MIN	0.00	0.00	5.0	3.5	4.0	3.8	2.6	1.1	0.41	0.01	0.00	0.00
AC-FT	20	94	343	235	256	283	230	198	105	115	36	124

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2004, BY WATER YEAR (WY)

MEAN	6.49	7.69	7.87	8.07	8.62	8.91	8.77	7.50	5.40	2.54	2.36	4.05
MAX	12.6	12.1	13.7	12.7	12.9	14.3	14.2	12.5	13.2	11.0	19.7	15.2
(WY)	1943	1947	1946	1942	1960	1952	1944	1944	1962	1948	1950	1951
MIN	0.32	1.59	3.15	2.68	0.89	2.72	3.72	2.11	0.00	0.00	0.00	0.23
(WY)	2004	2004	1999	1998	1998	1998	2000	1965	1994	1997	2000	1998

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1941 - 2004	
ANNUAL TOTAL	1055.11		1028.18			
ANNUAL MEAN	2.89		2.81		6.51	
HIGHEST ANNUAL MEAN					10.9	1951
LOWEST ANNUAL MEAN					2.51	1998
HIGHEST DAILY MEAN	17	Mar 19	6.4	Dec 3	90	Aug 11 1950
LOWEST DAILY MEAN	0.00	Jul 1	0.00	Oct 17	0.00	Aug 3 1955
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 1	0.00	Oct 17	0.00	Aug 14 1973
MAXIMUM PEAK FLOW			*15	Jul 5	**140	Jun 27 1948
MAXIMUM PEAK STAGE			***2.14	Jan 7	***5.93	Jan 3 1976
ANNUAL RUNOFF (AC-FT)	2090		2040		4710	
10 PERCENT EXCEEDS	5.6		5.2		11	
50 PERCENT EXCEEDS	3.1		3.4		7.0	
90 PERCENT EXCEEDS	0.00		0.00		0.20	

e Estimated
* Stage 1.62 ft
** Stage 4.37 ft, site and datum then in use
*** Backwater from ice

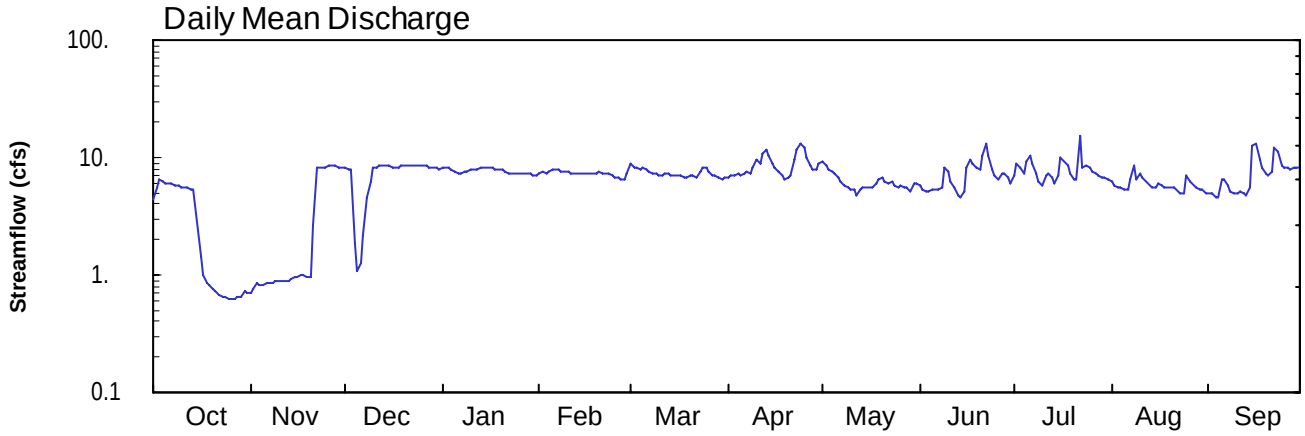
2004 Water Year

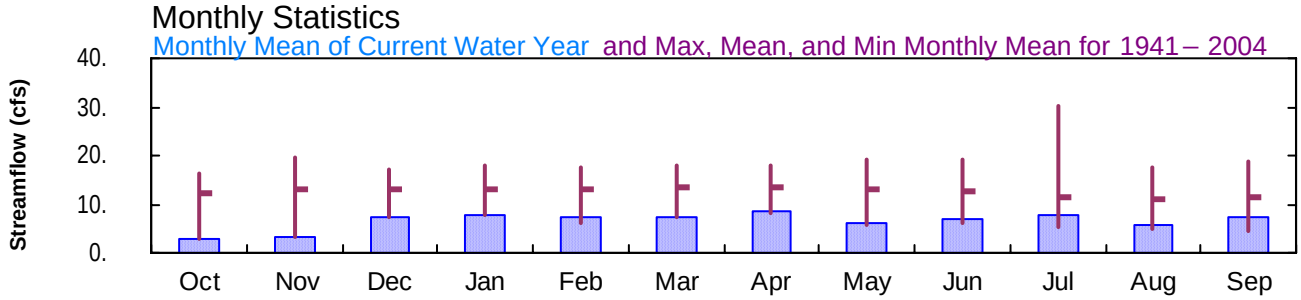
KANSAS RIVER BASIN

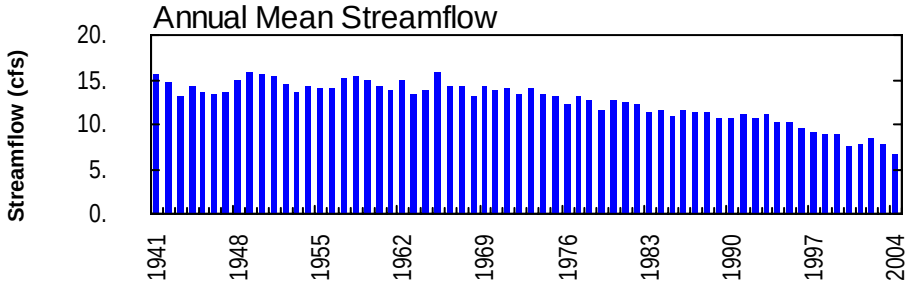
06824000 ROCK CREEK AT PARKS, NEBR.

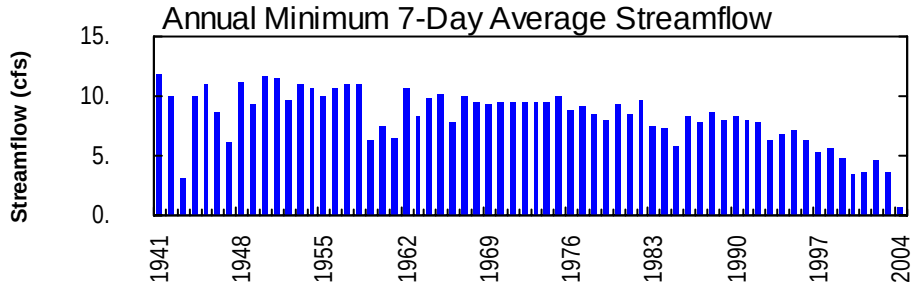
Latitude: 40°02'32" Longitude: 101°43'40" Hydrologic Unit Code: 10250002

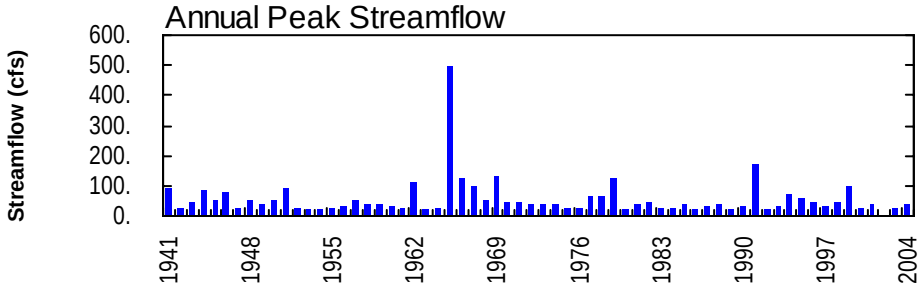
Dundy County Datum: 3093.35 feet Drainage Area: 23.6 mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06824000 ROCK CREEK AT PARKS, NE

LOCATION—Lat 40°02'30", long 101°43'40", in SW 1/4 NE 1/4 sec.21, T.1 N., R.39 W., Dundy County, Hydrologic Unit 10250002, on right bank at west edge of Parks, 100 ft downstream from county road bridge and 0.5 mi upstream from mouth.

DRAINAGE AREA—23.6 mi^2, of which about 20 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—October 1940 to current year.

REVISED RECORDS—WSP 1630: 1951(M). WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 3,093.35 ft above sea level. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges and daily discharges for September, which are poor. One diversion about 2 mi above station for irrigation of 215 acres; flow regulated at times by reservoir at State fish hatchery 7 mi upstream.

06824000 ROCK CREEK AT PARKS, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	0.72	8.1	8.1	7.2	8.9	6.9	9.3	5.7	7.1	6.2	4.9
2	5.6	0.75	7.9	8.2	7.5	8.4	7.0	8.6	5.4	8.9	5.9	4.9
3	6.4	0.85	8.0	8.2	7.3	8.2	7.1	8.0	5.2	8.2	5.6	4.6
4	6.2	0.83	1.8	e7.8	7.6	8.0	7.2	7.7	5.1	7.2	5.7	4.7
5	6.1	0.82	1.1	e7.6	7.9	8.2	6.9	7.2	5.3	9.1	5.3	6.5
6	6.0	0.85	1.3	7.3	e7.8	7.8	7.3	6.7	5.4	11	5.5	6.5
7	6.0	0.85	2.1	e7.4	e7.8	7.6	7.6	6.2	5.3	8.9	6.5	5.8
8	5.9	0.85	4.5	e7.6	e7.7	7.3	7.4	5.9	5.5	7.3	8.4	5.2
9	5.9	0.89	6.2	e7.6	7.6	7.2	8.3	5.6	8.3	6.2	6.6	4.9
10	5.5	0.88	e8.2	e7.8	7.5	7.2	9.5	5.4	7.6	5.9	7.4	5.0
11	5.5	0.88	e8.4	e7.8	7.4	7.1	9.1	5.3	6.4	7.0	6.9	5.1
12	5.5	0.90	8.6	e8.0	e7.4	7.3	11	4.9	5.6	7.4	6.4	5.0
13	5.4	0.90	e8.6	e8.1	e7.4	7.2	12	5.4	4.8	6.7	5.8	4.8
14	5.4	0.91	e8.5	e8.2	7.4	7.1	10	5.6	4.5	6.1	5.6	5.6
15	2.7	0.95	8.5	8.2	7.4	7.0	9.0	5.6	5.2	7.0	5.6	13
16	1.4	0.95	e8.4	8.2	7.3	7.0	8.1	5.6	8.2	10	6.0	13
17	1.0	1.0	8.2	8.1	7.2	6.9	7.6	5.6	9.5	9.4	5.9	9.5
18	0.85	0.99	8.3	7.9	7.3	6.9	7.0	6.0	9.0	8.4	5.5	8.3
19	0.82	0.95	8.4	7.9	7.4	6.9	6.5	6.5	8.3	7.3	5.5	7.4
20	0.76	0.95	8.4	7.8	7.5	7.0	6.6	6.6	8.0	6.6	5.6	7.1
21	0.74	2.6	8.5	7.6	7.3	7.0	7.0	6.3	10	6.5	5.5	7.7
22	0.67	e8.1	8.5	7.4	7.3	6.9	9.7	6.0	13	16	5.1	12
23	0.64	e8.2	8.4	7.4	7.2	7.5	12	6.2	11	8.1	5.0	11
24	0.65	e8.2	8.6	7.4	7.0	8.3	13	5.7	8.0	8.5	4.9	8.7
25	0.64	e8.2	8.5	7.4	6.9	8.1	12	5.7	7.1	8.2	7.0	8.3
26	0.63	e8.4	8.6	e7.4	6.7	7.6	9.9	5.8	6.6	7.7	6.4	8.1
27	0.63	8.4	8.4	e7.4	6.5	7.0	8.7	5.7	7.3	7.2	5.7	8.1
28	0.65	8.4	8.3	7.5	6.5	6.9	8.0	5.5	7.4	7.0	5.6	8.1
29	0.66	8.2	e8.3	e7.3	7.5	6.6	7.8	5.2	6.8	6.8	5.3	8.1
30	0.73	8.2	8.3	7.1	---	6.5	8.9	6.1	6.0	6.6	5.3	8.1
31	0.72	---	8.0	7.1	---	6.7	---	6.1	---	6.5	5.0	---
TOTAL	94.69	94.57	225.9	238.8	212.5	228.3	259.1	192.0	211.5	244.8	182.7	220.0
MEAN	3.05	3.15	7.29	7.70	7.33	7.36	8.64	6.19	7.05	7.90	5.89	7.33
MAX	6.4	8.4	8.6	8.2	7.9	8.9	13	9.3	13	16	8.4	13
MIN	0.63	0.72	1.1	7.1	6.5	6.5	6.5	4.9	4.5	5.9	4.9	4.6
AC-FT	188	188	448	474	421	453	514	381	420	486	362	436

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2004, BY WATER YEAR (WY)

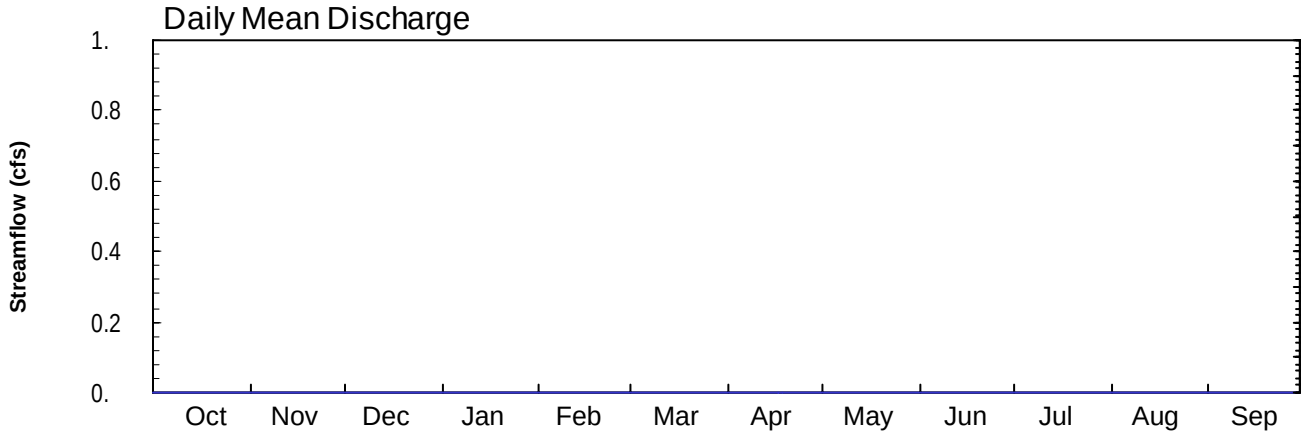
MEAN	12.1	13.0	12.9	13.0	13.3	13.4	13.3	13.2	12.7	11.5	11.0	11.3
MAX	16.2	19.7	17.1	17.9	17.5	18.1	18.1	19.0	19.0	30.3	17.7	18.8
(WY)	1966	1943	1941	1942	1949	1949	1949	1969	1965	1965	1950	1951
MIN	3.05	3.15	7.29	7.70	6.15	7.36	7.97	5.90	5.96	5.18	5.05	4.56
(WY)	2004	2004	2004	2004	2003	2004	2001	2000	2001	2001	2003	2003

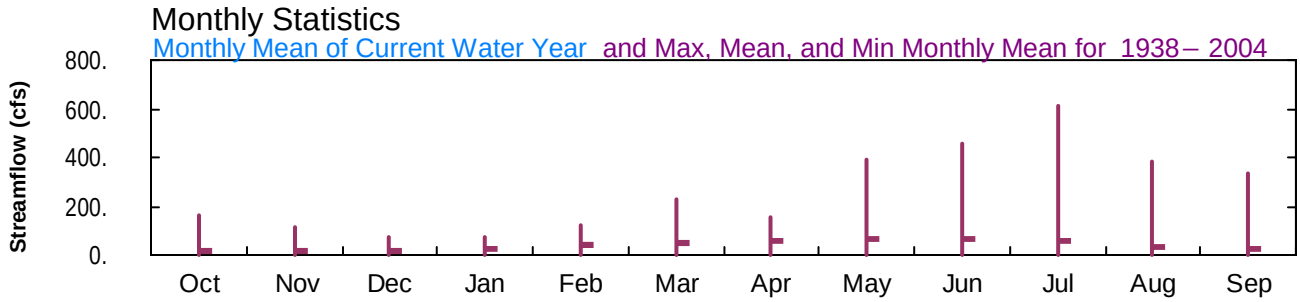
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1941 - 2004	
ANNUAL TOTAL	2374.66		2404.86			
ANNUAL MEAN	6.51		6.57		12.5	
HIGHEST ANNUAL MEAN					15.8	1949
LOWEST ANNUAL MEAN					6.57	2004
HIGHEST DAILY MEAN	26	Apr 30	16	Jul 22	111	Jul 6 1965
LOWEST DAILY MEAN	0.63	Oct 26	0.63	Oct 26	0.63	Oct 26 2003
ANNUAL SEVEN-DAY MINIMUM	0.64	Oct 23	0.64	Oct 23	0.64	Oct 23 2003
MAXIMUM PEAK FLOW			*39	Jul 22	493	Jul 5 1965
MAXIMUM PEAK STAGE			**2.30	Jan 8	6.00	Jul 5 1965
ANNUAL RUNOFF (AC-FT)	4710		4770		9090	
10 PERCENT EXCEEDS	9.5		8.6		16	
50 PERCENT EXCEEDS	6.6		7.1		13	
90 PERCENT EXCEEDS	1.2		1.2		8.5	

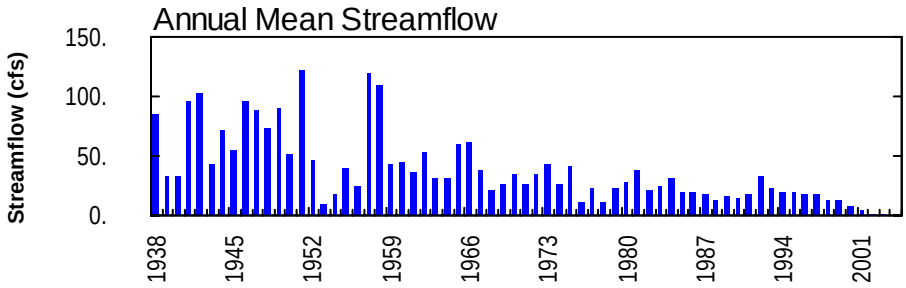
e Estimated
* Stage 2.28 ft
** Backwater from ice

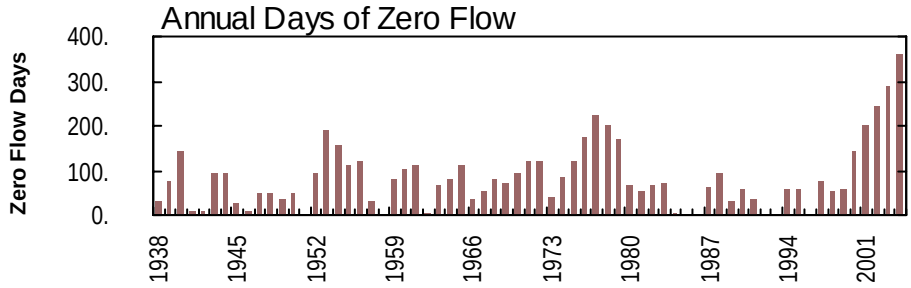
06827500 SOUTH FORK REPUBLICAN RIVER NEAR BENKELMAN, NEBR

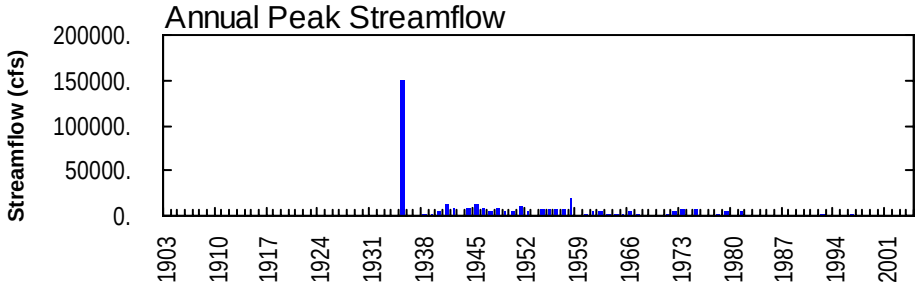
Latitude: 40° 00 ' 36" Longitude: 101°32 ' 31" Hydrologic Unit Code: 10250003
Dundy County Datum: 2989.91 feet Drainage Area: 2740. mi²











06827500 SOUTH FORK REPUBLICAN RIVER NEAR BENKELMAN, NE

LOCATION (REVISED)—Lat 40°00'34", long 101°32'32", in NE 1/4 SW 1/4 sec.31, T.1 N., R.37 W., Dundy County, Hydrologic Unit 10250003, on right bank at downstream side of bridge on State Highway 61, 1 mi downstream from Kansas-Nebraska State line, 2.5 mi southwest of Benkelman, and 3.4 mi upstream from mouth.

DRAINAGE AREA—2,740 mi^2, approximately, of which about 2,190 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—October 1894 to September 1895, October 1902 to November 1906, October 1930 to September 1932, August 1937 to current year. Published as South Fork of Republican River at Benkelman prior to 1906 and as Republican River at Benkelman 1931-32. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS—WSP 1310: 1904-6, 1931. WSP 1390: 1940, 1945, 1947. WSP 1919: 1951-52, 1954-56. WSP 2119: Drainage area. WDR NE-97: 1995 (M).

GAGE—Water-stage recorder. Datum of gage is 2,989.91 ft above sea level. Prior to Dec. 10, 1947, non-recording gages at several sites within 3.5 mi of present site at various datums. Dec.10, 1947 to Sept. 28, 1966 water-stage recorder 170 ft upstream at datum 3.00 ft higher and Sept. 29, 1966 to Mar. 7, 1968 at site 300 ft upstream at datum 3.00 ft higher. Mar. 8, 1968 to May 29, 1991 at site 300 ft upstream at datum 1.0 ft higher. May 30, 1991 to Sept. 30, 1998 at present site at datum 1.0 ft higher. Data collection platform at station.

REMARKS—Records fair. Natural flow affected by irrigation development above station, and since July 6, 1950, by storage in Bonny Reservoir.

06827500 SOUTH FORK REPUBLICAN RIVER NEAR BENKELMAN, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

MEAN	15.5	20.3	19.5	22.0	37.3	49.1	54.0	67.5	68.3	54.0	32.3	22.7
MAX	160	113	77.0	77.5	121	227	158	396	455	616	383	335
(WY)	1966	1970	1943	1943	1949	1942	1958	1957	1948	1946	1958	1951
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1940	1953	1953	1977	2003	2004	2004	2004	2002	1943	1940	1939

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL TOTAL	456.24		0.00			
ANNUAL MEAN	1.25		0.00		38.5	
HIGHEST ANNUAL MEAN					121	1951
LOWEST ANNUAL MEAN					0.00	2004
HIGHEST DAILY MEAN	16	Apr 9	0.00	Oct 1	6220	Aug 16 1958
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jul 3 1938
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Aug 1 1938
MAXIMUM PEAK FLOW			a		19600	Aug 16 1958
MAXIMUM PEAK STAGE					*8.70	Aug 16 1958
ANNUAL RUNOFF (AC-FT)	905		0.00		27910	
10 PERCENT EXCEEDS	5.3		0.00		82	
50 PERCENT EXCEEDS	0.00		0.00		17	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated
a No flow all year
* May have been higher during flood of June 24, 1945, site and datum then in use

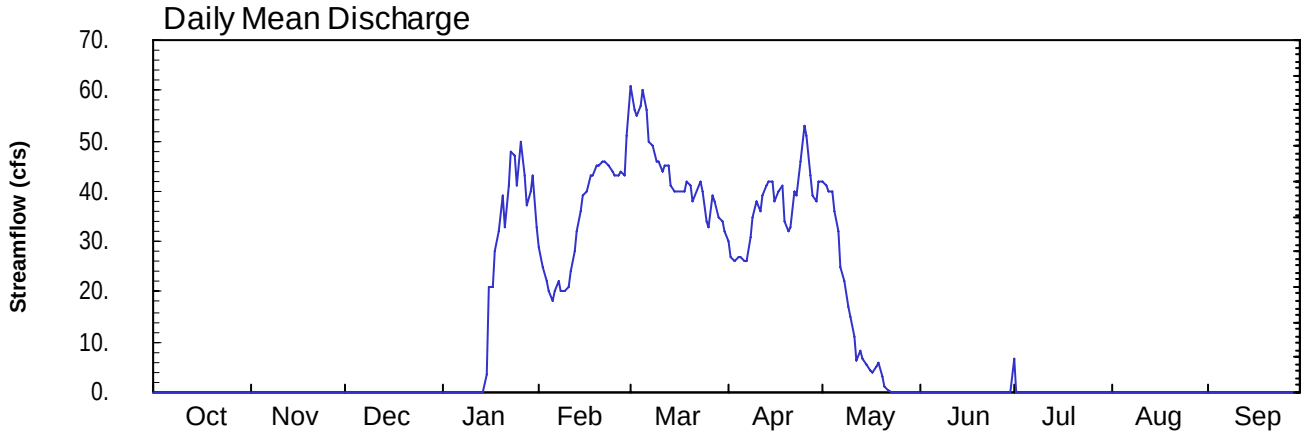
2004 Water Year

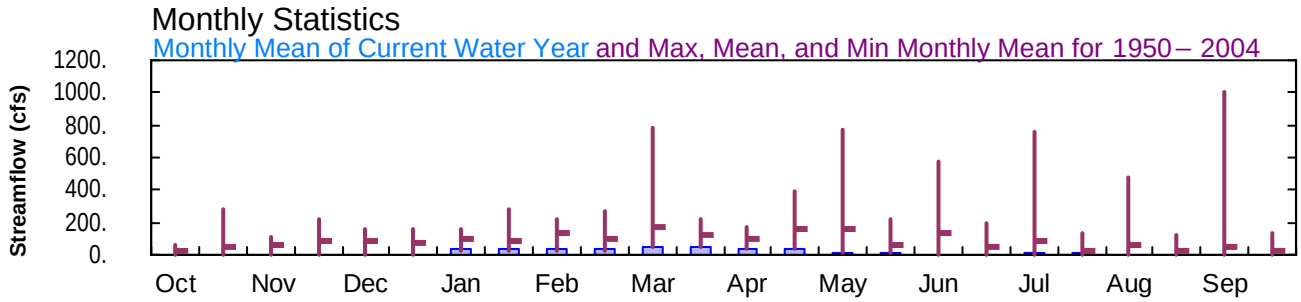
KANSAS RIVER BASIN

06828500 REPUBLICAN RIVER AT STRATTON, NEBR.

Latitude: 40° 08 ' 27" Longitude: 101° 13 ' 48" Hydrologic Unit Code: 10250004

Hitchcock County Datum: 2775.49 feet Drainage Area: 8200. mi²





06828500 REPUBLICAN RIVER AT STRATTON, NE

LOCATION—Lat 40°08'28", long 101°13'42", in SW 1/4 NW 1/4 sec.13, T.2 N., R.35 W., Hitchcock County, Hydrologic Unit 10250004, on right bank at downstream side of county bridge, 0.5 mi south of Stratton, 0.2 mi downstream from Muddy Creek, 10 mi upstream from Trenton Dam, 19 mi downstream from South Fork Republican River, and at mile 387.

DRAINAGE AREA—8,200 mi2, approximately, of which about 3,690 mi2 contributes directly to surface runoff.

PERIOD OF RECORD—July 1950 to current year.

REVISED RECORDS—WDR NE-73: 1968-71(M), 1972. WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder and crest-stage gage. Datum of gage is 2,775.49 ft above sea level. Prior to Aug. 1, 1967, at site 0.3 mi downstream at present datum. Data collection platform at station.

REMARKS—Records fair except for estimated daily discharges and daily discharges less than 7.0 ft^3/s, which are poor. Natural flow affected by irrigation development above station and by storage in Bonny Reservoir (station 06826000).

06828500 REPUBLICAN RIVER AT STRATTON, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	e29	61	30	42	0.00	6.8	0.00	0.00
2	0.00	0.00	0.00	0.00	e25	56	27	41	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	e22	55	26	40	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	e20	57	27	40	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	e18	60	27	36	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	e20	56	26	32	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	e22	50	26	25	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	e20	49	31	22	0.08	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	e20	46	35	17	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	e21	46	38	15	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	e24	44	36	11	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	e28	45	39	6.5	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	e32	45	41	8.2	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	e36	41	42	6.8	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	3.5	e39	40	42	5.5	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	21	e40	40	38	4.5	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	21	e43	40	40	4.0	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	28	e43	e40	41	5.1	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	32	e45	42	34	6.1	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	39	e45	41	32	3.2	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	33	e46	38	33	1.2	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	41	e46	40	40	0.32	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	48	45	42	39	0.04	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	47	44	40	46	0.01	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	41	43	34	53	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	e50	43	33	51	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	e43	44	39	43	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	37	43	38	39	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	40	51	35	38	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	43	---	34	42	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	e33	---	32	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	600.50	997	1359	1102	372.47	0.08	6.80	0.00	0.00
MEAN	0.00	0.00	0.00	19.4	34.4	43.8	36.7	12.0	0.00	0.22	0.00	0.00
MAX	0.00	0.00	0.00	50	51	61	53	42	0.08	6.8	0.00	0.00
MIN	0.00	0.00	0.00	0.00	18	32	26	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	1190	1980	2700	2190	739	0.2	13	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

MEAN	44.9	83.7	84.6	95.7	136	170	161	163	133	81.1	61.0	48.5
MAX	285	218	157	159	225	788	388	766	572	759	479	1005
(WY)	1966	1970	1966	1974	1963	1960	1980	1957	1951	1962	1950	1951
MIN	0.00	0.00	0.00	19.4	22.3	43.8	36.7	11.5	0.00	0.00	0.00	0.00
(WY)	1977	2003	2004	2004	2003	2004	2004	2002	2000	1954	1952	1952

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004		
ANNUAL TOTAL	6831.30		4437.85				
ANNUAL MEAN	18.7		12.1		104		
HIGHEST ANNUAL MEAN					304		1951
LOWEST ANNUAL MEAN					12.1		2004
HIGHEST DAILY MEAN	202	Apr 29	61	Mar 1	8180	Aug 1	1962
LOWEST DAILY MEAN	0.00	Jul 1	0.00	Oct 1	0.00	Jun 18	1952
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 1	0.00	Oct 1	0.00	Jun 18	1952
MAXIMUM PEAK FLOW			*68	Jan 23	26800	Jul 31	1962
MAXIMUM PEAK STAGE			**7.15	Feb 19	***9.34	Jul 31	1962
ANNUAL RUNOFF (AC-FT)	13550		8800		75420		
10 PERCENT EXCEEDS	50		42		210		
50 PERCENT EXCEEDS	0.00		0.00		76		
90 PERCENT EXCEEDS	0.00		0.00		0.00		

e Estimated
* Stage 6.85 ft
** Backwater from ice
*** Site and datum then in use

06832000 ENDERS RESERVOIR NEAR ENDERS, NE

LOCATION—Lat 40°25'05", long 101°30'55", in NE 1/4 sec.9, T.5 N., R.37 W., Chase County, Hydrologic Unit 10250005, near right bank in control house at outlet tube of Enders Dam on Frenchman Creek, 2.2 mi southeast of Enders.

DRAINAGE AREA—950 mi^2, approximately, of which about 790 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—October 1950 to current year.

REVISED RECORDS—WSP 2119: Drainage area.

GAGE—Water-stage recorder: Electronic data-logger. Datum of gage is sea level. Prior to Sept. 3, 1960, mercury-column pressure gage at same datum.

REMARKS—Reservoir is formed by earthfill dam; storage began Oct. 23, 1950. Capacity, 36,010 acre-ft between elevations 3,080.0 ft, sill of outlet gates, and 3,112.3 ft, top of storage pool. Top of flood-control pool at elevation 3,127.0 ft, capacity, 74,520 acre-ft. Top of superstorage flood-control pool at elevation 3,129.5 ft, capacity, 80,730 acre-ft. Dead storage, 8,470 acre-ft. Figures given herein represent total contents. Water used for irrigation in Frenchman-Cambridge irrigation project.

COOPERATION—Capacity table furnished by Bureau of Reclamation (Effective Jan. 1, 1999).

EXTREMES FOR PERIOD OF RECORD—Maximum contents observed, 55,330 acre-ft Mar. 25, 1960, elevation, 3,118.20 ft; minimum since operation of reservoir began, 8,870 acre-ft Aug. 28, 1978, elevation, 3,080.67 ft.

EXTREMES FOR CURRENT YEAR—Maximum contents, 12,150 acre-ft May 12, elevation, 3,087.04 ft; minimum, 10,770 acre-ft Nov. 1, elevation, 3,085.14 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

3,080	7,516
3,085	10,670
3,090	14,510
3,100	25,000

06832000 ENDERS RESERVOIR NEAR ENDERS, NE—Continued

Reservoir storage, acre feet
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10910	10800	10930	11180	11460	11770	11860	12110	12000	11910	11850	11400
2	10910	10800	10950	11180	11470	11770	11880	12120	12000	11910	11850	11370
3	10900	10810	10950	11190	11480	11790	11880	12110	11970	11910	11830	11330
4	10900	10830	10960	11200	11500	11810	11870	12120	11970	11910	11830	11350
5	10900	10830	10950	11230	11530	11820	11880	12120	11970	11910	11780	11320
6	10900	10840	10970	11230	11520	11820	11880	12100	11970	11900	11760	11310
7	10890	10840	10980	11240	11540	11820	11880	12100	11940	11890	11760	11280
8	10890	10850	11000	11250	11550	11820	11880	12110	11940	11880	11740	11250
9	10880	10840	11010	11270	11560	11830	11910	12100	11920	11870	11720	11250
10	10880	10850	11020	11280	11560	11850	11920	12110	11970	11890	11720	11250
11	10870	10850	11000	11280	11570	11820	11930	12080	11960	11910	11710	11250
12	10850	10860	11010	11280	11570	11840	12010	12090	11930	11910	11680	11240
13	10840	10850	11040	11280	11570	11850	12000	12090	11930	11890	11660	11210
14	10850	10860	11030	11300	11590	11840	12010	12080	11900	11880	11630	11200
15	10850	10880	11040	11310	11600	11860	12010	12090	11890	11850	11620	11240
16	10830	10870	11050	11330	11600	11850	12030	12090	11900	11860	11630	11230
17	10840	10870	11050	11330	11600	11850	12030	12080	11920	11850	11610	11230
18	10830	10880	11050	11330	11620	11840	12020	12080	11930	11820	11600	11200
19	10830	10870	11070	11350	11640	11850	12000	12090	11920	11810	11600	11190
20	10830	10870	11080	11350	11630	11850	12040	12090	11890	11800	11580	11160
21	10830	10880	11100	11370	11640	11840	12010	12090	11940	11760	11560	11150
22	10830	10880	11100	11380	11650	11850	12060	12120	11930	11860	11540	11230
23	10830	10900	11100	11390	11670	11850	12060	12100	11920	11890	11530	11230
24	10810	10910	11110	11390	11660	11860	12100	12090	11900	11910	11510	11220
25	10810	10900	11120	11400	11680	11870	12090	12080	11900	11910	11520	11220
26	10810	10900	11130	11410	11680	11860	12120	12090	11880	11900	11500	11200
27	10800	10930	11140	11420	11690	11870	12100	12070	11880	11870	11490	11200
28	10800	10930	11150	11410	11680	11880	12100	12060	11870	11860	11470	11170
29	10830	10930	11160	11430	11750	11870	12090	12090	11850	11840	11450	11170
30	10800	10930	11150	11430	---	11870	12100	12090	11840	11880	11430	11170
31	10790	---	11160	11450	---	11870	---	12040	---	11870	11410	---
MAX	10910	10930	11160	11450	11750	11880	12120	12120	12000	11910	11850	11400
MIN	10790	10800	10930	11180	11460	11770	11860	12040	11840	11760	11410	11150
(*)	3085.17	3085.37	3085.69	3086.09	3086.50	3086.66	3086.97	3086.89	3086.62	3086.66	3086.04	3085.70
(**)	-130	+140	+230	+290	+300	+120	+230	-60	-200	+30	-460	-240

CAL YR 2003 MAX 13730 MIN 10790 (**) -330
WTR YR 2004 MAX 12120 MIN 10790 (**) +250
(*) Elevation in feet, at end of month
(**) Change in contents, in acre-feet

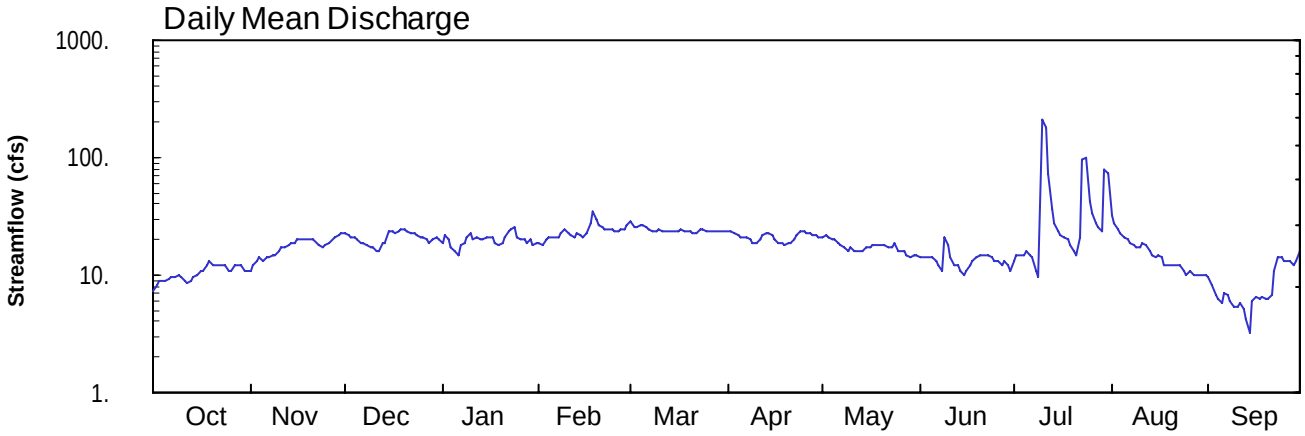
2004 Water Year

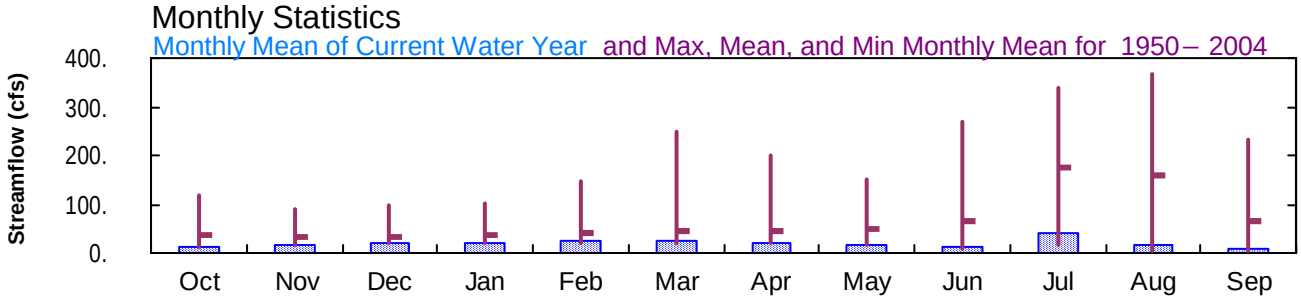
KANSAS RIVER BASIN

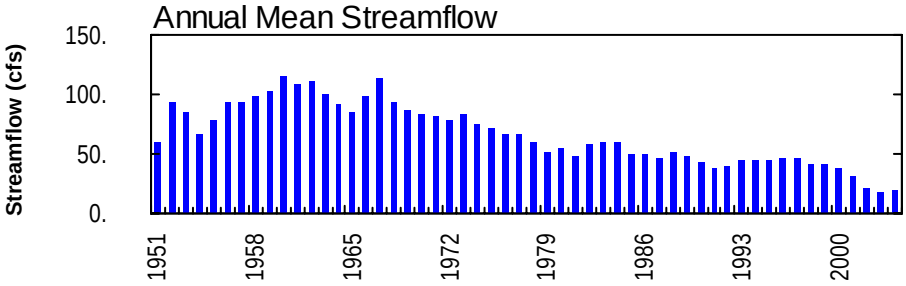
06834000 FRENCHMAN CREEK AT PALISADE, NEBR.

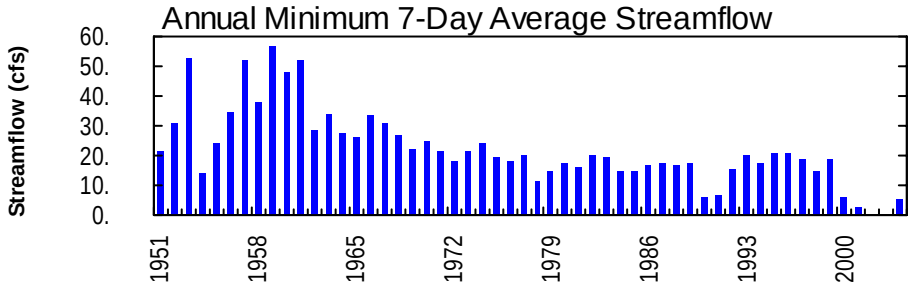
Latitude: 40°21'06" Longitude: 101°07'25" Hydrologic Unit Code: 10250005

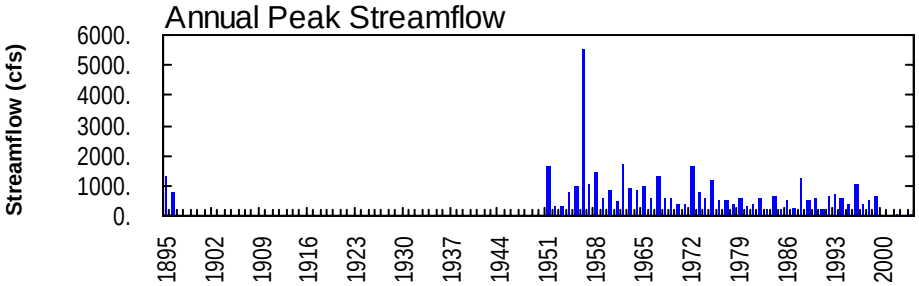
Hayes County Datum: 2743.49 feet Drainage Area: 1300. mi²











NO PHOTOS AVAILABLE FOR THIS SITE

06834000 FRENCHMAN CREEK AT PALISADE, NE

LOCATION—Lat 40°21'07", long 101°07'24", in SW 1/4 SE 1/4 sec.36, T.5 N., R.34 W., Hayes County, Hydrologic Unit 10250005, on right bank at upstream side of bridge on U.S. Highway 6, 0.7 mi west of Palisade, 1.5 mi upstream from Stinking Water Creek, and at mile 30.2.

DRAINAGE AREA—1,300 mi^2, approximately, of which about 1,110 mi^2 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 1894 to October 1896 and October 1965 to September 1972.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 2,743.49 ft above sea level. October 1894 to October 1896, non-recording gage at railroad bridge 0.4 mi downstream at different datum; June 1950 to Feb. 7, 1977 recording gage at site 2,000 ft upstream at datum 4.0 ft higher.

REMARKS—Records good except for periods of estimated record, which are poor. Natural flow affected by irrigation development above station and, since Oct. 23, 1950, by storage in Enders Reservoir (station 06832000).

COOPERATION—Records provided by Nebraska Department of Natural Resources and reviewed by the U.S. Geological Survey.

06834000 FRENCHMAN CREEK AT PALISADE, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	11	e23	e19	e19	29	24	21	14	13	32	9.5
2	8.2	12	e22	e22	e18	26	24	22	14	15	28	8.2
3	8.9	13	e21	e20	e20	26	23	21	14	15	25	6.9
4	8.9	14	e21	e17	e21	27	22	20	14	15	23	6.3
5	8.9	13	e20	e16	e21	27	21	20	14	16	21	5.9
6	9.3	14	e19	e15	e21	26	21	19	13	15	20	7.1
7	9.6	14	e19	e18	e21	25	21	18	12	14	19	6.9
8	9.5	15	e18	e19	e23	24	20	17	11	11	18	6.1
9	10	15	e17	e21	e25	24	19	16	21	9.7	17	5.3
10	9.5	16	e17	e23	e23	25	19	17	18	206	17	5.3
11	8.8	17	e16	e20	e22	24	20	16	14	182	19	5.8
12	8.4	17	e16	e21	e21	24	22	16	12	73	18	5.2
13	9.0	18	e19	e20	e23	24	23	16	12	36	16	4.2
14	9.8	19	e19	e20	e22	24	23	16	11	28	15	3.2
15	10	19	e24	e21	e21	24	22	17	10	24	14	6.1
16	11	20	e24	e21	e23	24	20	17	11	22	15	6.6
17	11	20	e23	e21	e28	25	19	18	12	21	14	6.3
18	12	20	e24	e19	e35	24	19	18	13	20	12	6.5
19	13	20	e25	e18	30	24	18	18	14	18	12	6.2
20	12	20	e25	e19	27	24	19	18	15	16	12	6.3
21	12	20	e24	e21	26	23	19	18	15	15	12	6.8
22	12	19	e23	e24	25	23	20	17	15	21	12	11
23	12	e18	e23	e25	25	25	22	17	15	96	12	14
24	12	e17	e22	e26	25	25	24	19	14	101	11	14
25	11	e18	e21	e21	24	24	24	16	13	42	10	13
26	11	e19	e21	e20	24	24	23	16	13	33	11	13
27	12	e20	e20	e20	25	24	23	16	12	28	10	13
28	12	e21	e19	e19	25	24	22	15	13	26	10	12
29	12	e22	e20	e20	27	24	22	14	12	24	10	13
30	11	e23	e21	e18	---	24	21	15	11	78	10	16
31	11	---	e20	e19	---	24	---	15	---	73	10	---
TOTAL	323.2	524	646	623	690	764	639	539	402	1306.7	485	249.7
MEAN	10.4	17.5	20.8	20.1	23.8	24.6	21.3	17.4	13.4	42.2	15.6	8.32
MAX	13	23	25	26	35	29	24	22	21	206	32	16
MIN	7.4	11	16	15	18	23	18	14	10	9.7	10	3.2
AC-FT	641	1040	1280	1240	1370	1520	1270	1070	797	2590	962	495

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

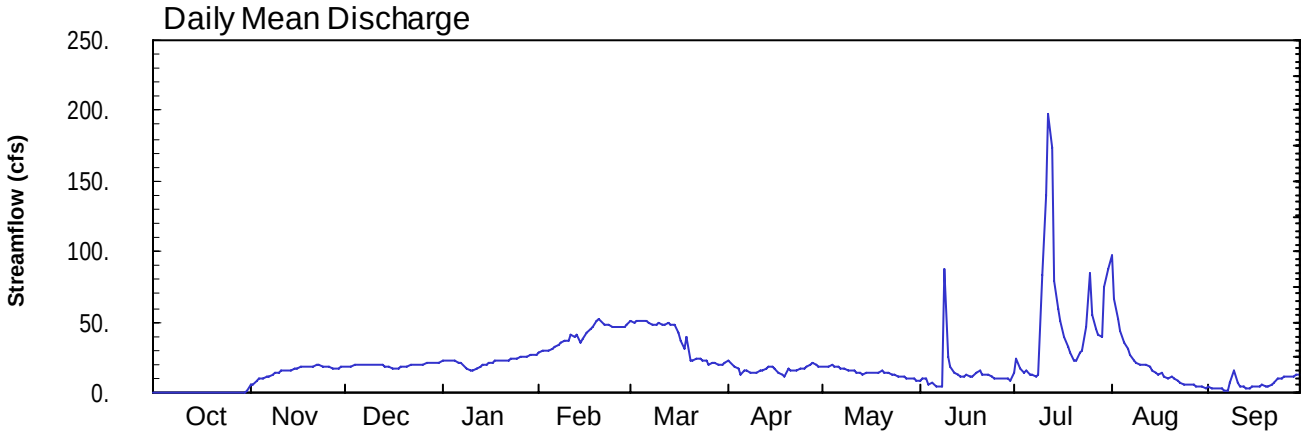
MEAN	37.8	34.3	34.5	36.5	41.3	45.8	45.3	50.2	67.3	174	159	63.7
MAX	120	88.9	97.4	102	147	247	198	151	270	340	367	232
(WY)	1963	1959	1959	1953	1952	1960	1960	1957	1967	1968	1962	1962
MIN	10.2	16.9	20.8	19.3	22.1	21.5	21.3	16.4	8.61	18.1	3.41	2.25
(WY)	2003	2003	2004	1979	2003	2003	2004	2002	2002	2003	2002	2002

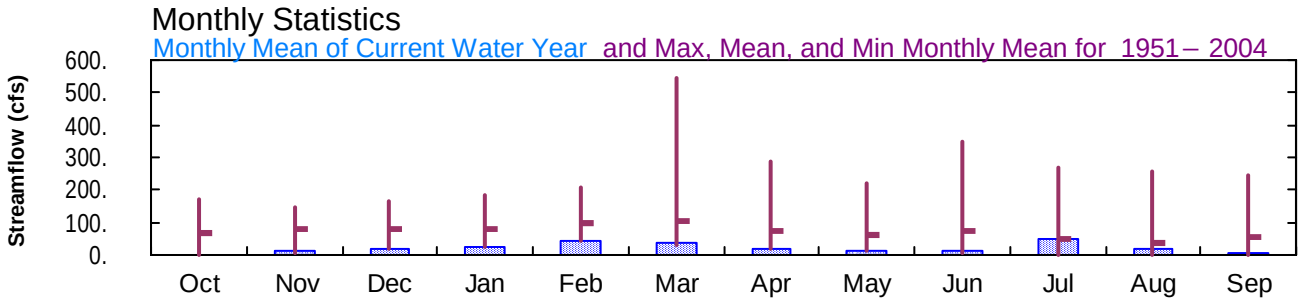
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 – 2004a	
ANNUAL TOTAL	6661.50		7191.6			
ANNUAL MEAN	18.3		19.6		66.4	
HIGHEST ANNUAL MEAN					115	1960
LOWEST ANNUAL MEAN					18.3	2003
HIGHEST DAILY MEAN	80	Jun 18	206	Jul 10	2090	Jun 17 1956
LOWEST DAILY MEAN	0.01	Aug 24	3.2	Sep 14	0.01	Aug 24 2003
ANNUAL SEVEN-DAY MINIMUM	0.03	Aug 21	5.0	Sep 8	0.03	Aug 21 2003
MAXIMUM PEAK FLOW			590	Jul 10	5560	Jun 17 1956
MAXIMUM PEAK STAGE			7.42	Jul 10	*8.79	Jun 17 1956
ANNUAL RUNOFF (AC-FT)	13210		14260		48070	
10 PERCENT EXCEEDS	27		25		156	
50 PERCENT EXCEEDS	20		19		35	
90 PERCENT EXCEEDS	5.1		10		21	

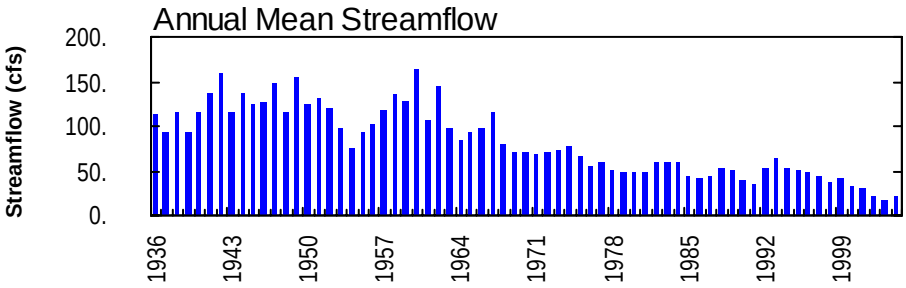
e Estimated
a Since beginning of storage in Enders Reservoir
* Site and datum then in use

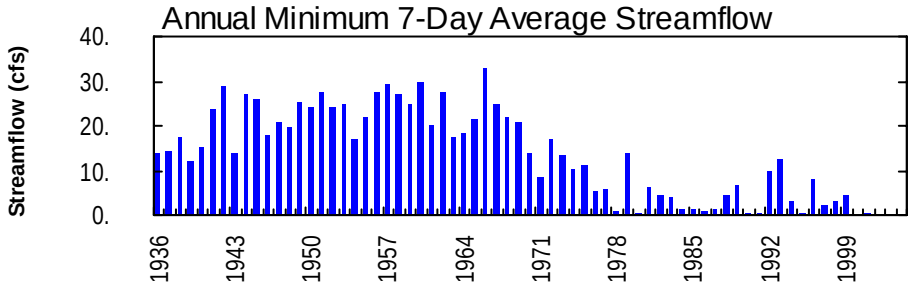
06835500 FRENCHMAN CREEK AT CULBERTSON, NEBR.

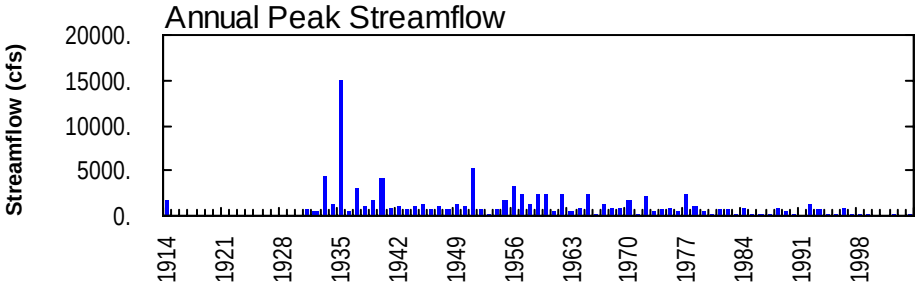
Latitude: 40° 14 ' 05" Longitude: 100° 52 ' 40" Hydrologic Unit Code: 10250005
Hitchcock County Datum: 2583.44 feet Drainage Area: 2990. mi²











06835500 FRENCHMAN CREEK AT CULBERTSON, NE

LOCATION—Lat 40°14'05", long 100°52'40", in SW 1/4 SE 1/4 sec. 12, T.3 N., R.32 W., Hitchcock County, Hydrologic Unit 10250005, on right bank 8 ft upstream from bridge on U.S. Highways 6 and 34, 2 mi west of Culbertson, and 4.0 mi upstream from mouth.

DRAINAGE AREA—2,990 mi^2, of which about 1,590 mi^2 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.

REVISED RECORDS—WSP 1390: 1931, 1933, 1934(M), 1938(M). WDR NE-84-1: 1979, 1982(M). WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 2,583.44 ft above sea level. See WSP 1919 for history of changes prior to Nov. 2, 1950. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor. Natural flow affected by irrigation development above station and, since Oct. 23, 1950, by storage in Enders Reservoir (station 06832000). Principal diversion is by Culbertson Canal, 20,800 acres.

EXTREME FOR TOTAL PERIOD OF RECORD—Maximum discharge, 15,000 ft^3/s (estimated), May 31, 1935, gage height 14.80 ft, from floodmark.

06835500 FRENCHMAN CREEK AT CULBERTSON, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	5.4	e18	e22	e28	51	22	18	9.0	14	97	3.6
2	0.00	5.9	e19	e22	e29	49	20	18	9.2	24	67	3.0
3	0.00	8.5	e19	e22	e29	50	19	18	9.3	16	52	2.4
4	0.00	9.4	e20	e22	e29	50	18	19	6.1	13	44	2.3
5	0.00	10	e20	e22	e31	51	13	19	6.9	15	36	2.4
6	0.00	11	e20	e21	e33	50	15	18	4.9	13	31	2.1
7	0.00	12	e20	e21	e34	49	15	17	4.8	12	26	2.0
8	0.00	13	e20	e19	e35	48	14	17	4.5	12	23	6.5
9	0.00	13	e20	e17	e36	48	14	16	87	12	21	16
10	0.00	15	e20	e16	37	49	15	16	25	83	20	6.9
11	0.00	15	e20	e16	40	48	15	15	18	140	20	4.5
12	0.00	15	e20	e17	40	48	16	14	14	197	20	4.3
13	0.00	15	e20	e18	40	49	17	14	13	174	18	3.1
14	0.00	16	e19	e19	36	48	18	13	12	79	16	2.6
15	0.00	17	e19	e20	38	48	18	14	11	59	14	3.7
16	0.00	18	e18	e21	43	42	17	14	12	51	13	3.7
17	0.00	18	e18	e21	45	36	15	15	11	39	14	4.8
18	0.00	18	e18	e22	47	31	13	14	11	32	12	5.1
19	0.00	18	e19	e22	51	40	12	14	15	28	10	4.3
20	0.00	19	e19	e22	52	23	17	15	15	23	11	4.5
21	0.00	19	e19	e23	49	23	16	15	13	23	10	5.0
22	0.00	e20	e20	e23	48	23	15	14	13	28	8.9	6.8
23	0.00	e20	e20	e24	47	24	16	13	12	30	7.5	9.4
24	0.00	e19	e20	e24	46	23	17	13	11	47	6.2	9.5
25	0.00	e18	e20	e24	46	22	17	11	10	84	6.3	11
26	0.00	e18	e20	e25	46	20	18	11	10	55	5.6	11
27	0.00	e17	e21	e26	46	21	19	11	10	45	5.0	11
28	0.00	e17	e21	e26	46	21	22	9.9	10	41	4.8	12
29	0.00	e17	e21	e27	48	20	20	9.7	9.2	40	4.4	12
30	0.08	e18	e21	e27	---	19	19	9.4	8.7	75	3.6	13
31	1.6	---	e21	e27	---	20	---	9.0	---	87	3.3	---
TOTAL	1.68	455.2	610	678	1175	1144	502	444.0	405.6	1591	630.6	188.5
MEAN	0.05	15.2	19.7	21.9	40.5	36.9	16.7	14.3	13.5	51.3	20.3	6.28
MAX	1.6	20	21	27	52	51	22	19	87	197	97	16
MIN	0.00	5.4	18	16	28	19	12	9.0	4.5	12	3.3	2.0
AC-FT	3.3	903	1210	1340	2330	2270	996	881	805	3160	1250	374

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	66.9	78.0	77.2	78.4	95.4	107	75.1	62.2	72.8	46.4	35.9	53.0
MAX	172	146	162	182	210	543	290	222	351	269	258	245
(WY)	1963	1963	1959	1953	1952	1960	1960	1952	1967	1962	1962	1951
MIN	0.00	5.13	16.9	21.9	40.5	31.8	16.7	12.4	4.57	0.32	0.15	0.00
(WY)	2003	2003	2003	2004	2004	2003	2004	2002	2000	2002	2003	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 – 2004a	
ANNUAL TOTAL	6736.77		7825.58			
ANNUAL MEAN	18.5		21.4		70.5	
HIGHEST ANNUAL MEAN					165	1960
LOWEST ANNUAL MEAN					17.4	2003
HIGHEST DAILY MEAN	54	Apr 30	197	Jul 12	3060	Jun 18 1956
LOWEST DAILY MEAN	0.00	Aug 19	0.00	Oct 1	0.00	Aug 7 1980
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 19	0.00	Oct 1	0.00	Aug 18 2000
MAXIMUM PEAK FLOW			225	Jul 13	5260	Jun 17 1951
MAXIMUM PEAK STAGE			5.75	Jul 13	10.43	Jun 17 1951
ANNUAL RUNOFF (AC-FT)	13360		15520		51070	
10 PERCENT EXCEEDS	43		47		127	
50 PERCENT EXCEEDS	18		18		60	
90 PERCENT EXCEEDS	0.00		2.5		14	

e Estimated
a Since beginning of storage in Enders Reservoir

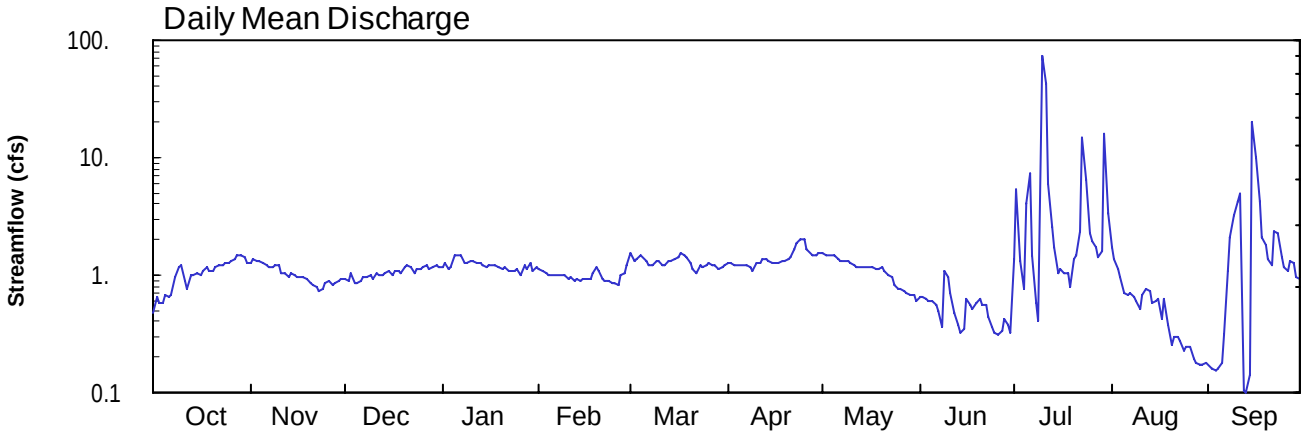
2004 Water Year

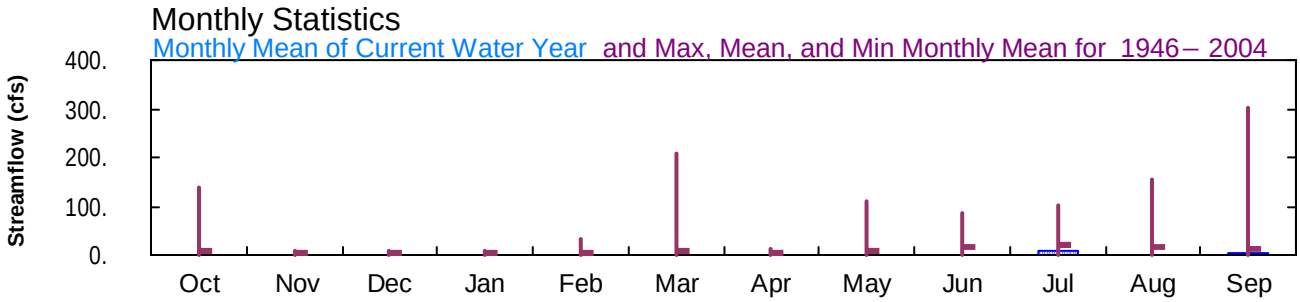
KANSAS RIVER BASIN

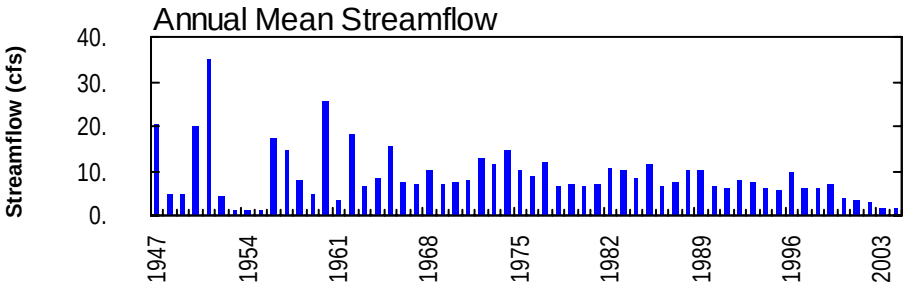
06836500 DRIFTWOOD CREEK NEAR MC COOK, NEBR.

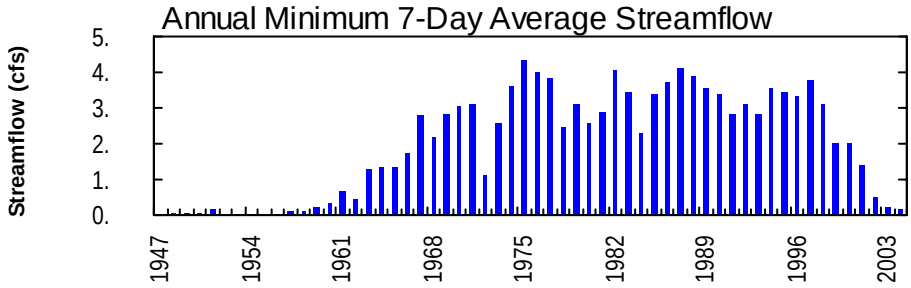
Latitude: 40° 08 ' 45" Longitude: 100° 40 ' 22" Hydrologic Unit Code: 10250004

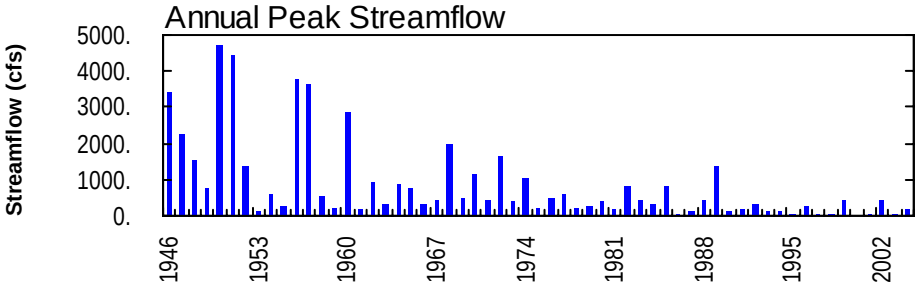
Red willow County Datum: 2502.78 feet Drainage Area: 361. mi^2











06836500 DRIFTWOOD CREEK NEAR MCCOOK, NE

LOCATION—Lat 40°08'45", long 100°40'22", in SW 1/4 SE 1/4 sec.11, T.2 N., R.30 W., Red Willow County, Hydrologic Unit 10250004, on right bank downstream from county road bridge, 5.8 mi upstream from mouth, and 3.5 mi southwest of McCook.

DRAINAGE AREA—361 mi^2, of which about 351 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—March 1946 to current year.

REVISED RECORDS—WSP 1210: 1950. WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 2,502.78 ft above sea level. Prior to Oct. 12, 1962, at site 1.5 mi downstream in old channel at datum 9.00 ft lower, Oct. 12, 1962 to Apr. 11, 1963 at site 1.8 mi downstream at datum 12.75 ft lower, Apr. 12, 1963 to Apr. 22, 1982 at site 1.3 mi downstream at datum 9.00 ft lower, and Apr. 22, 1982 to May 29, 1992 at site 3.2 mi downstream at datum 17.55 ft lower. Data collection platform at station.

REMARKS—Records fair. Natural flow affected by waste from Meeker-Driftwood Canal and by irrigation development above station.

06836500 DRIFTWOOD CREEK NEAR MC COOK, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.49	1.2	0.91	1.2	1.1	1.5	1.3	1.6	0.65	1.4	1.7	0.17
2	0.65	1.4	0.89	1.3	1.1	1.3	1.3	1.5	0.65	5.4	1.4	0.16
3	0.58	1.3	1.0	1.1	1.0	1.4	1.2	1.5	0.63	1.3	1.1	0.15
4	0.58	1.3	0.87	1.2	1.0	1.5	1.2	1.5	0.59	0.75	0.96	0.16
5	0.67	1.3	0.85	e1.5	1.0	1.4	1.2	1.5	0.60	4.1	0.71	0.18
6	0.65	1.2	0.87	e1.5	1.0	1.3	1.2	1.4	0.56	7.2	0.68	0.31
7	0.68	1.2	0.97	1.5	e1.0	1.2	1.2	1.3	0.50	1.5	0.71	1.1
8	0.97	1.2	0.96	1.3	1.0	1.2	1.2	1.3	0.37	0.58	0.65	2.1
9	1.2	1.2	1.0	1.3	1.0	1.3	1.1	1.3	1.1	0.40	0.59	3.2
10	1.2	1.2	0.92	1.3	0.93	1.3	1.2	1.2	0.96	72	0.51	4.3
11	0.89	1.0	1.0	1.3	0.96	1.2	1.3	1.2	0.71	42	0.67	5.0
12	0.77	1.0	1.0	1.3	0.88	1.2	1.4	1.2	0.49	6.1	0.75	0.11
13	1.0	0.97	1.0	1.2	0.92	1.3	1.4	1.2	0.37	2.5	0.73	0.10
14	1.0	1.0	1.0	1.2	0.89	1.3	1.3	1.2	0.32	1.7	0.58	0.14
15	1.0	1.0	1.1	1.2	0.92	1.4	1.3	1.2	0.35	1.1	0.60	21
16	1.0	0.97	1.0	1.2	0.93	1.4	1.3	1.2	0.62	1.1	0.63	9.9
17	1.1	0.97	1.1	1.2	0.91	1.5	1.3	1.2	0.56	1.0	0.42	4.3
18	1.2	0.97	1.1	1.2	1.0	1.5	1.3	1.1	0.51	1.0	0.63	2.1
19	1.1	0.94	1.0	1.2	1.2	1.4	1.3	1.1	0.57	0.81	0.37	1.8
20	1.1	0.85	1.1	1.1	1.1	1.3	1.4	1.2	0.62	1.4	0.26	1.4
21	1.2	0.81	1.2	1.2	0.91	1.1	1.4	1.1	0.56	1.5	0.29	1.2
22	1.2	0.78	1.1	1.1	0.90	1.0	1.7	1.0	0.56	2.4	0.30	e2.3
23	1.2	0.74	1.0	1.1	0.87	1.2	1.9	0.97	0.44	15	0.27	e2.2
24	1.3	0.76	1.1	1.1	0.86	1.2	2.0	0.81	0.37	6.6	0.23	1.4
25	1.3	0.85	1.1	1.1	0.85	1.2	2.0	0.76	0.32	2.3	0.25	1.2
26	1.3	0.87	1.2	1.0	0.84	1.3	1.7	0.77	0.31	2.0	0.24	1.1
27	1.4	0.83	1.2	1.2	0.99	1.2	1.5	0.74	0.34	1.7	0.19	1.3
28	1.5	0.85	1.1	1.1	1.0	1.2	1.5	0.70	0.42	1.4	0.18	1.3
29	1.5	0.89	1.2	1.3	1.2	1.1	1.5	0.68	0.37	1.6	0.17	0.94
30	1.4	0.93	1.2	1.1	---	1.2	1.5	0.68	0.32	16	0.17	0.94
31	1.3	---	1.2	1.1	---	1.2	---	0.61	---	3.3	0.18	---
TOTAL	32.43	30.48	32.24	37.7	28.26	39.8	42.1	34.72	15.74	207.14	17.12	71.56
MEAN	1.05	1.02	1.04	1.22	0.97	1.28	1.40	1.12	0.52	6.68	0.55	2.39
MAX	1.5	1.4	1.2	1.5	1.2	1.5	2.0	1.6	1.1	72	1.7	21
MIN	0.49	0.74	0.85	1.0	0.84	1.0	1.1	0.61	0.31	0.40	0.17	0.10
AC-FT	64	60	64	75	56	79	84	69	31	411	34	142

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY)

MEAN	6.79	3.61	3.51	3.47	5.50	7.51	4.19	9.21	16.7	19.0	15.7	12.6
MAX	137	7.71	7.44	7.96	31.4	209	13.3	112	85.8	100	156	302
(WY)	1947	1998	1974	1974	1960	1960	1977	1957	1947	1956	1950	1951
MIN	0.07	0.08	0.08	0.05	0.05	0.04	0.20	0.19	0.23	0.05	0.05	0.04
(WY)	1956	1956	1955	1955	1956	1956	1948	1956	1954	1955	1946	1953

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1946 - 2004	
ANNUAL TOTAL	553.41		589.29			
ANNUAL MEAN	1.52		1.61		9.02	
HIGHEST ANNUAL MEAN					35.0	1951
LOWEST ANNUAL MEAN					1.12	1953
HIGHEST DAILY MEAN	16	Apr 16	72	Jul 10	3950	Aug 7 1950
LOWEST DAILY MEAN	0.13	Aug 7	0.10	Sep 13	0.00	Apr 25 1946
ANNUAL SEVEN-DAY MINIMUM	0.21	Sep 2	0.17	Aug 29	0.00	Jun 12 1946
MAXIMUM PEAK FLOW			155	Jul 10	4740	Aug 7 1950
MAXIMUM PEAK STAGE			7.45	Jul 10	25.43	Aug 7 1950
ANNUAL RUNOFF (AC-FT)	1100		1170		6530	
10 PERCENT EXCEEDS	2.8		1.5		11	
50 PERCENT EXCEEDS	1.3		1.1		4.6	
90 PERCENT EXCEEDS	0.25		0.47		0.30	

e Estimated

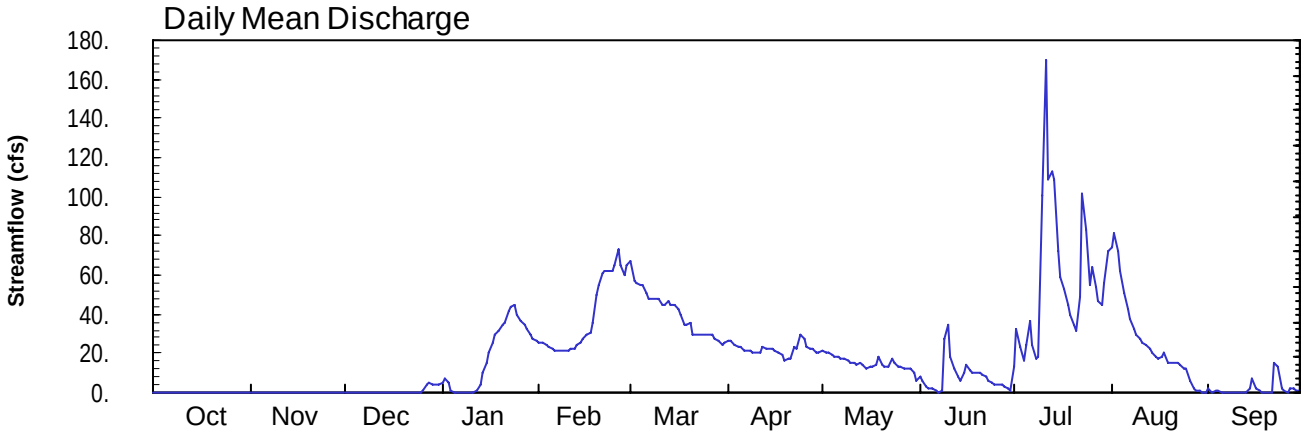
2004 Water Year

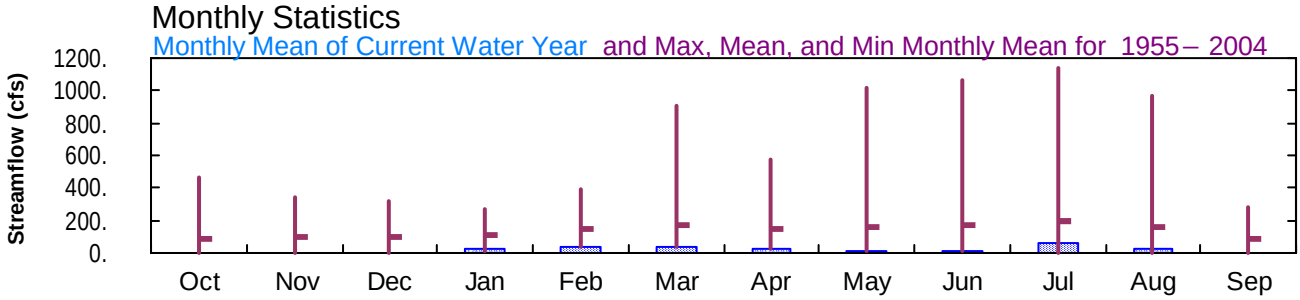
KANSAS RIVER BASIN

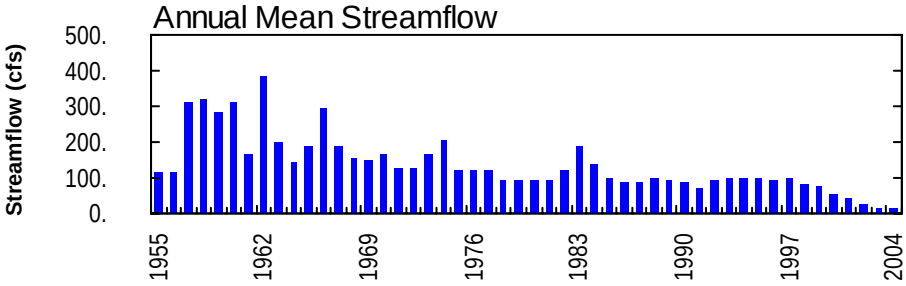
06837000 REPUBLICAN RIVER AT MCCOOK NEBR

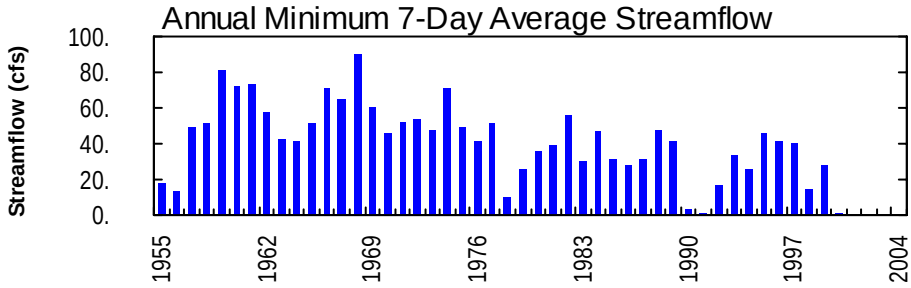
Latitude: 40° 11 ' 15" Longitude: 100° 37 ' 06" Hydrologic Unit Code: 10250004

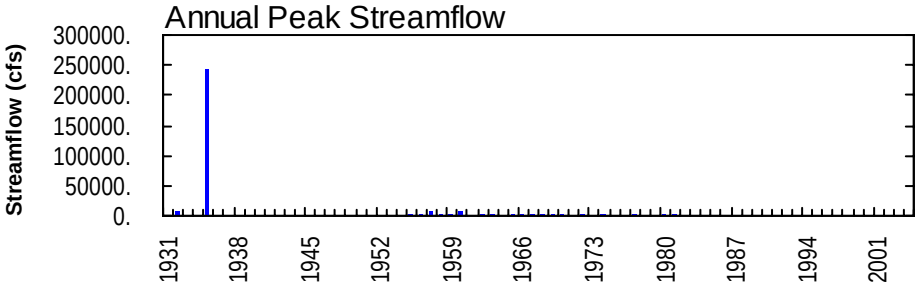
Red willow County Datum: 2456.37 feet Drainage Area: 12240 mi²











06837000 REPUBLICAN RIVER AT MCCOOK, NE

LOCATION—Lat 40°11'15", long 100°37'05", in SW 1/4 NE 1/4 sec.32, T.3 N., R.29 W., Red Willow County, Hydrologic Unit 10250004, on left bank at downstream side of bridge on U.S. Highway 83 at south edge of McCook, 2.5 mi downstream from Driftwood Creek, 10.5 mi upstream from Red Willow Creek, and at mile 348.

DRAINAGE AREA—12,240 mi^2, of which about 6,220 mi^2 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.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 2,456.37 ft above sea level. October 1930 to June 1932, non-recording gage on former highway bridge 300 ft upstream at different datum, and October 1954 to Mar. 13, 1959 on highway bridge 25 ft upstream at present datum. Mar. 13, 1959 to Mar. 29, 1988 at present site and datum. Mar. 29, 1988 to Oct. 31, 1989 200 ft downstream at present datum. Data collection platform at station.

REMARKS—Records fair, except for estimated daily discharges, and records for July through September, which are poor. Natural flow affected by irrigation development above station and by storage in Bonny Reservoir, Enders Reservoir (station 06832000), and Swanson Lake (station 06829000).

06837000 REPUBLICAN RIVER AT MCCOOK, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.08	0.03	0.05	e5.5	e25	67	26	21	7.8	13	74	2.5
2	0.03	0.10	0.09	e7.0	e25	57	26	20	6.6	33	81	0.10
3	0.00	0.10	0.10	e5.0	e24	56	24	20	2.9	23	72	0.54
4	0.00	0.02	0.11	e1.0	e23	55	23	19	2.3	16	62	0.72
5	0.00	0.02	0.10	e0.10	e22	55	23	18	2.4	24	51	0.09
6	0.02	0.01	0.11	e0.00	e21	51	21	18	0.82	37	43	0.00
7	0.03	0.00	0.13	e0.00	e21	48	21	17	0.26	24	38	0.00
8	0.00	0.00	0.14	e0.00	e21	48	21	17	0.61	17	33	0.00
9	0.03	0.00	0.17	0.00	e21	48	20	16	27	18	29	0.00
10	0.07	0.01	0.15	0.00	e21	48	20	15	35	101	27	0.00
11	0.01	0.01	0.17	0.02	e22	45	20	15	18	170	25	0.00
12	0.01	0.02	0.16	1.1	e22	45	23	14	12	109	24	0.00
13	0.06	0.01	0.16	4.3	e24	47	22	15	7.9	113	22	0.46
14	0.05	0.02	0.17	9.9	e25	45	22	14	6.3	109	20	2.5
15	0.04	0.02	0.19	15	e27	45	22	12	10	72	18	6.8
16	0.05	0.02	0.21	20	30	43	21	13	14	59	17	2.5
17	0.02	0.02	0.23	25	31	40	20	13	11	53	18	0.56
18	0.01	0.02	0.25	30	36	35	19	14	10	45	20	0.03
19	0.02	0.03	0.30	32	50	35	16	18	9.8	40	15	0.03
20	0.10	0.06	0.30	35	55	36	17	14	10	35	15	0.05
21	0.13	0.07	0.36	36	61	29	17	13	9.3	32	15	0.02
22	0.03	0.03	0.35	42	62	29	23	13	7.9	49	15	15
23	0.05	0.03	0.45	44	62	29	22	17	6.3	102	14	13
24	0.05	0.03	0.45	45	62	29	30	15	5.2	83	12	1.8
25	0.03	0.03	0.48	40	65	29	27	13	4.5	55	12	0.51
26	0.03	0.02	1.1	e37	73	29	23	13	4.5	64	5.9	0.39
27	0.06	0.02	e4.0	e35	65	29	22	12	4.5	54	1.9	2.4
28	0.04	0.03	e5.0	e33	60	27	22	12	3.2	47	1.2	2.2
29	0.04	0.04	e4.5	e30	65	26	20	12	2.0	45	0.54	1.1
30	0.03	0.05	e4.0	e27	---	24	20	10	1.1	56	0.17	0.87
31	0.03	---	e4.5	e26	---	25	---	6.5	---	72	0.21	---
TOTAL	1.15	0.87	28.48	585.92	1121	1254	653	459.5	243.19	1770	781.92	54.17
MEAN	0.04	0.03	0.92	18.9	38.7	40.5	21.8	14.8	8.11	57.1	25.2	1.81
MAX	0.13	0.10	5.0	45	73	67	30	21	35	170	81	15
MIN	0.00	0.00	0.05	0.00	21	24	16	6.5	0.26	13	0.17	0.00
AC-FT	2.3	1.7	56	1160	2220	2490	1300	911	482	3510	1550	107

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2004, BY WATER YEAR (WY)

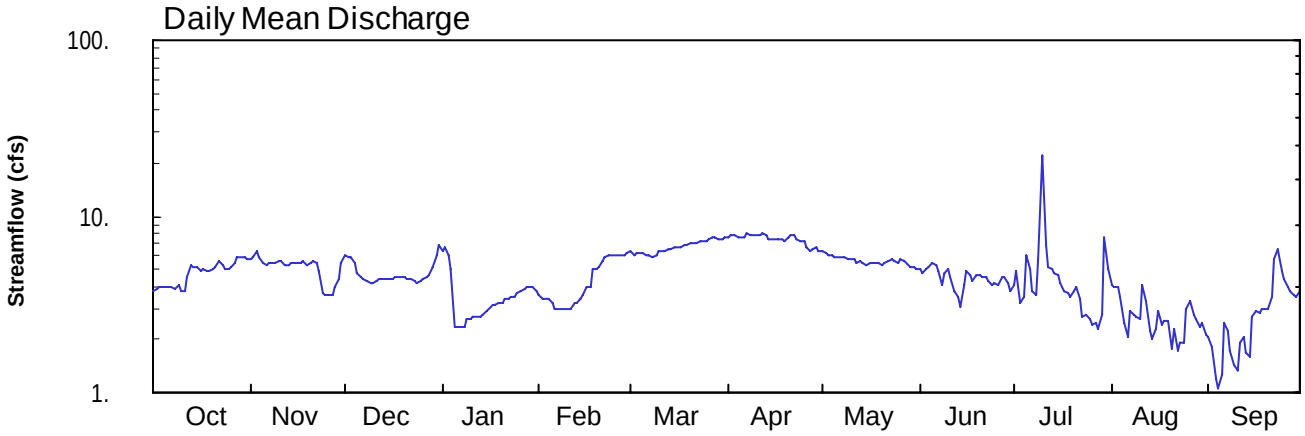
MEAN	91.3	104	101	105	141	168	151	162	175	198	160	90.8
MAX	466	341	321	269	398	901	577	1022	1070	1142	970	286
(WY)	1966	1966	1959	1959	1958	1960	1958	1957	1962	1962	1962	1962
MIN	0.04	0.03	0.28	9.17	36.6	33.8	21.8	14.8	6.41	1.77	1.22	0.17
(WY)	2004	2004	2003	2003	2003	2003	2004	2004	2002	2002	2003	2003

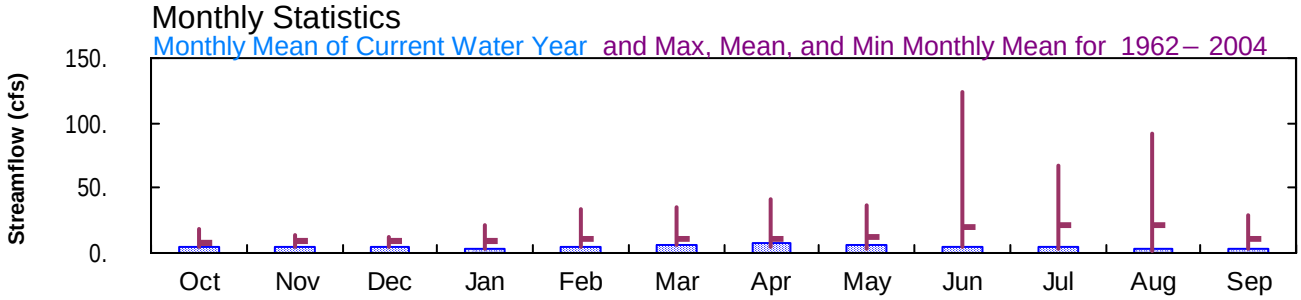
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1955 - 2004	
ANNUAL TOTAL	5472.66		6953.20			
ANNUAL MEAN	15.0		19.0		137	
HIGHEST ANNUAL MEAN					383	1962
LOWEST ANNUAL MEAN					15.0	2003
HIGHEST DAILY MEAN	150	Jun 12	170	Jul 11	5020	Mar 21 1960
LOWEST DAILY MEAN	0.00	Aug 23	0.00	Oct 3	0.00	Sep 24 2000
ANNUAL SEVEN-DAY MINIMUM	0.01	Nov 5	0.00	Sep 6	0.00	Aug 29 2001
MAXIMUM PEAK FLOW			271	Jul 10	5890	Mar 21 1960
MAXIMUM PEAK STAGE			5.56	Jul 10	9.14	Mar 21 1960
ANNUAL RUNOFF (AC-FT)	10860		13790		99470	
10 PERCENT EXCEEDS	37		50		245	
50 PERCENT EXCEEDS	4.1		14		101	
90 PERCENT EXCEEDS	0.02		0.02		42	

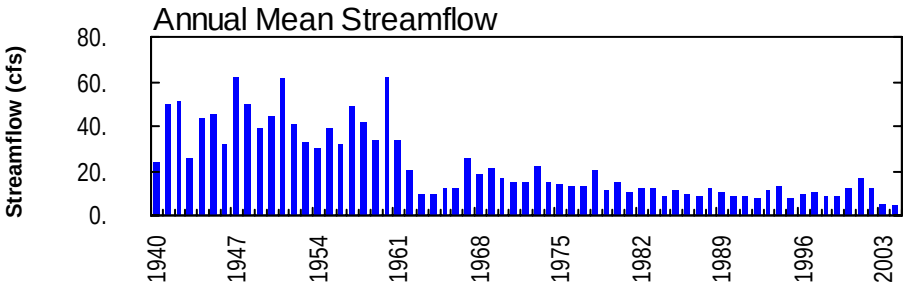
e Estimated

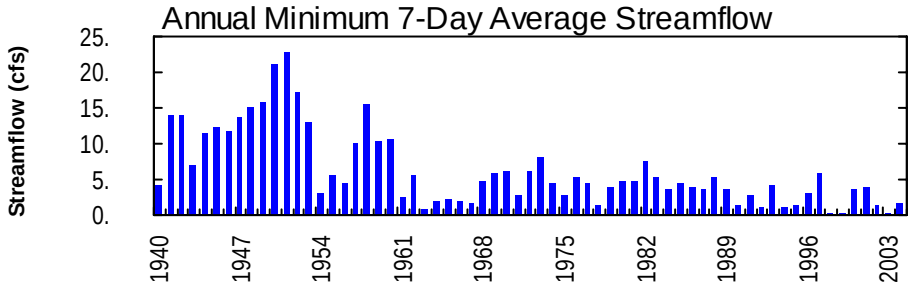
06838000 RED WILLOW CREEK NEAR RED WILLOW, NEBR.

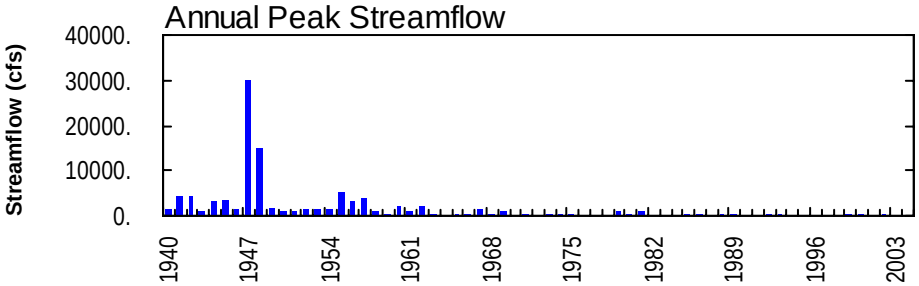
Latitude: 40° 14 ' 05" Longitude: 100° 30 ' 02" Hydrologic Unit Code: 10250007
Red willow County Datum: 2398.64 feet Drainage Area: 820. mi^2











06838000 RED WILLOW CREEK NEAR RED WILLOW, NE

LOCATION—Lat 40°14'10", long 100°30'00", in NE 1/4 NE 1/4 sec.17, T.3 N., R.28 W., Red Willow County, Hydrologic Unit 10250007, on left bank near downstream side of bridge on U.S. Highways 6 and 34, 0.8 mi north of Red Willow and 2.1 mi upstream from mouth.

DRAINAGE AREA—820 mi^2, of which about 405 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—September 1939 to current year.

REVISED RECORDS—WSP 1510: 1945(M). WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 2,398.64 ft above sea level. Prior to May 26, 1945, non-recording gage at bridge 1.2 mi upstream at datum 11.16 ft higher; May 26, 1945 to Aug. 2, 1974 water-stage recorder at left downstream side of bridge, present datum; Aug. 3, 1974 to June 27, 1980 on right bank at downstream side of bridge, present datum; and June 28, 1980 to May 19, 1992 at left downstream side of bridge, present datum. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor. Natural flow affected by irrigation development above station, since Sept. 5, 1961, by storage in Hugh Butler Lake (station 06837390), and since June 1963 by Red Willow Canal which diverts 4.5 mi above station for irrigation of about 4,150 acres.

06838000 RED WILLOW CREEK NEAR RED WILLOW, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	5.7	6.1	6.4	e3.6	e6.4	7.6	6.3	5.0	4.1	4.1	2.1
2	3.9	5.8	5.9	6.7	e3.4	e6.0	7.8	6.2	4.8	4.9	4.0	1.8
3	3.9	6.4	5.9	e6.0	e3.4	6.1	7.8	6.0	5.0	3.3	4.0	1.2
4	4.0	5.9	e5.4	e5.0	e3.4	6.2	7.7	6.0	5.2	3.4	3.5	1.1
5	4.0	5.4	e4.8	e2.4	e3.2	6.2	7.6	5.9	5.5	6.0	2.5	1.3
6	4.0	5.3	4.5	e2.4	e3.0	6.1	7.7	5.9	5.2	5.0	2.1	2.5
7	4.0	5.4	e4.4	e2.4	e3.0	6.0	8.0	5.8	4.9	3.7	2.9	2.3
8	3.9	5.4	e4.3	e2.4	e3.0	5.9	7.8	5.9	4.1	3.6	2.8	1.7
9	4.1	5.5	e4.2	e2.6	e3.0	6.1	7.8	5.8	4.7	5.8	2.7	1.4
10	3.8	5.5	e4.2	e2.6	e3.0	6.4	7.9	5.8	5.0	22	2.6	1.3
11	3.8	5.6	e4.3	e2.7	e3.0	6.3	7.7	5.7	4.5	6.8	4.1	1.9
12	4.6	5.3	e4.4	e2.7	e3.2	6.4	7.9	5.5	3.8	5.2	3.3	2.1
13	5.3	5.2	e4.4	e2.7	e3.2	6.5	7.8	5.5	3.4	5.0	2.3	1.7
14	5.2	5.4	e4.4	e2.8	e3.4	6.6	7.4	5.5	3.1	4.8	2.0	1.6
15	5.1	5.5	e4.4	e2.9	e3.6	6.6	7.5	5.3	4.1	4.7	2.3	2.7
16	4.9	5.5	e4.4	e3.0	e4.0	6.7	7.4	5.4	4.9	4.2	2.9	2.9
17	5.0	5.4	e4.5	e3.1	e4.0	6.8	7.5	5.5	4.6	3.7	2.4	2.8
18	4.9	5.5	e4.5	e3.1	e5.0	6.8	7.5	5.4	4.3	3.7	2.6	3.0
19	4.9	5.3	e4.5	e3.2	e5.0	6.8	7.2	5.4	4.7	3.5	2.5	3.0
20	5.0	5.5	e4.5	e3.2	e5.2	7.0	7.7	5.3	4.6	3.7	1.8	3.0
21	5.2	5.5	e4.4	e3.4	e5.6	7.0	7.8	5.4	4.6	4.0	2.3	3.5
22	5.5	5.5	e4.4	e3.4	e5.8	7.1	7.8	5.5	4.6	3.4	1.7	5.6
23	5.2	4.8	e4.3	e3.5	e6.0	7.3	7.5	5.7	4.3	2.7	1.9	6.5
24	5.0	3.7	4.2	e3.5	e6.0	7.2	7.1	5.5	4.1	2.7	1.9	e4.9
25	5.0	e3.6	e4.3	e3.7	e6.0	7.3	7.2	5.5	4.1	2.7	3.0	e4.4
26	5.1	e3.6	e4.4	e3.8	e6.0	7.4	6.7	5.7	4.1	2.4	3.3	e4.0
27	5.5	e3.6	e4.5	e3.9	e6.0	7.5	6.3	5.6	4.5	2.5	2.7	e3.8
28	5.8	e4.0	4.6	e4.0	e6.0	7.5	6.4	5.5	4.5	2.3	2.6	3.6
29	5.8	e4.4	e5.2	e4.0	e6.2	7.4	6.6	5.2	4.2	2.7	2.4	3.5
30	5.8	e5.4	e6.0	e4.0	---	7.4	6.3	5.1	3.8	7.5	2.5	3.8
31	5.7	---	e6.8	e3.8	---	7.5	---	5.1	---	5.0	2.2	---
TOTAL	147.7	154.6	147.1	109.3	125.2	208.5	223.0	173.9	134.2	145.0	83.9	85.0
MEAN	4.76	5.15	4.75	3.53	4.32	6.73	7.43	5.61	4.47	4.68	2.71	2.83
MAX	5.8	6.4	6.8	6.7	6.2	7.5	8.0	6.3	5.5	22	4.1	6.5
MIN	3.8	3.6	4.2	2.4	3.0	5.9	6.3	5.1	3.1	2.3	1.7	1.1
AC-FT	293	307	292	217	248	414	442	345	266	288	166	169

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

MEAN	8.36	8.44	8.55	9.14	10.6	11.2	11.2	11.7	20.5	21.8	20.9	10.1
MAX	18.8	13.6	12.1	21.1	32.9	35.5	41.5	36.6	124	67.2	92.4	29.0
(WY)	1970	1997	1966	1962	1968	1994	1970	1973	1967	2002	1978	1978
MIN	3.84	4.98	4.75	3.53	4.32	6.11	4.98	2.87	4.47	3.13	1.66	2.78
(WY)	1978	1978	2003	2004	2004	2002	1978	1978	2004	2003	2003	2003

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1962 – 2004a	
ANNUAL TOTAL	1943.97		1737.4			
ANNUAL MEAN	5.33		4.75		12.7	
HIGHEST ANNUAL MEAN					25.5	1967
LOWEST ANNUAL MEAN					4.75	2004
HIGHEST DAILY MEAN	32	Jun 12	22	Jul 10	668	Jul 18 1962
LOWEST DAILY MEAN	0.11	Aug 22	1.1	Sep 4	0.00	Sep 2 1995
ANNUAL SEVEN-DAY MINIMUM	0.35	Aug 17	1.6	Sep 3	0.29	Dec 31 1998
MAXIMUM PEAK FLOW			*44	Jul 10	30000	Jun 22 1947
MAXIMUM PEAK STAGE			**8.66	Jan 4	18.36	Jun 22 1947
ANNUAL RUNOFF (AC-FT)	3860		3450		9220	
10 PERCENT EXCEEDS	7.6		7.1		20	
50 PERCENT EXCEEDS	5.4		4.7		9.0	
90 PERCENT EXCEEDS	1.6		2.6		5.1	

e Estimated
a Since beginning of storage in Hugh Butler Lake.
* Stage 5.50 ft
** Backwater from ice

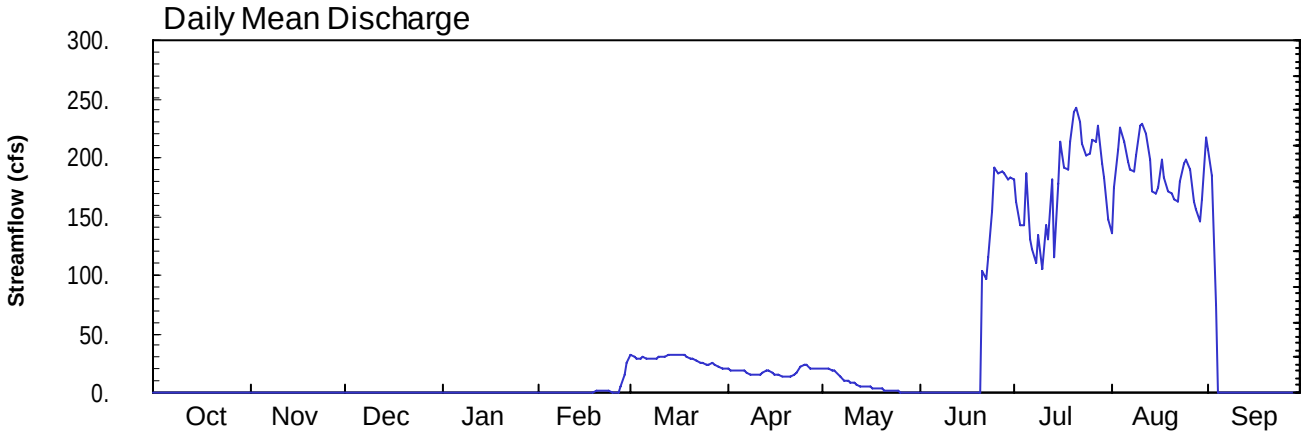
2004 Water Year

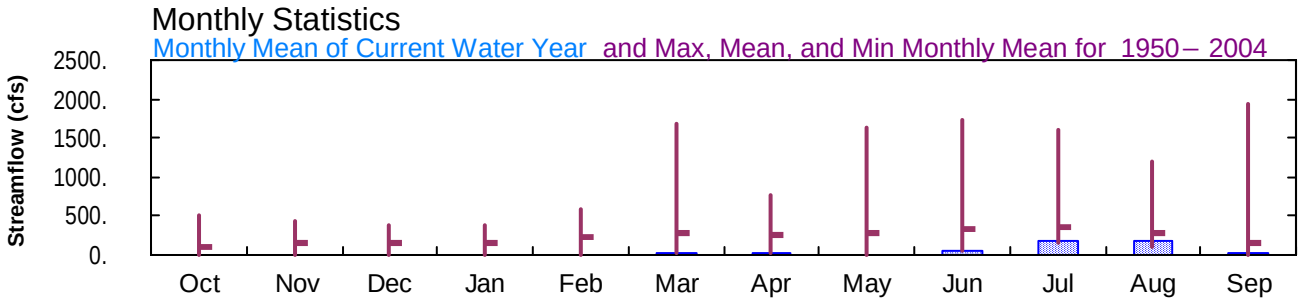
KANSAS RIVER BASIN

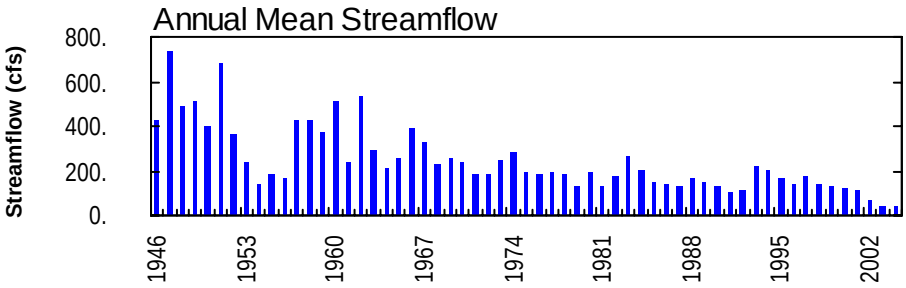
06843500 REPUBLICAN RIVER AT CAMBRIDGE, NEBR.

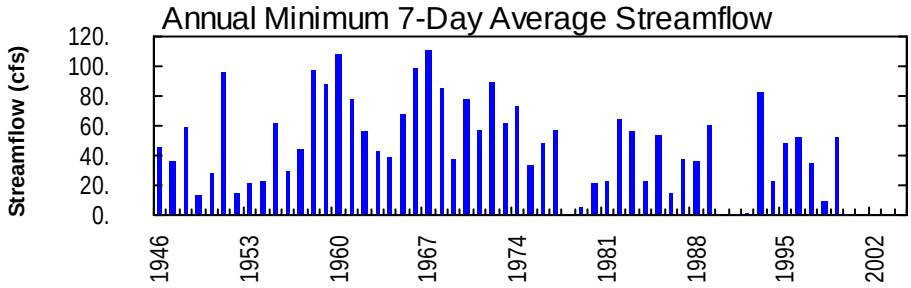
Latitude: 40° 17 ' 03" Longitude: 100° 08 ' 37" Hydrologic Unit Code: 10250004

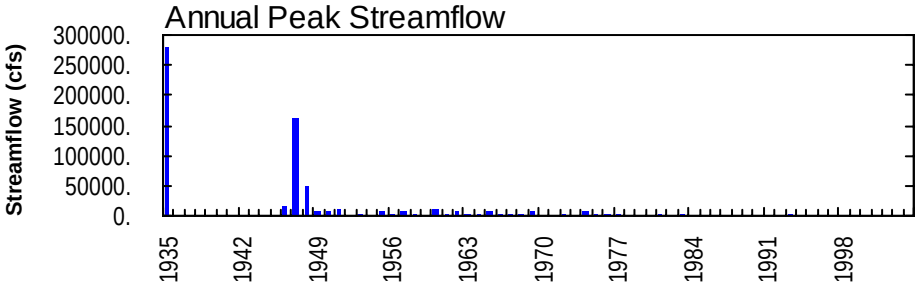
Furnas County Datum: 2239.07 feet Drainage Area: 14460 mi²











NO PHOTOS AVAILABLE FOR THIS SITE

06843500 REPUBLICAN RIVER AT CAMBRIDGE, NE

LOCATION—Lat 40°17'05", long 100°08'35", in NW 1/4 SE 1/4 sec. 28, T.4 N., R.25 W., Furnas County, Hydrologic Unit 10250004, on left bank 400 ft south of U.S. Highways 6 and 34, 0.5 mi downstream from Medicine Creek, 1 mi east of Cambridge, 1.3 mi upstream from Cambridge diversion dam, and at mile 315.

DRAINAGE AREA—14,460 mi^2, of which about 7,780 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—September 1945 to current year.

REVISED RECORDS—WDR NE-84-1: 1983(M). WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 2,239.07 ft above sea level. Prior to July 13, 1948, non-recording gage at site 150 ft upstream at same datum and July 13, 1948 to Sept. 25, 1950 at present site and datum.

REMARKS—Records good. Natural flow affected by irrigation development above station and since 1949 by regulation from upstream reservoirs.

EXTREMES FOR PERIOD OF RECORD—Maximum discharge, 160,000 ft^3/s June 22, 1947, gage height 16.7 ft, from flood marks.

EXTREMES OUTSIDE PERIOD OF RECORD—Maximum stage since at least 1826, 17.6 ft May 31 to June 1, 1935, information from local resident, discharge, about 280,000 ft^3/s.

COOPERATION—Records provided by Nebraska Department of Natural Resources and reviewed by the U.S. Geological Survey.

06843500 REPUBLICAN RIVER AT CAMBRIDGE, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.02	e0.04	e0.11	e0.06	e0.08	32	20	20	e0.04	181	136	207
2	e0.02	e0.04	e0.11	e0.06	e0.08	30	19	20	e0.05	162	174	185
3	e0.01	e0.06	e0.11	e0.06	e0.09	28	18	20	e0.07	142	207	74
4	e0.01	e0.07	e0.11	e0.06	e0.09	29	19	19	e0.06	143	225	0.70
5	e0.01	e0.06	e0.12	e0.06	e0.10	30	18	18	e0.04	186	214	0.59
6	e0.01	e0.06	e0.13	e0.05	e0.10	28	18	16	e0.01	131	197	e0.52
7	e0.01	e0.05	e0.11	e0.07	e0.11	28	17	13	e0.01	122	189	e0.48
8	e0.02	e0.05	e0.11	e0.09	e0.11	28	16	11	e0.00	111	188	e0.45
9	e0.02	e0.05	e0.11	e0.11	e0.12	29	16	9.9	e0.00	134	202	e0.38
10	e0.02	e0.04	e0.10	e0.12	e0.12	30	16	8.9	e0.02	105	227	e0.32
11	e0.02	e0.05	e0.09	e0.13	e0.13	30	16	7.8	e0.05	142	229	e0.33
12	e0.02	e0.05	e0.09	e0.13	e0.13	31	17	6.4	e0.01	130	220	e0.32
13	e0.02	e0.04	e0.08	e0.14	e0.13	32	19	5.6	e0.00	181	199	e0.30
14	e0.02	e0.04	e0.09	e0.14	e0.12	32	18	5.4	e0.00	115	172	e0.27
15	e0.03	e0.04	e0.09	e0.15	e0.12	32	17	5.2	e0.02	178	170	e0.27
16	e0.03	e0.04	e0.09	e0.14	e0.34	33	15	4.7	0.19	213	174	e0.27
17	e0.02	e0.04	e0.08	e0.14	e0.56	33	15	4.1	0.01	191	199	e0.25
18	e0.02	e0.04	e0.06	e0.15	e0.78	33	14	4.1	0.01	190	183	e0.21
19	e0.03	e0.05	e0.06	e0.14	e1.0	31	13	4.1	0.01	213	171	e0.22
20	e0.03	e0.05	e0.06	e0.13	1.3	29	14	3.3	0.01	239	170	e0.23
21	e0.03	e0.06	e0.06	e0.14	1.4	28	14	2.5	104	243	164	e0.19
22	e0.03	e0.06	e0.06	e0.15	1.1	27	15	1.8	96	230	163	e0.19
23	e0.03	e0.07	e0.06	e0.16	0.96	26	17	1.7	115	212	179	e0.18
24	e0.04	e0.05	e0.06	e0.18	0.84	25	22	1.6	155	201	195	e0.18
25	e0.04	e0.09	e0.06	e0.12	0.76	24	24	0.92	191	204	198	e0.18
26	e0.04	e0.08	e0.06	e0.10	0.72	23	23	0.59	187	215	189	e0.19
27	e0.04	e0.09	e0.09	e0.09	5.0	25	21	0.32	188	213	162	e0.19
28	e0.04	e0.09	e0.09	e0.08	16	24	21	0.15	187	227	156	e0.21
29	e0.04	e0.10	e0.09	e0.09	25	22	20	0.11	182	195	146	e0.21
30	e0.04	e0.10	e0.08	e0.08	---	21	20	0.10	183	183	164	e0.20
31	e0.04	---	e0.06	e0.07	---	20	---	0.05	---	148	217	---
TOTAL	0.80	1.75	2.68	3.39	57.39	873	532	216.34	1588.61	5480	5779	474.03
MEAN	0.03	0.06	0.09	0.11	1.98	28.2	17.7	6.98	53.0	177	186	15.8
MAX	0.04	0.10	0.13	0.18	25	33	24	20	191	243	229	207
MIN	0.01	0.04	0.06	0.05	0.08	20	13	0.05	0.00	105	136	0.18
AC-FT	1.6	3.5	5.3	6.7	114	1730	1060	429	3150	10870	11460	940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

MEAN	113	145	141	148	227	280	246	286	327	354	286	145
MAX	515	425	389	384	579	1684	756	1624	1743	1613	1202	1935
(WY)	1966	1966	1966	1959	1966	1960	1958	1957	1962	1962	1962	1951
MIN	0.03	0.06	0.09	0.11	1.98	28.2	17.7	6.98	53.0	160	98.9	0.12
(WY)	2004	2004	2004	2004	2004	2004	2004	2004	2004	1952	1952	2003

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 – 2004a	
ANNUAL TOTAL	16381.75		15008.99			
ANNUAL MEAN	44.9		41.0		225	
HIGHEST ANNUAL MEAN					686	1951
LOWEST ANNUAL MEAN					41.0	2004
HIGHEST DAILY MEAN	228	Aug 21	243	Jul 21	8610	Mar 22 1960
LOWEST DAILY MEAN	0.01	Oct 3	0.00	Jun 8	0.00	Oct 13 2002
ANNUAL SEVEN-DAY MINIMUM	0.01	Oct 1	0.01	Jun 8	0.00	Oct 13 2002
MAXIMUM PEAK FLOW			251	Jul 21	*11000	Sep 4 1951
MAXIMUM PEAK STAGE			3.79	Jul 21	**9.35	Mar 22 1960
ANNUAL RUNOFF (AC-FT)	32490		29770		163000	
10 PERCENT EXCEEDS	170		185		400	
50 PERCENT EXCEEDS	33		0.32		160	
90 PERCENT EXCEEDS	0.04		0.04		60	

e Estimated
a Since beginning of storage in Harry Strunk Lake (Medicine Creek)
* Stage 7.02 ft
** Discharge 9080 ft^3/s

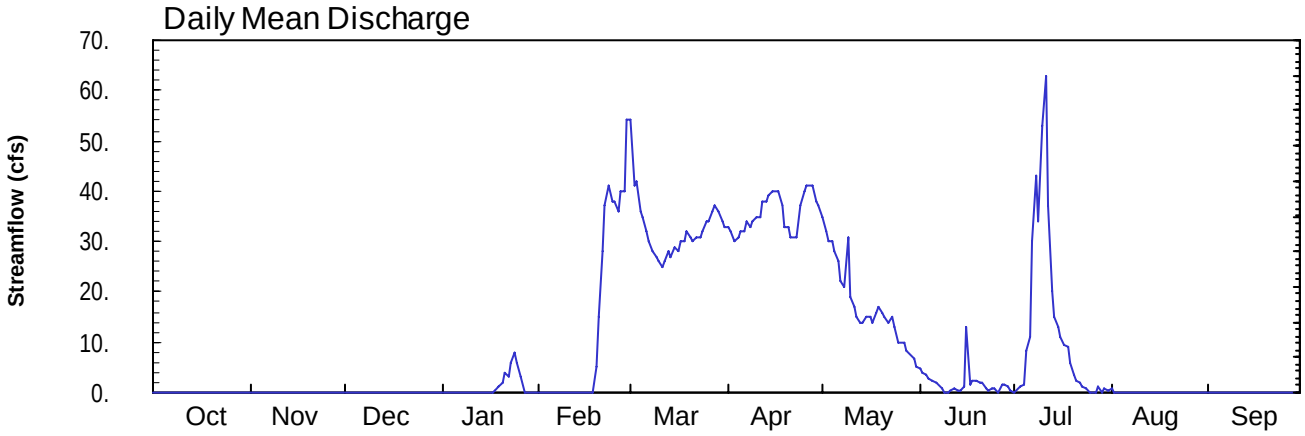
2004 Water Year

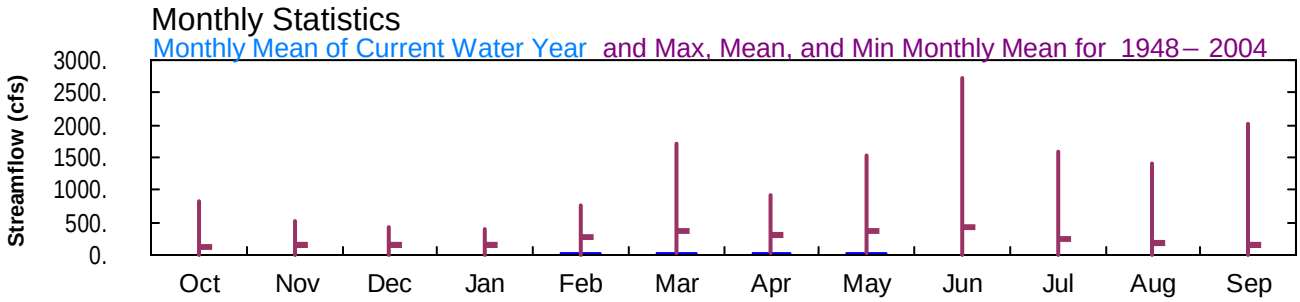
KANSAS RIVER BASIN

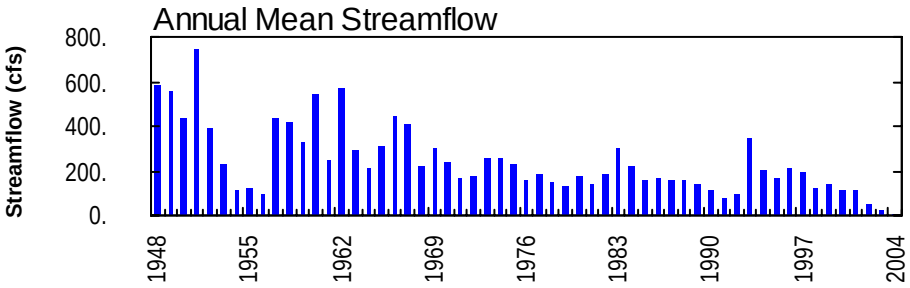
06844500 REPUBLICAN RIVER NEAR ORLEANS, NEBR.

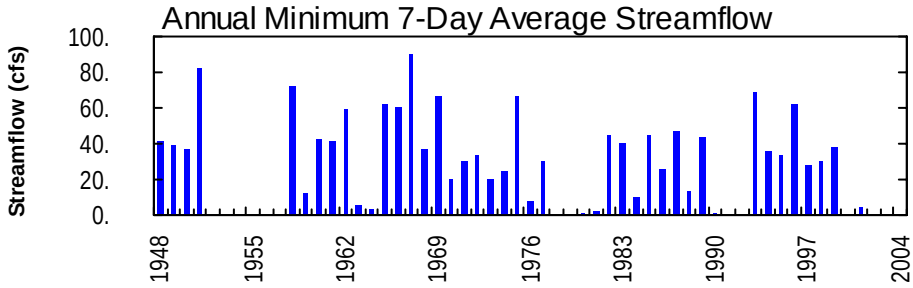
Latitude: 40°07'53" Longitude: 099°30'09" Hydrologic Unit Code: 10250009

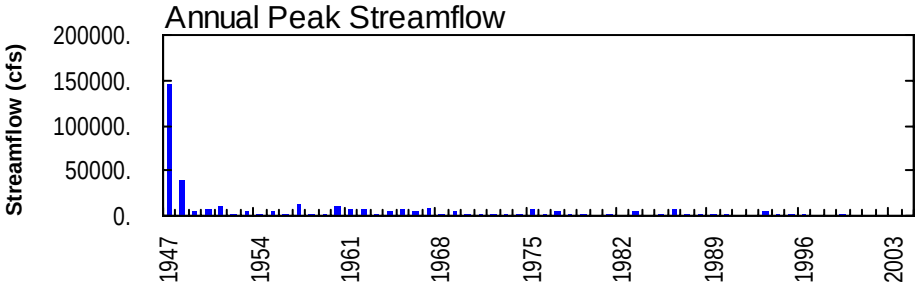
Harlan County Datum: 1972.57 feet Drainage Area: 15580 mi²











06844500 REPUBLICAN RIVER NEAR ORLEANS, NE

LOCATION—Lat 40°07'53", long 99°30'08", in NE 1/4 NE 1/4 sec.19, T.2 N., R.19 W., Harlan County, Hydrologic Unit 10250009, on right bank 18 ft downstream from bridge on State Highway 89, 200 ft downstream from Burlington Northern Inc. bridge, 2 mi west of Orleans, 2.8 mi upstream from Sappa Creek, 23 mi upstream from Harlan County Dam, and at mile 262.

DRAINAGE AREA—15,580 mi^2, approximately, of which about 8,880 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—October 1947 to current year.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,972.57 ft above sea level. Prior to June 2, 1948, non-recording gage at present site and datum. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor. Natural flow affected by irrigation development above station and regulation by upstream reservoirs.

06844500 REPUBLICAN RIVER NEAR ORLEANS, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	e0.00	54	33	35	4.7	0.15	0.60	0.00
2	0.00	0.00	0.00	0.00	e0.00	41	32	32	3.9	0.45	0.03	e0.00
3	0.00	0.00	0.00	0.00	e0.00	42	30	30	3.4	1.3	0.00	e0.00
4	0.00	0.00	0.00	0.00	e0.00	36	31	30	2.8	1.5	0.00	0.00
5	0.00	0.00	0.00	0.00	e0.00	35	32	28	2.5	8.3	0.16	0.00
6	0.00	0.00	0.00	e0.00	e0.00	32	32	26	2.1	11	0.00	0.00
7	0.00	0.00	0.00	e0.00	e0.00	30	34	22	1.5	30	0.03	0.00
8	0.00	0.00	0.00	e0.00	e0.00	28	33	21	0.63	43	0.00	0.00
9	0.00	0.00	0.00	0.00	e0.00	27	34	31	0.14	e34	0.00	e0.00
10	0.00	0.00	0.00	0.00	e0.00	26	35	19	0.04	53	0.00	e0.00
11	0.02	0.00	0.00	0.00	e0.00	25	35	17	0.26	e63	0.19	e0.00
12	0.00	0.00	0.00	0.00	e0.00	26	38	15	0.72	37	0.05	e0.00
13	0.00	0.00	0.00	0.00	e0.00	28	38	14	0.22	20	0.00	e0.00
14	0.00	0.00	0.00	0.00	e0.00	27	39	14	0.24	15	0.00	e0.00
15	0.00	0.00	0.00	0.00	e0.00	29	40	15	1.0	13	0.00	0.00
16	0.00	0.00	0.00	0.00	e0.00	28	40	15	13	11	0.00	0.00
17	0.00	0.00	0.00	e0.00	e0.00	30	40	14	1.7	9.5	0.00	e0.00
18	0.00	0.00	0.00	e0.50	e0.00	30	37	16	2.2	9.2	0.11	e0.00
19	0.00	0.00	0.00	e1.0	e5.0	32	33	17	2.4	5.8	0.08	e0.00
20	0.00	0.00	0.00	e2.0	15	31	33	16	2.0	3.6	0.00	e0.00
21	0.00	0.00	0.00	e4.0	28	30	31	15	2.0	2.2	0.11	e0.00
22	0.00	0.00	0.00	e3.3	37	31	31	14	0.94	1.9	0.00	0.00
23	0.00	0.00	0.00	e6.0	41	31	31	15	0.31	1.1	0.00	0.00
24	0.00	0.00	0.00	e8.0	38	32	37	13	0.78	0.83	0.00	0.00
25	0.00	0.00	0.00	e6.0	38	34	40	10	e0.62	0.07	0.00	0.00
26	0.00	0.00	0.00	e3.0	36	34	41	10	0.18	0.00	0.00	0.00
27	0.00	0.00	0.00	e0.00	40	36	41	9.8	1.5	0.00	0.00	0.00
28	0.00	0.00	0.00	e0.00	40	37	41	8.4	1.7	1.3	0.00	0.00
29	0.00	0.00	0.00	e0.00	54	36	38	7.7	1.1	0.03	0.00	0.00
30	0.00	0.00	0.00	e0.00	---	34	37	6.7	0.47	0.86	0.00	0.00
31	0.00	---	0.00	e0.00	---	33	---	5.2	---	0.50	0.00	---
TOTAL	0.02	0.00	0.00	33.80	372.00	1005	1067	541.8	55.05	378.59	1.36	0.00
MEAN	0.00	0.00	0.00	1.09	12.8	32.4	35.6	17.5	1.83	12.2	0.04	0.00
MAX	0.02	0.00	0.00	8.0	54	54	41	35	13	63	0.60	0.00
MIN	0.00	0.00	0.00	0.00	0.00	25	30	5.2	0.04	0.00	0.00	0.00
AC-FT	0.04	0.00	0.00	67	738	1990	2120	1070	109	751	2.7	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2004, BY WATER YEAR (WY)

MEAN	122	161	160	161	276	359	312	369	441	244	169	139
MAX	840	519	438	392	772	1720	915	1528	2732	1602	1396	2026
(WY)	1966	1966	1966	1953	1949	1960	1949	1951	1948	1962	1962	1951
MIN	0.00	0.00	0.00	1.09	12.8	32.4	35.6	17.5	1.84	1.19	0.00	0.00
(WY)	1992	2003	2004	2004	2004	2004	2004	2004	2004	2002	2002	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1948 - 2004	
ANNUAL TOTAL	11344.32		3454.62			
ANNUAL MEAN	31.1		9.44		242	
HIGHEST ANNUAL MEAN					746	1951
LOWEST ANNUAL MEAN					9.44	2004
HIGHEST DAILY MEAN	355	May 21	63	Jul 11	18400	Jun 22 1948
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Sep 15 1952
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 22	0.00	Oct 1	0.00	Sep 15 1952
MAXIMUM PEAK FLOW			78	Jul 11	*40600	Jun 22 1948
MAXIMUM PEAK STAGE			1.94	Jul 11	**12.95	Mar 8 1993
ANNUAL RUNOFF (AC-FT)	22500		6850		175500	
10 PERCENT EXCEEDS	88		35		460	
50 PERCENT EXCEEDS	8.4		0.00		152	
90 PERCENT EXCEEDS	0.00		0.00		32	

e Estimated
* Stage 11.25 ft
** Backwater from ice

06846500 BEAVER CREEK AT CEDAR BLUFFS, KS

LOCATION—Lat 39°59'06", long 100°33'35", in NW ¼ NE ¼ sec.10, T.1 S., R.29 W., Decatur County, Hydrologic Unit 10250014, on right bank at downstream side of bridge on U.S. Highway 83, 0.2 mi north of Cedar Bluffs, 1.0 mi south of Kansas-Nebraska State line, and at mile 107.4.

DRAINAGE AREA—1,618 mi^2, of which 294 mi^2 is probably noncontributing.

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

REVISED RECORDS—WSP 1510: 1947, 1950-51.

GAGE—Water-stage recorder. Datum of gage is 2,520.33 ft above NGVD of 1929. Prior to Aug. 19, 1971, at site 0.1 mi upstream at same datum. Aug. 19, 1971, to July 12, 1972, at site 0.8 mi downstream at datum 5.00 ft lower.

REMARKS—Records good except those for estimated daily discharges, which are poor. Satellite telemeter at station.

COOPERATION: Records provided by U.S. Geological Survey, Kansas Water Science Center.

EXTREMES OUTSIDE PERIOD OF RECORD—Flood in July 1944 reached a stage of 18.16 ft, from floodmark.

PEAK DISCHARGES FOR CURRENT YEAR—Peak discharges greater than base discharge of 300 ft^3/s and maximum (*):

	Time	Discharge (ft^3/s)	Gage height (ft)		Time	Discharge (ft^3/s)	Gage height (ft)
Sep 27	1945	*150	*7.55				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.06	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.01	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.02	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	e0.89	0.00	0.00
9	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	e0.04	0.00	0.00
10	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	e2.0	0.00	0.00
11	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	e3.0	0.00	0.00
12	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	e0.08	0.00	0.00
13	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e20
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e1.3
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.71
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0	0.00	20
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00	42

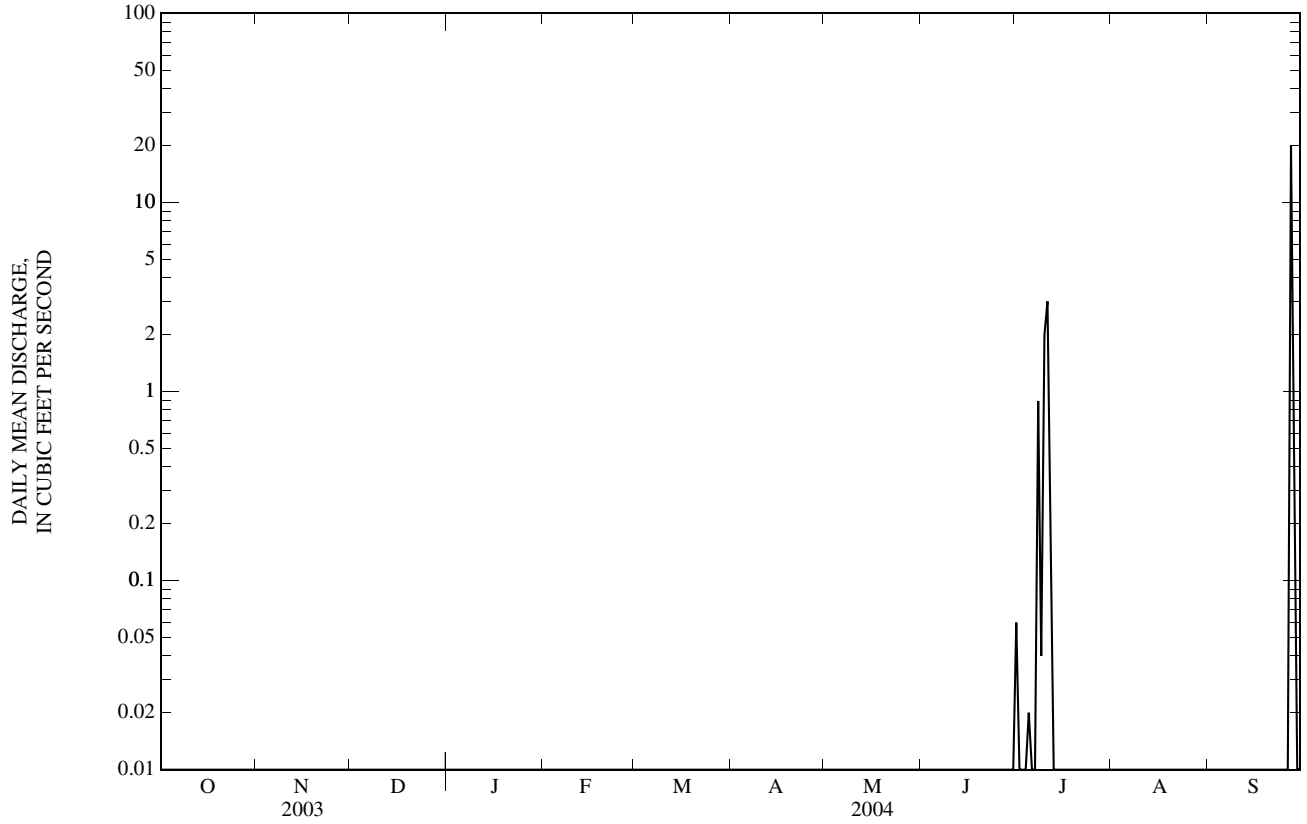
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY)

MEAN	8.22	2.71	2.33	2.02	3.57	10.9	6.71	21.8	36.0	27.6	14.5	14.9
MAX	231	39.6	30.4	28.4	28.1	369	61.7	432	278	391	146	421
(WY)	(1947)	(1966)	(1966)	(1966)	(1966)	(1960)	(1960)	(1957)	(1960)	(1951)	(1962)	(1951)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1954)	(1955)	(1955)	(1955)	(1956)	(1955)	(1955)	(1955)	(1979)	(1980)	(1955)	(1953)

06846500 BEAVER CREEK AT CEDAR BLUFFS, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1946 - 2004	
ANNUAL MEAN	0.06		0.07		12.7	
HIGHEST ANNUAL MEAN					106	1951
LOWEST ANNUAL MEAN					0.00	1991
HIGHEST DAILY MEAN	9.9	Apr 17	20	Sep 27	4,560	Jun 11, 1960
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Sep 3, 1946
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Sep 23, 1947
MAXIMUM PEAK FLOW			150	Sep 27	7,940	Jun 11, 1960
MAXIMUM PEAK STAGE			7.55	Sep 27	18.71	Jun 11, 1960
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	most years
ANNUAL RUNOFF (AC-FT)	45		54		9,170	
10 PERCENT EXCEEDS	0.00		0.00		21	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated



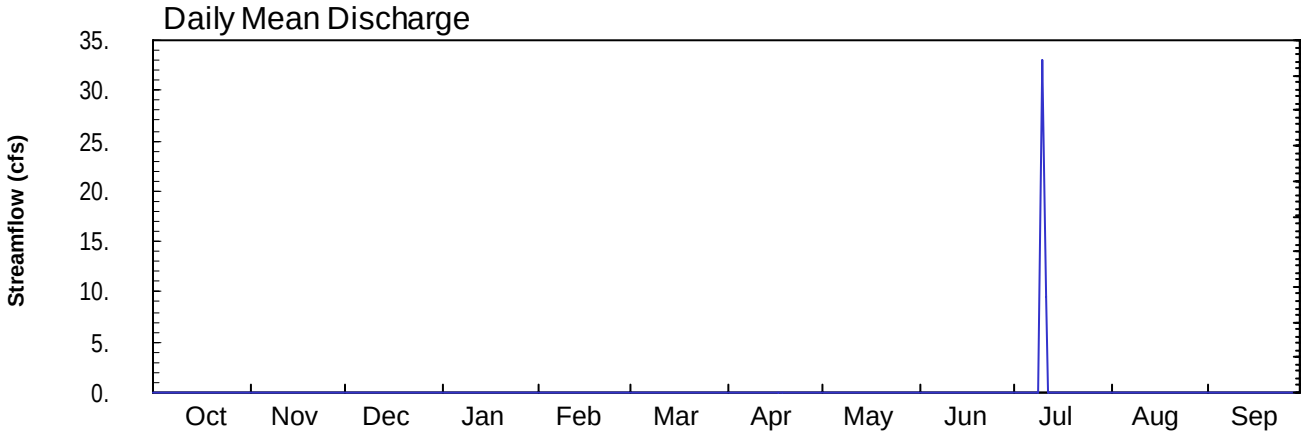
2004 Water Year

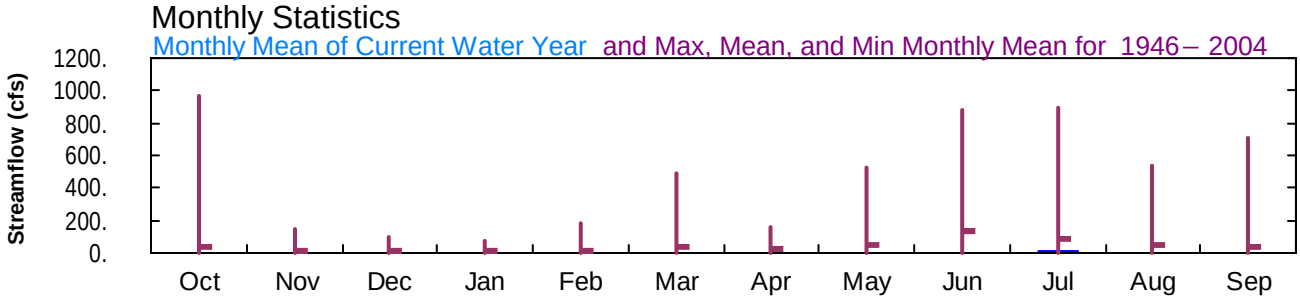
KANSAS RIVER BASIN

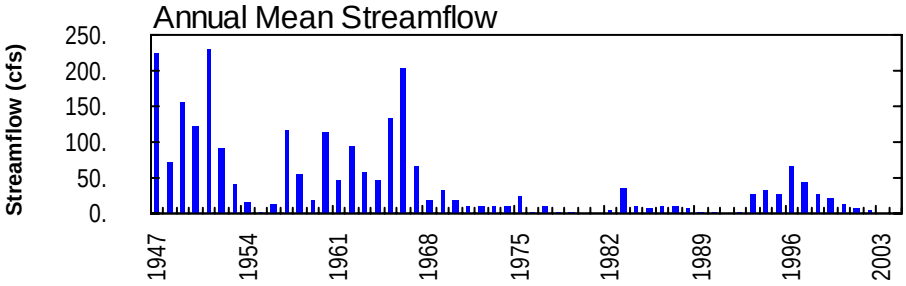
06847500 SAPPA CREEK NEAR STAMFORD, NEBR.

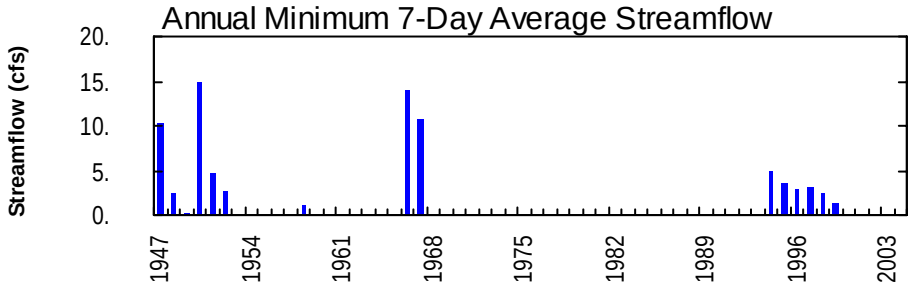
Latitude: 40° 07 ' 54" Longitude: 099° 33 ' 16" Hydrologic Unit Code: 10250011

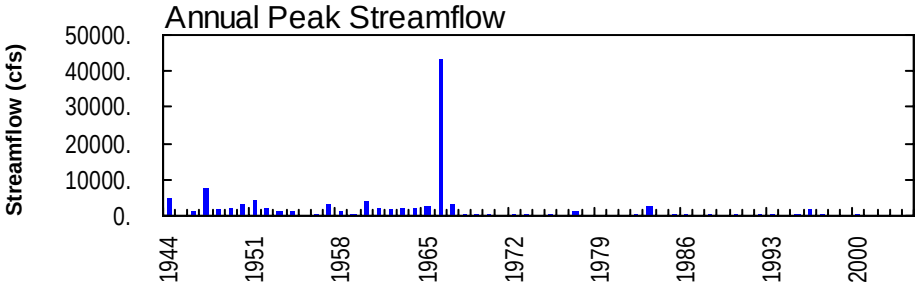
Harlan County Datum: 1981.31 feet Drainage Area: 3840. mi²











06847500 SAPPA CREEK NEAR STAMFORD, NE

LOCATION—Lat 40°07'53", long 99°33'15", in NW 1/4 NW 1/4 sec. 23, T.2 N., R.20 W., Harlan County, Hydrologic Unit 10250011, on left bank 40 ft south of Burlington Northern Inc. track, 500 ft downstream from bridge on county highway, 2 mi east of Stamford, and 6.5 mi upstream from mouth.

DRAINAGE AREA—3,840 mi^2, of which about 3,370 mi^2 contributes directly to surface runoff.

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

REVISED RECORDS—WSP 1919: 1960. WDR NE-71-1: Calendar year totals. WRD NE-82-1: 1979(M). WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,981.31 ft above sea level. Data collection platform at station.

REMARKS—Records good except for July 10-12, which are poor. Natural flow affected by irrigation development above station.

06847500 SAPPA CREEK NEAR STAMFORD, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.4	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.41	0.00	0.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.37	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY)

MEAN	37.3	12.3	10.2	8.88	18.3	33.2	23.7	53.7	138	83.9	53.9	38.2
MAX	965	145	96.2	71.5	182	486	164	522	878	891	544	708
(WY)	1947	1947	1966	1966	1966	1960	1960	1949	1947	1951	1950	1951
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1954	1955	1955	1955	1956	1956	1956	1956	1981	1977	1955	1959

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1946 - 2004	
ANNUAL TOTAL	90.49		42.41			
ANNUAL MEAN	0.25		0.12		42.8	
HIGHEST ANNUAL MEAN					229	1951
LOWEST ANNUAL MEAN					0.12	2004
HIGHEST DAILY MEAN	11	Jun 2	33	Jul 10	16600	Jun 24 1966
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Sep 12 1953
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Sep 12 1953
MAXIMUM PEAK FLOW			75	Jul 10	43400	Jun 24 1966
MAXIMUM PEAK STAGE			5.26	Jul 10	*22.13	Jun 24 1966
ANNUAL RUNOFF (AC-FT)	179		84		30980	
10 PERCENT EXCEEDS	0.80		0.00		76	
50 PERCENT EXCEEDS	0.00		0.00		5.7	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

* From floodmark

06848500 PRAIRIE DOG CREEK NEAR WOODRUFF, KS

LOCATION—Lat 39°59'07", long 99°28'26", in NW ¼ NW ¼ sec.9, T.1 S., R.19 W., Phillips County, Hydrologic Unit 10250015, on left bank at downstream side of bridge on U.S. Highway 383, 1.0 mi south of Kansas-Nebraska State line, 2.5 mi west of Woodruff, and at mile 26.5.

DRAINAGE AREA—1,007 mi^2.

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 above NGVD of 1929. See WSP 1919 for history of changes prior to Oct. 7, 1955.

REMARKS—Records fair. Flow regulated to some extent since 1964 by Keith Sebelius Lake (station 06847950), 48.4 mi upstream, and by irrigation development upstream from station. Satellite telemeter at station.

COOPERATION—Records provided by U.S. Geological Survey, Kansas Water Science Center.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

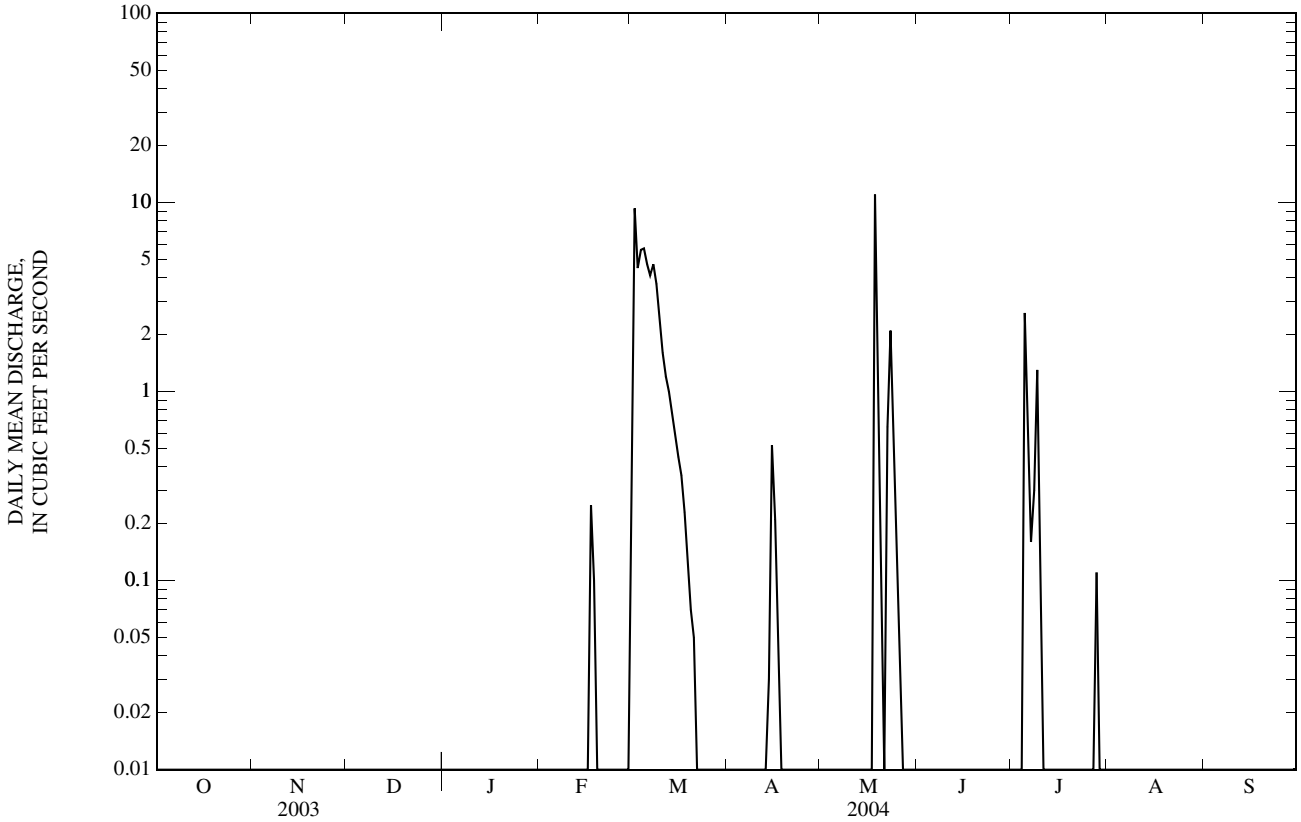
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	9.3	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	4.5	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	5.6	0.00	0.00	0.00	0.01	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	5.7	0.00	0.00	0.00	2.6	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	4.7	0.00	0.00	0.00	0.68	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	4.1	0.00	0.00	0.00	0.16	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	4.7	0.00	0.00	0.00	0.30	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	3.7	0.00	0.00	0.00	1.3	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	2.5	0.00	0.00	0.00	0.28	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	1.6	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	1.2	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	1.0	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.77	0.03	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.59	0.52	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.45	0.21	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.25	0.36	0.04	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.10	0.23	0.00	11	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.01	0.12	0.00	0.65	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.06	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.65	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.1	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
MEAN	0.00	0.00	0.00	0.00	0.01	1.68	0.03	0.50	0.00	0.18	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.25	9.3	0.52	11	0.00	2.6	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.7	103	1.6	31	0.00	11	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2004, BY WATER YEAR (WY)

MEAN	18.4	6.35	5.32	5.36	15.5	17.2	9.92	41.2	82.8	59.4	33.1	22.0
MAX	429	56.5	26.0	22.5	230	240	36.6	422	1,041	1,070	430	402
(WY)	(1947)	(1931)	(1947)	(1931)	(1932)	(1960)	(1952)	(1949)	(1947)	(1951)	(1950)	(1951)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1955)	(1956)	(1956)	(1956)	(1957)	(1957)	(1985)	(1992)	(1984)	(1984)	(1959)	(1960)

06848500 PRAIRIE DOG CREEK NEAR WOODRUFF, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1929 - 2004	
ANNUAL MEAN	1.50		0.20		25.7	
HIGHEST ANNUAL MEAN					208	1951
LOWEST ANNUAL MEAN					0.05	1991
HIGHEST DAILY MEAN	20	Jul 10	11	May 18	9,700	Jun 23, 1947
LOWEST DAILY MEAN	0.00	Aug 4	0.00	Oct 1	0.00	Oct 29, 1945
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 4	0.00	Oct 1	0.00	Oct 5, 1948
MAXIMUM PEAK FLOW			39	May 18	15,000	Jun 23, 1947
MAXIMUM PEAK STAGE			4.11	May 18	21.04	Jun 23, 1947
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	most years
ANNUAL RUNOFF (AC-FT)	1,090		147		18,600	
10 PERCENT EXCEEDS	3.6		0.08		27	
50 PERCENT EXCEEDS	1.2		0.00		4.0	
90 PERCENT EXCEEDS	0.00		0.00		0.00	



06849000 HARLAN COUNTY LAKE NEAR REPUBLICAN CITY, NE

LOCATION—Lat 40°04'10", long 99°12'30", in NE1/4 NW1/4 sec.11, T.1 N., R.17 W., Harlan County, Hydrologic Unit 10250009, at left end of spillway on upstream side of Harlan County Dam on Republican River, 2 mi southeast of Republican City and 8 mi southeast of Alma.

DRAINAGE AREA—20,750 mi^2, approximately, of which about 13,530 mi^2 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: Datum of gage is sea level. Data collection platform at station.

REMARKS—Reservoir is formed by earthfill dam with gravity-type concrete spillway section; storage began Nov. 14, 1952. Capacity, 313,700 acre-ft between elevations 1,885.0 ft, sill of outlet gates, and 1,946.0 ft, top of storage pool. Top of flood-control pool at elevation 1,973.5 ft, capacity, 814,100 acre-ft. Top of superstorage flood-control pool at elevation 1,975.5 ft, capacity, 861,900 acre-ft. Figures given herein represent total contents. Water used for irrigation in Bostwick irrigation project.

COOPERATION—Capacity table furnished by Corps of Engineers (revised Jan. 1, 2001).

EXTREMES FOR PERIOD OF RECORD—Maximum contents observed, 497,700 acre-ft Apr. 6, 1960, elevation, 1,955.67 ft; minimum since operation of reservoir began, 110,300 acre-ft Oct. 22 to Nov. 6, 1953, elevation, 1,922.00 ft.

EXTREMES FOR CURRENT YEAR.—Maximum contents, 121,000 acre-ft May 18, elevation 1,927.03 ft; minimum, 110,500 acre-ft Sept. 20, elevation 1,925.58 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

1,928	125,700
1,930	141,900
1,935	188,300
1,940	242,500
1,945	304,400

06849000 HARLAN COUNTY LAKE NEAR REPUBLICAN CITY, NE—Continued

Reservoir storage, acre feet
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120400	117900	116800	115900	116500	117700	118300	119300	119000	116900	117300	113900
2	120300	118200	116500	115800	116500	117700	118500	119000	118800	117100	117300	113700
3	120100	118200	116800	115900	116500	117800	118400	119000	118700	117200	117100	113500
4	120100	118000	116600	116300	116600	118300	118400	119100	118500	117200	116900	113200
5	120100	117900	116700	116200	116800	118300	118400	119100	118600	117000	116700	113400
6	120000	118000	116600	116100	116800	118300	118900	119000	118500	117900	116600	113000
7	119800	117900	116500	116100	116700	118200	118900	119100	118200	117700	116400	112800
8	119800	117800	116400	116100	116800	118200	118800	120400	118200	117700	116300	112600
9	119700	117700	116700	116100	116700	118200	118800	119500	118000	118400	116100	112500
10	119500	117900	116500	116100	116800	118300	118800	119600	118000	119000	116100	112000
11	120200	117700	116500	116100	116700	118100	118500	119800	117900	119000	115900	112000
12	119800	117700	116400	116100	116600	118200	119000	119500	117700	119000	115700	111800
13	120200	117600	116300	116100	116700	118200	119000	119700	117500	118700	115500	111700
14	119800	117700	116300	116000	116700	118000	118500	119300	117200	118700	115500	112100
15	119800	117700	116300	116000	116600	118200	119100	119500	117500	118700	115300	111800
16	119700	117400	116300	116100	116600	118200	119000	119500	117800	118600	115900	111500
17	119500	117700	117300	116100	116600	118200	119100	119700	117700	118500	115800	111400
18	119500	117500	116300	116100	116600	118100	119100	120100	117700	118500	115700	111300
19	119500	117500	116200	116100	116800	118200	118900	120300	117400	118300	115700	111200
20	119400	117100	116200	116100	116800	117900	119000	120300	117100	118200	115500	110900
21	119300	117400	116200	116100	116700	117900	118900	120400	117400	118200	115300	110900
22	119300	117700	116300	116000	116800	117900	118900	120400	117400	117700	115300	111700
23	119200	117200	116200	116100	116800	118100	118800	120300	117000	117700	115100	111800
24	119000	117100	116100	116100	116800	118000	119500	120200	116900	117500	114900	111700
25	118800	117000	116100	116400	116800	118200	119400	120100	116700	117400	115100	111600
26	118700	117100	116300	116400	116700	117800	119300	120100	116900	117300	114700	111500
27	118900	117100	116300	116400	116600	118600	119300	120000	116900	117000	114800	111800
28	118500	116800	116300	116300	116700	118600	119300	119800	116900	117200	114400	111600
29	118400	116900	116100	116500	117700	118600	119300	119800	116800	117100	114400	111500
30	118300	116900	116000	116300	---	118500	119300	119500	116900	117400	114300	111700
31	118000	---	116100	116300	---	118400	---	119300	---	117400	114200	---
MEAN	119500	117500	116400	116100	116700	118200	118900	119700	117700	117900	115700	112100
MAX	120400	118200	117300	116500	117700	118600	119500	120400	119000	119000	117300	113900
MIN	118000	116800	116000	115800	116500	117700	118300	119000	116700	116900	114200	110900
(*)	1926.62	1926.46	1926.35	1926.39	1926.57	1926.67	1926.80	1926.79	1926.47	1926.53	1926.09	1925.74
(**)	+300	-1100	-800	+200	+1400	+700	+900	0	-2400	+500	-3200	-2500

CAL YR 2003 MAX 178900 MIN 116000 (**) -80800
WTR YR 2004 MAX 120400 MIN 110900 (**) -6000

(*) Elevation, in feet, at end of month
(**) Change in contents, in acre-feet

06849500 REPUBLICAN RIVER BELOW HARLAN COUNTY DAM, NE

LOCATION—Lat 40°04'45", long 99°10'05", in SW 1/4 sec.6, T.1 N., R.16 W., Franklin County, Hydrologic Unit 10250016, on left bank 1.4 mi west of Naponee, 1.4 mi upstream from Turkey Creek, 2.8 mi downstream from Harlan County Dam, and at mile 234.

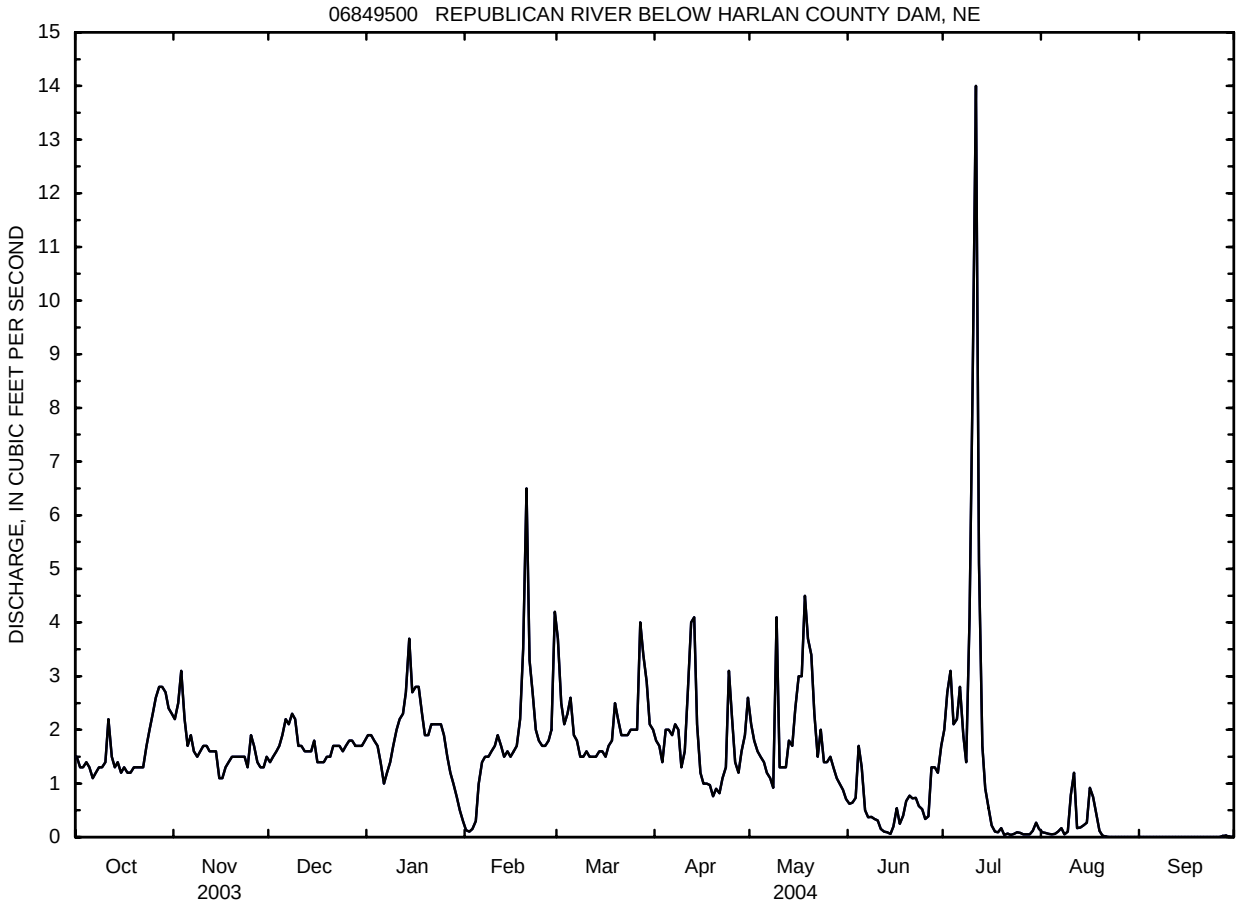
DRAINAGE AREA—20,820 mi^2, of which about 13,590 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—December 1952 to current year.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,863.38 ft above sea level (Corps of Engineers benchmark). Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor. Flow completely regulated by Harlan County Lake (station 06849000) and partially regulated by six upstream reservoirs.



06849500 REPUBLICAN RIVER BELOW HARLAN COUNTY DAM, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	2.2	1.4	1.9	e0.13	3.7	1.8	2.1	0.62	2.0	0.09	0.00
2	1.3	2.5	1.5	1.9	e0.10	2.5	1.7	1.8	0.64	2.7	0.08	0.00
3	1.3	3.1	1.6	1.8	e0.15	2.1	1.4	1.6	0.73	3.1	0.06	0.00
4	1.4	2.2	1.7	e1.7	e0.30	2.3	2.0	1.5	1.7	2.1	0.05	0.00
5	1.3	1.7	1.9	e1.4	0.99	2.6	2.0	1.4	1.3	2.2	0.06	0.00
6	1.1	1.9	2.2	e1.0	1.4	1.9	1.9	1.2	0.50	2.8	0.10	0.00
7	1.2	1.6	2.1	e1.2	1.5	1.8	2.1	1.1	0.37	1.9	0.17	0.00
8	1.3	1.5	2.3	e1.4	1.5	1.5	2.0	0.92	0.38	1.4	0.05	0.00
9	1.3	1.6	2.2	1.7	1.6	1.5	1.3	4.1	0.34	4.1	0.10	0.00
10	1.4	1.7	1.7	2.0	1.7	1.6	1.6	1.3	0.31	8.4	0.79	0.00
11	2.2	1.7	1.7	2.2	1.9	1.5	2.7	1.3	0.15	14	1.2	0.00
12	1.5	1.6	1.6	2.3	1.7	1.5	4.0	1.3	0.10	5.1	0.17	0.00
13	1.3	1.6	1.6	2.7	1.5	1.5	4.1	1.8	0.09	1.7	0.18	0.00
14	1.4	1.6	1.6	3.7	1.6	1.6	2.1	1.7	0.06	0.91	0.22	0.00
15	1.2	1.1	1.8	2.7	1.5	1.6	1.2	2.4	0.20	0.54	0.27	0.00
16	1.3	1.1	1.4	2.8	1.6	1.5	1.0	3.0	0.54	0.22	0.92	0.00
17	1.2	1.3	1.4	2.8	1.7	1.7	1.0	3.0	0.25	0.10	0.75	0.00
18	1.2	1.4	1.4	2.3	2.2	1.8	0.97	4.5	0.40	0.09	0.45	0.00
19	1.3	1.5	1.5	1.9	3.5	2.5	0.76	3.7	0.67	0.17	0.12	0.00
20	1.3	1.5	1.5	1.9	6.5	2.2	0.90	3.4	0.77	0.04	0.03	0.00
21	1.3	1.5	1.7	2.1	3.3	1.9	0.82	2.3	0.72	0.07	0.01	0.00
22	1.3	1.5	1.7	2.1	2.7	1.9	1.1	1.5	0.73	0.04	0.00	0.00
23	1.7	1.5	1.7	2.1	2.0	1.9	1.3	2.0	0.58	0.06	0.00	0.00
24	2.0	1.3	1.6	2.1	1.8	2.0	3.1	1.4	0.52	0.09	0.00	0.00
25	2.3	1.9	1.7	e1.9	1.7	2.0	2.2	1.4	0.34	0.08	0.00	0.00
26	2.6	1.7	1.8	e1.5	1.7	2.0	1.4	1.5	0.39	0.05	0.00	0.00
27	2.8	1.4	1.8	e1.2	1.8	4.0	1.2	1.3	1.3	0.05	0.00	0.02
28	2.8	1.3	1.7	e1.0	2.0	3.4	1.6	1.1	1.3	0.05	0.00	0.03
29	2.7	1.3	1.7	e0.75	4.2	2.9	1.9	1.0	1.2	0.12	0.00	0.01
30	2.4	1.5	1.7	e0.50	---	2.1	2.6	0.88	1.7	0.27	0.00	0.00
31	2.3	---	1.8	e0.30	---	2.0	---	0.71	---	0.15	0.00	---
TOTAL	51.2	49.3	53.0	56.85	54.27	65.0	53.75	58.21	18.90	54.60	5.87	0.06
MEAN	1.65	1.64	1.71	1.83	1.87	2.10	1.79	1.88	0.63	1.76	0.19	0.00
MAX	2.8	3.1	2.3	3.7	6.5	4.0	4.1	4.5	1.7	14	1.2	0.03
MIN	1.1	1.1	1.4	0.30	0.10	1.5	0.76	0.71	0.06	0.04	0.00	0.00
AC-FT	102	98	105	113	108	129	107	115	37	108	12	0.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

MEAN	114	69.6	56.6	50.9	108	120	188	192	361	695	412	122
MAX	2044	985	571	535	680	941	2400	2069	1763	2761	1726	1260
(WY)	1966	1994	1994	1966	1966	1963	1960	1960	1962	1962	1962	1996
MIN	1.65	1.64	1.71	1.83	1.87	2.10	1.79	1.22	0.63	1.76	0.19	0.00
(WY)	2004	2004	2004	2004	2004	2004	2004	2003	2004	2004	2004	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004	
ANNUAL TOTAL	16491.51		521.01			
ANNUAL MEAN	45.2		1.42		210	
HIGHEST ANNUAL MEAN					690	1966
LOWEST ANNUAL MEAN					1.42	2004
HIGHEST DAILY MEAN	390	Jul 15	14	Jul 11	4210	Nov 2 1965
LOWEST DAILY MEAN	0.74	May 18	0.00	Aug 22	0.00	Aug 22 2004
ANNUAL SEVEN-DAY MINIMUM	1.00	May 12	0.00	Aug 22	0.00	Aug 22 2004
MAXIMUM PEAK FLOW			19	Jul 11	4320	Jun 25 1957
MAXIMUM PEAK STAGE			0.62	Jul 11	8.65	Jun 25 1957
ANNUAL RUNOFF (AC-FT)	32710		1030		152100	
10 PERCENT EXCEEDS	275		2.6		635	
50 PERCENT EXCEEDS	2.2		1.5		13	
90 PERCENT EXCEEDS	1.3		0.00		3.6	

e Estimated

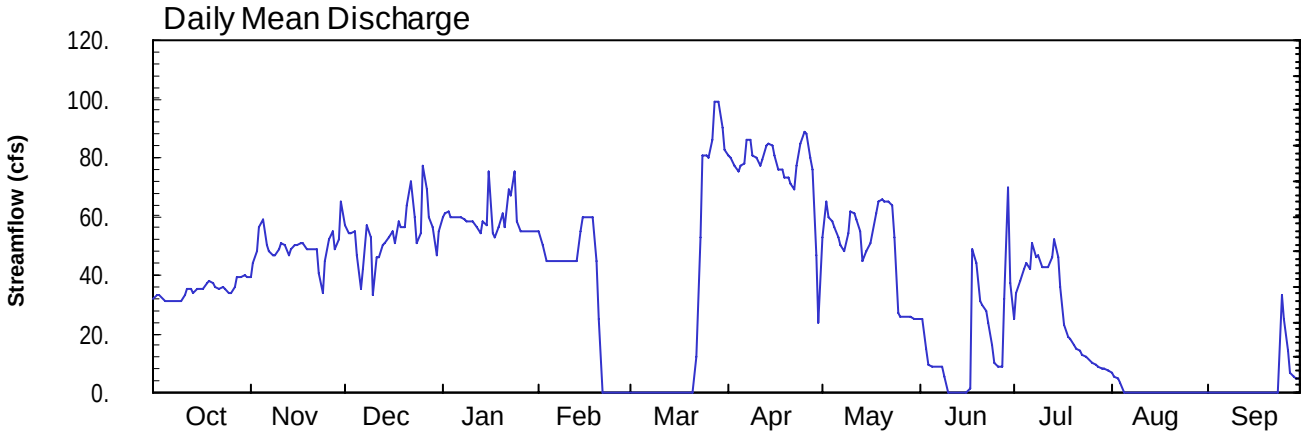
2004 Water Year

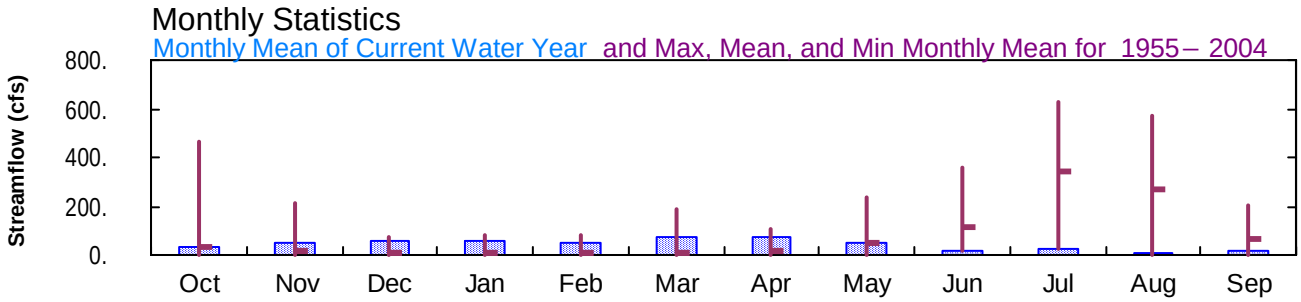
KANSAS RIVER BASIN

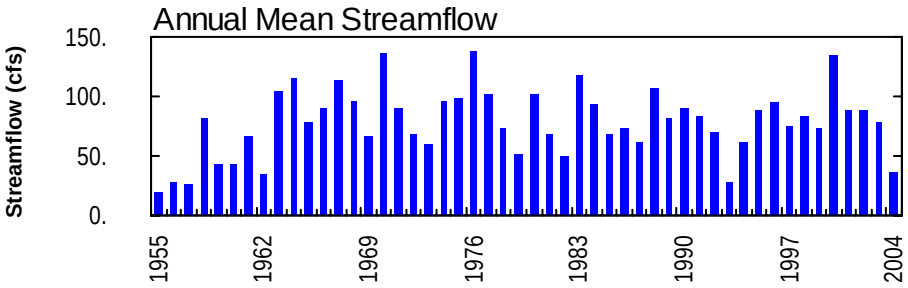
06852500 COURTLAND CANAL AT NEBRASKA-KANSAS STATE LINE

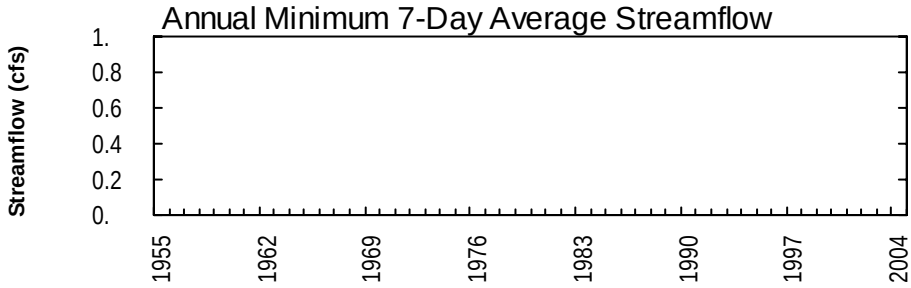
Latitude: 40°00'15" Longitude: 098°07'55" Hydrologic Unit Code: 10250016

Nuckolls County Datum: 1612.46 feet Drainage Area: mi^2









NO PHOTOS AVAILABLE FOR THIS SITE

06852500 COURTLAND CANAL AT NEBRASKA-KANSAS STATE LINE

LOCATION—Lat 40°00'15", long 98°07'55", in SW 1/4 SE 1/4 sec.32, T.1 N., R.7 W., Nuckolls County, Nebraska, Hydrologic Unit 10250016, on left bank 0.2 mi upstream from Nebraska-Kansas State line and 3.5 mi southwest of Superior, NE.

PERIOD OF RECORD—October 1954 to current year.

GAGE—Water-stage recorder and concrete Parshall flume. Datum of gage is 1,612.46 ft above sea level. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor. 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.

06852500 COURTLAND CANAL AT NEBRASKA-KANSAS STATE LINE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	39	57	60	55	0.00	81	53	25	25	6.5	0.00
2	33	44	54	61	50	0.00	80	65	25	34	5.2	0.00
3	33	48	54	62	45	0.00	77	60	15	38	5.0	0.00
4	32	56	55	60	45	0.00	75	58	9.7	42	3.2	0.00
5	31	59	47	60	45	0.00	77	56	9.1	44	e0.00	0.00
6	31	50	35	60	45	0.00	78	53	8.8	42	0.00	0.00
7	31	48	42	60	45	0.00	86	50	8.7	51	0.00	0.00
8	31	47	57	59	45	0.00	86	48	8.7	46	0.00	0.00
9	31	47	53	58	45	0.00	81	54	5.2	47	0.00	0.00
10	31	49	33	58	45	0.00	80	62	e0.00	43	0.00	0.00
11	33	51	46	58	45	0.00	77	61	e0.00	43	0.00	0.00
12	35	50	46	56	45	0.00	79	59	e0.00	43	0.00	0.00
13	35	47	50	54	45	0.00	84	55	e0.00	46	0.00	0.00
14	34	49	51	58	55	0.00	85	45	e0.00	52	0.00	0.00
15	35	50	53	57	60	0.00	84	48	e0.2	46	0.00	0.00
16	35	50	55	75	60	0.00	81	51	e0.3	36	0.00	0.00
17	35	51	51	54	60	0.00	76	54	1.6	23	0.00	0.00
18	37	51	58	53	60	0.00	76	61	49	19	0.00	0.00
19	38	49	56	56	45	0.00	73	65	44	18	0.00	0.00
20	37	49	56	61	25	0.00	73	66	31	16	0.00	0.00
21	36	49	64	56	0.00	0.00	71	65	30	15	0.00	0.00
22	35	49	72	69	0.00	12	69	65	28	14	0.00	0.00
23	36	41	60	67	0.00	53	77	64	24	13	0.00	0.00
24	35	34	51	75	0.00	81	85	53	16	12	0.00	33
25	34	45	54	58	0.00	81	89	27	10	11	0.00	25
26	34	52	77	55	0.00	80	88	26	8.9	10	0.00	14
27	36	55	69	55	0.00	86	80	26	8.8	9.5	0.00	7.0
28	39	49	60	55	0.00	99	76	26	32	8.9	0.00	5.3
29	39	52	56	55	0.00	99	47	26	70	8.4	0.00	4.5
30	40	65	47	55	---	90	24	25	37	8.0	0.00	4.7
31	39	---	55	55	---	83	---	25	---	7.5	0.00	---
TOTAL	1073	1475	1674	1835	965.00	764.00	2295	1552	506.00	871.3	19.90	93.50
MEAN	34.6	49.2	54.0	59.2	33.3	24.6	76.5	50.1	16.9	28.1	0.64	3.12
MAX	40	65	77	75	60	99	89	66	70	52	6.5	33
MIN	31	34	33	53	0.00	0.00	24	25	0.00	7.5	0.00	0.00
AC-FT	2130	2930	3320	3640	1910	1520	4550	3080	1000	1730	39	185

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2004, BY WATER YEAR (WY)

MEAN	30.8	12.9	6.42	6.94	5.37	9.83	16.5	52.9	113	341	271	64.3
MAX	464	212	75.0	84.4	82.9	187	109	237	362	627	570	205
(WY)	1958	1967	2001	1992	1992	2000	2000	1958	1988	1976	1976	1995
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.9	28.1	0.64	0.00
(WY)	1955	1955	1955	1955	1955	1955	1955	1957	2004	2004	2004	1977

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1955 - 2004		
ANNUAL TOTAL	26051.20		13123.70				
ANNUAL MEAN	71.4		35.9		78.4		
HIGHEST ANNUAL MEAN					138		1976
LOWEST ANNUAL MEAN					19.5		1955
HIGHEST DAILY MEAN	281	May 1	99	Mar 28	731	Oct 22	1957
LOWEST DAILY MEAN	0.00	Feb 19	*0.00	Feb 21	*0.00	Oct 1	1954
ANNUAL SEVEN-DAY MINIMUM	0.00	Feb 19	0.00	Feb 21	0.00	Oct 1	1954
MAXIMUM PEAK FLOW					781	Sep 2	1973
MAXIMUM PEAK STAGE					5.05	Sep 2	1973
ANNUAL RUNOFF (AC-FT)	51670		26030		56770		
10 PERCENT EXCEEDS	186		73		285		
50 PERCENT EXCEEDS	56		42		0.00		
90 PERCENT EXCEEDS	0.00		0.00		0.00		

e Estimated
* No flow for many days each year

2004 Water Year

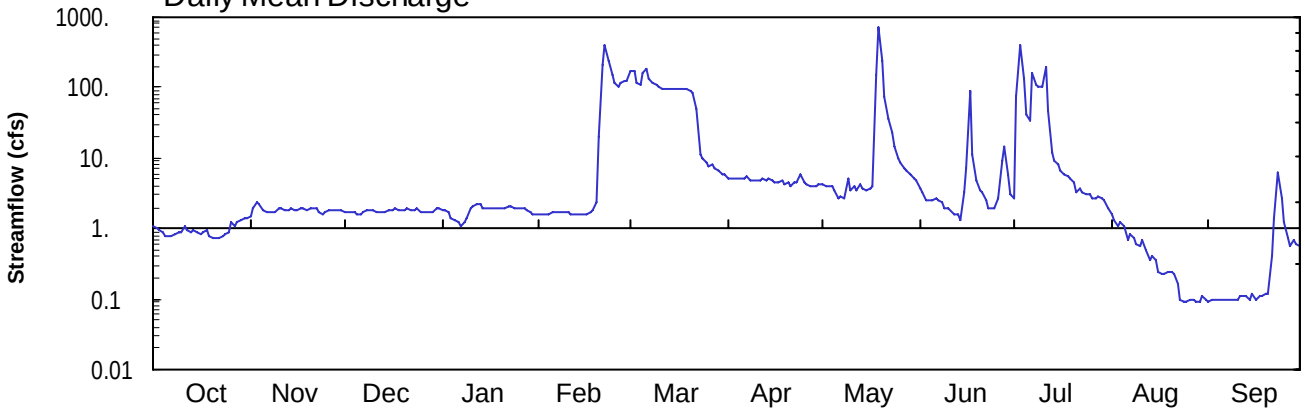
KANSAS RIVER BASIN

06853020 REPUBLICAN RIVER AT GUIDE ROCK, NE

Latitude: 40°03'51" Longitude: 098°19'50" Hydrologic Unit Code: 10250016

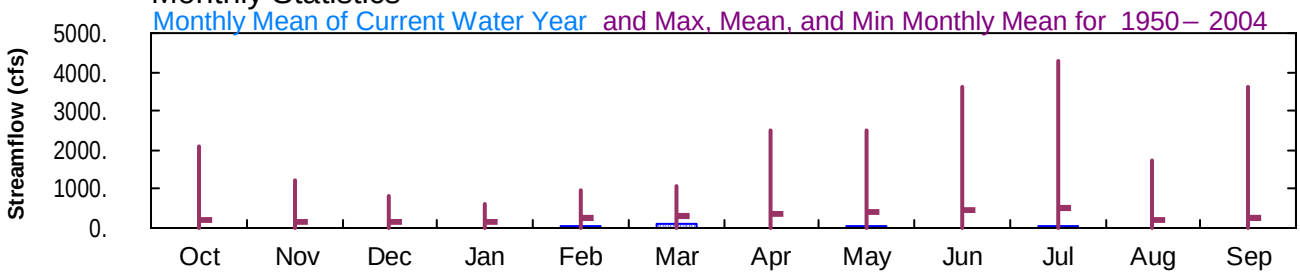
Webster County Datum: 1616.15 feet Drainage Area: 22100 mi²

Daily Mean Discharge

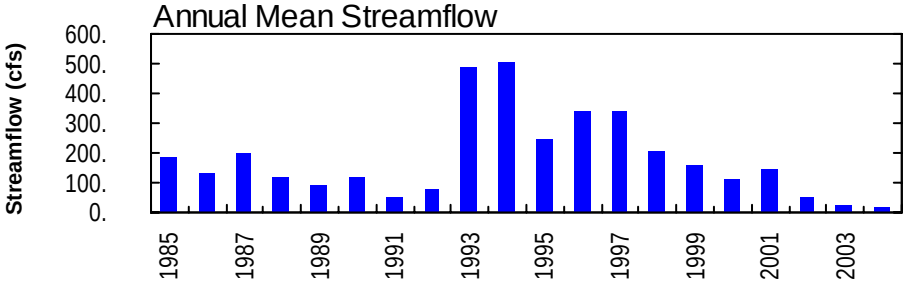


Monthly Statistics

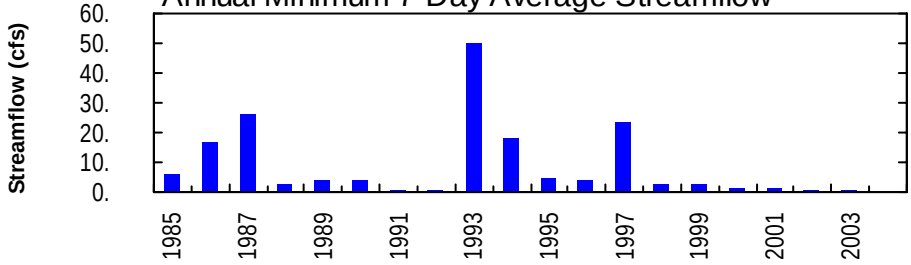
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1950 – 2004



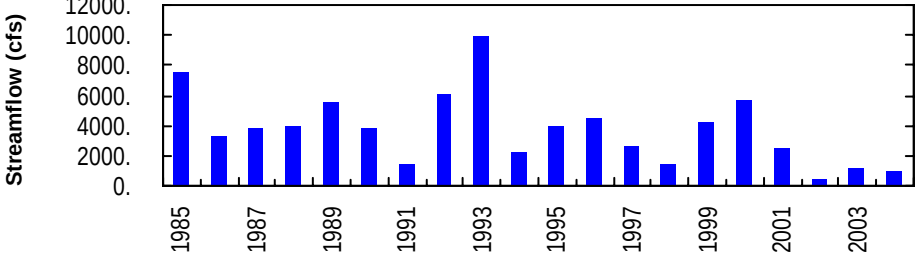
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



NO PHOTOS AVAILABLE FOR THIS SITE

06853020 REPUBLICAN RIVER AT GUIDE ROCK, NE

LOCATION—Lat 40°03'49", long 98°19'53", in NE 1/4 SE 1/4 sec.9, T.1 N., R.9 W., Webster County, Hydrologic Unit 10250016, on left downstream bank at Nebraska State Highway 78 bridge, 0.2 mi downstream from Minnie Creek and 0.5 mi south of Guide Rock. Station is 3.1 river miles downstream from station 06853000, Republican River near Guide Rock, previous site, and at mile 176.

DRAINAGE AREA—22,100 mi^2, approximately, of which about 14,610 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—August 1950 to current year. August 1950 to September 1984 published as Republican River near Guide Rock (06853000).

REVISED RECORDS—WDR NE-97-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,616.15 ft above sea level, levels by U.S. Corps of Engineers. Prior to Oct. 1, 1959, at datum 12.98 ft higher, and Oct. 1, 1959 to Nov. 28, 1984, at datum 7.98 ft higher, both at site 3.1 miles upstream. Data collection platform at station

REMARKS—Records good except for estimated daily discharges, which are poor. Natural flow affected by irrigation development above station, by regulation of upstream reservoirs, and since Nov. 14, 1952, by storage in Harlan County Lake (station 06849000).

COOPERATION—Records provided by Nebraska Department of Natural Resources and reviewed by the U.S. Geological Survey.

06853020 REPUBLICAN RIVER AT GUIDE ROCK, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.5	1.7	1.8	e1.6	169	5.3	4.2	3.8	2.7	1.6	0.09
2	0.99	1.9	1.7	1.8	e1.6	173	5.2	4.1	3.2	74	1.3	0.10
3	0.96	2.4	1.7	1.7	e1.6	117	5.2	4.1	2.6	404	1.1	0.10
4	0.87	2.2	1.7	e1.4	e1.6	109	5.2	4.1	2.5	131	1.2	0.10
5	0.80	1.8	e1.6	e1.3	e1.7	167	5.0	3.5	2.5	41	1.1	0.10
6	0.79	1.7	e1.6	e1.2	e1.7	184	5.3	2.7	2.7	35	0.67	0.10
7	0.80	1.7	e1.7	e1.1	e1.7	136	5.6	2.8	2.5	163	0.84	0.10
8	0.83	1.7	1.8	e1.2	e1.7	116	4.9	2.7	2.3	111	0.73	0.10
9	0.87	1.7	1.8	e1.4	e1.7	109	4.8	5.0	2.0	100	0.59	0.10
10	0.91	2.0	e1.8	e2.0	e1.7	103	4.8	3.6	2.0	100	0.56	0.10
11	1.1	1.9	e1.7	e2.1	e1.6	98	4.8	4.0	1.8	196	0.67	0.11
12	0.98	1.8	e1.7	2.2	e1.6	97	5.2	3.5	1.6	46	0.50	0.11
13	0.89	1.8	e1.7	2.2	e1.6	99	4.9	4.2	1.6	12	0.36	0.11
14	0.94	1.9	e1.7	2.0	e1.6	98	5.0	3.7	1.3	9.4	0.41	0.10
15	0.88	1.8	1.8	e2.0	e1.6	99	4.8	3.5	3.3	8.2	0.35	0.12
16	0.85	1.8	1.8	e2.0	e1.6	97	4.6	3.8	7.2	6.9	0.25	0.10
17	0.89	1.9	2.0	e2.0	e1.7	98	4.6	4.1	91	6.0	0.23	0.11
18	0.94	1.9	1.8	e2.0	e1.8	98	4.9	156	11	5.5	0.23	0.11
19	0.77	1.8	1.8	e2.0	e2.4	95	4.3	724	4.8	5.1	0.25	0.12
20	0.72	1.9	1.8	e2.0	e20	92	4.4	246	3.6	4.4	0.25	0.12
21	0.73	1.9	1.9	e2.0	e205	85	4.1	75	3.2	3.3	0.23	0.41
22	0.74	1.9	1.8	e2.1	401	49	4.4	36	2.5	3.7	0.16	1.4
23	0.79	e1.7	1.8	2.1	242	11	4.4	23	1.9	3.3	0.10	6.4
24	0.86	e1.6	1.9	2.0	154	9.6	5.7	15	2.0	3.0	0.09	2.7
25	0.91	e1.7	1.7	e2.0	120	8.7	4.6	9.7	2.0	3.0	0.09	1.2
26	1.2	1.8	1.7	e1.9	102	7.8	4.2	8.4	2.7	2.7	0.10	0.71
27	1.1	1.8	1.7	e1.9	115	8.2	4.1	7.3	9.1	2.7	0.10	0.56
28	1.2	1.8	1.7	e1.8	123	7.2	4.0	6.6	15	2.8	0.09	0.70
29	1.3	1.8	1.7	e1.7	123	6.5	3.9	5.8	5.9	2.7	0.09	0.62
30	1.4	1.8	2.0	e1.6	---	6.0	4.3	5.0	3.0	2.5	0.11	0.56
31	1.4	---	1.9	e1.6	---	5.7	---	4.7	---	2.0	0.10	---
TOTAL	29.51	54.9	54.7	56.1	1637.1	2558.7	142.5	1386.1	200.6	1492.9	14.45	17.36
MEAN	0.95	1.83	1.76	1.81	56.5	82.5	4.75	44.7	6.69	48.2	0.47	0.58
MAX	1.4	2.4	2.0	2.2	401	184	5.7	724	91	404	1.6	6.4
MIN	0.72	1.5	1.6	1.1	1.6	5.7	3.9	2.7	1.3	2.0	0.09	0.09
AC-FT	59	109	108	111	3250	5080	283	2750	398	2960	29	34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

MEAN	193	175	152	146	238	304	346	393	449	487	228	262
MAX	2073	1245	819	588	948	1077	2484	2511	3619	4298	1712	3602
(WY)	1966	1994	1994	1952	1952	1952	1960	1960	1951	1951	1962	1951
MIN	0.95	1.83	1.76	1.81	3.86	22.5	4.75	7.04	6.69	14.5	0.47	0.58
(WY)	2004	2004	2004	2004	1992	1992	2004	1989	2004	2003	2004	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004	
ANNUAL TOTAL	10758.86		7644.92			
ANNUAL MEAN	29.5		20.9		280	
HIGHEST ANNUAL MEAN					1495	1951
LOWEST ANNUAL MEAN					20.9	2004
HIGHEST DAILY MEAN	944	Jun 24	724	May 19	20900	Jun 16 1957
LOWEST DAILY MEAN	0.67	Sep 29	0.09	Aug 24	0.09	Aug 24 2004
ANNUAL SEVEN-DAY MINIMUM	0.76	Sep 23	0.09	Aug 23	0.09	Aug 23 2004
MAXIMUM PEAK FLOW			870	May 19	29200	Jun 16 1957
MAXIMUM PEAK STAGE			7.40	May 19	*20.73	Jun 16 1957
ANNUAL RUNOFF (AC-FT)	21340		15160		203000	
10 PERCENT EXCEEDS	86		97		657	
50 PERCENT EXCEEDS	4.6		1.9		113	
90 PERCENT EXCEEDS	0.96		0.32		9.7	

e Estimated
* Site and datum then in use

06853500 REPUBLICAN RIVER NEAR HARDY, NE

LOCATION—Lat 39°59'33", long 97°55'56", in NE ¼ NE ¼ SE ¼ sec.1, T.1 S., R.6 W., in Kansas, Republic County, Hydrologic Unit 10250016, on right bank at upstream side of county highway bridge, 1.2 mi southwest of Hardy, NE, and at mile 141.2.

DRAINAGE AREA—22,401 mi^2, of which about 7,500 mi^2 does not contribute directly to surface runoff.

PERIOD OF RECORD—June 1904 to September 1915 (no winter records), April 1931 to current year. Prior to May 1932, published as "at Bostwick." Records for June 1896 to November 1903 published as "near Superior" in 18th to 22nd Ann. Repts., inclusive, Pt. 4, and WSP 75, 84, and 99, have been found to be unreliable and should not be used.

REVISED RECORDS—WSP 806: Drainage area. WSP 1006: 1941. WSP 1340: 1905(M), 1907-09, 1912, 1914-15, 1931. See also PERIOD OF RECORD.

GAGE—Water-stage recorder. Datum of gage is 1,501.46 ft above NGVD of 1929. Prior to May 19, 1932, nonrecording gage at site at Bostwick, 20 mi upstream at different datum.

REMARKS—Records good except those for estimated daily discharges, which are poor. Natural flow affected by irrigation development upstream from station and by storage in reservoirs in Colorado, Kansas, and Nebraska. Considerable regulation since 1952 by Harlan County Lake (station 06849000). Satellite telemeter at station.

COOPERATION—Records provided by U.S. Geological Survey, Kansas Water Science Center.

EXTREMES OUTSIDE PERIOD OF RECORD—Maximum stages since at least 1895, that of June 2, 1935, and 17.00 ft June 24, 1947, discharge, 100,000 ft^3/s, based on records for upstream stations.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	22	26	24	e20	209	54	39	48	43	23	8.6
2	24	34	26	24	e21	208	52	37	45	98	42	8.9
3	22	35	26	24	e22	209	49	37	45	943	75	11
4	21	43	26	e23	e24	190	48	37	40	436	63	10
5	21	35	26	e22	e23	333	47	36	40	335	57	13
6	20	32	25	e21	e21	315	47	36	41	175	50	15
7	20	30	26	e21	e18	257	48	34	40	121	38	13
8	19	29	27	e22	e17	206	50	33	37	251	e33	13
9	20	28	24	e24	e18	176	44	61	35	692	e26	13
10	20	28	e23	e30	e19	161	43	105	32	427	e24	12
11	23	28	e23	e34	e20	152	43	118	32	289	e20	13
12	22	27	e22	e34	e20	144	44	62	36	204	16	12
13	21	26	e22	e32	e21	141	46	49	48	204	16	11
14	22	27	e22	e31	e22	139	44	45	38	134	16	11
15	21	26	e23	e28	e23	138	43	43	104	81	15	15
16	21	26	e28	e27	e23	136	42	41	109	72	15	17
17	22	26	e35	e27	e25	133	41	41	76	60	13	16
18	22	25	30	e27	e26	133	41	82	102	53	16	15
19	21	25	29	e29	e30	131	40	98	95	50	33	14
20	20	25	28	e29	e40	129	40	540	64	46	27	13
21	19	25	29	e28	e70	125	39	350	57	42	20	13
22	19	25	29	e27	e170	121	40	193	50	41	18	14
23	19	e25	27	e26	325	113	41	120	45	42	15	27
24	19	e23	26	e26	255	80	46	89	39	38	15	21
25	19	e24	25	e25	189	69	48	73	36	38	15	18
26	20	e26	26	e22	156	67	43	70	36	35	12	16
27	21	27	27	e20	142	74	40	63	61	34	10	15
28	21	26	26	e18	148	75	39	59	65	33	7.9	14
29	22	26	25	e18	173	65	37	59	55	34	8.9	15
30	21	26	24	e18	---	58	38	60	51	28	7.9	14
31	21	---	24	e20	---	56	---	51	---	26	8.1	---
MEAN	20.9	27.7	26.0	25.2	71.8	147	43.9	89.1	53.4	165	24.4	14.1
MAX	25	43	35	34	325	333	54	540	109	943	75	27
MIN	19	22	22	18	17	56	37	33	32	26	7.9	8.6
AC-FT	1,290	1,650	1,600	1,550	4,130	9,010	2,610	5,480	3,180	10,130	1,500	836

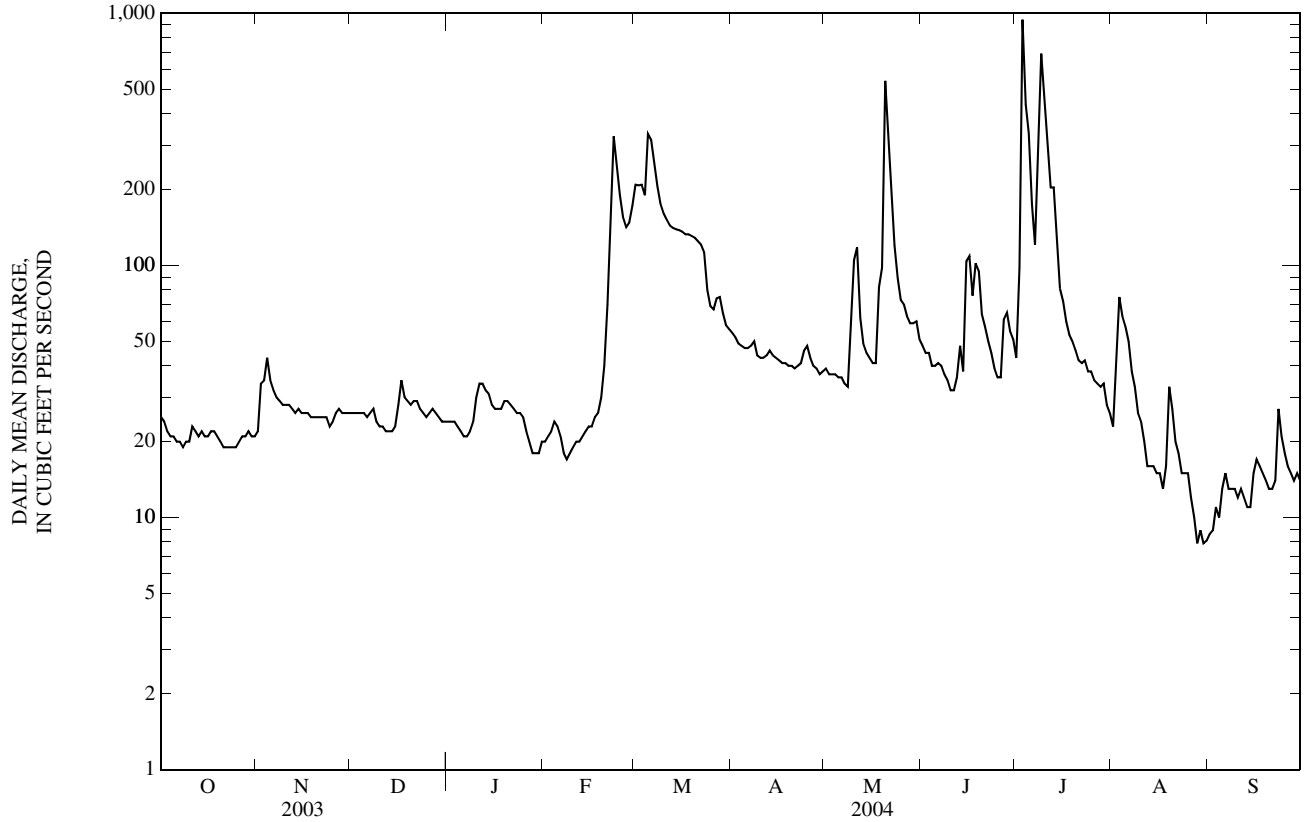
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2004, BY WATER YEAR (WY)

MEAN	263	219	191	182	286	402	421	467	471	493	298	300
MAX	1,970	1,308	928	636	968	1,584	2,415	2,523	2,031	3,210	1,800	1,455
(WY)	(1966)	(1994)	(1994)	(1966)	(1966)	(1993)	(1960)	(1960)	(1960)	(1993)	(1962)	(1973)
MIN	17.2	22.3	20.0	23.2	27.0	66.5	39.1	29.6	46.5	44.3	24.4	14.1
(WY)	(1992)	(1992)	(2003)	(2003)	(1992)	(1991)	(1991)	(1992)	(1992)	(2003)	(2004)	(2004)

06853500 REPUBLICAN RIVER NEAR HARDY, NE—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1958 - 2004	
ANNUAL MEAN	72.4		59.2		333	
HIGHEST ANNUAL MEAN					800	1960
LOWEST ANNUAL MEAN					59.2	2004
HIGHEST DAILY MEAN	2,120	Jun 23	943	Jul 3	15,000	Oct 1, 1983
LOWEST DAILY MEAN	12	Aug 17	7.9	Aug 28	4.8	Aug 3, 1991
ANNUAL SEVEN-DAY MINIMUM	17	Sep 3	8.6	Aug 27	8.6	Aug 27, 2004
MAXIMUM PEAK FLOW			1,470	Jul 3	225,000	Jun 2, 1935
MAXIMUM PEAK STAGE			6.12	Jul 3	19.40	Jun 2, 1935
INSTANTANEOUS LOW FLOW			6.3	Aug 28	0.00	Aug 9, 1934
ANNUAL RUNOFF (AC-FT)	52,390		42,940		241,100	
10 PERCENT EXCEEDS	103		137		745	
50 PERCENT EXCEEDS	33		30		161	
90 PERCENT EXCEEDS	21		16		48	

e Estimated



2004 Water Year

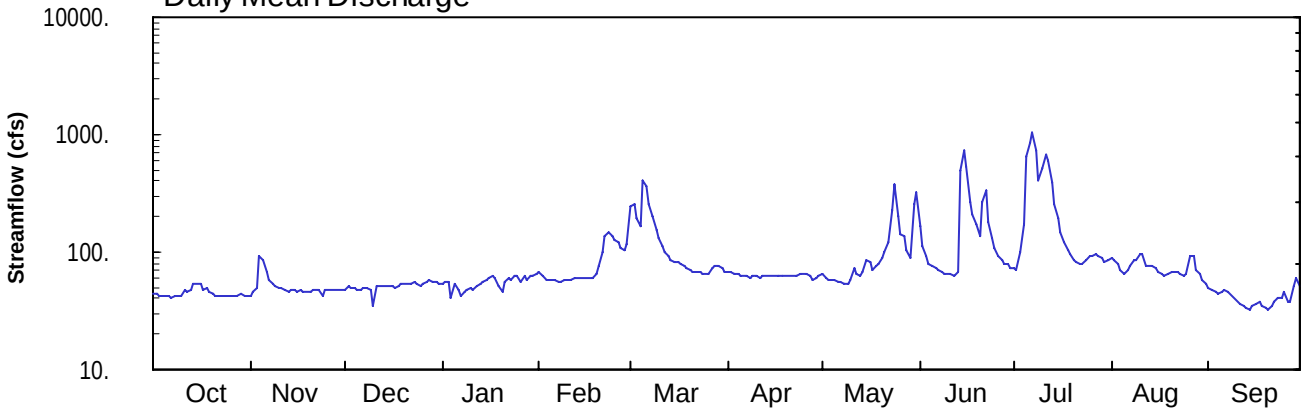
KANSAS RIVER BASIN

06880800 WEST FORK BIG BLUE RIVER NR DORCHESTER, NEBR.

Latitude: 40° 43 ' 52" Longitude: 097° 10 ' 38" Hydrologic Unit Code: 10270203

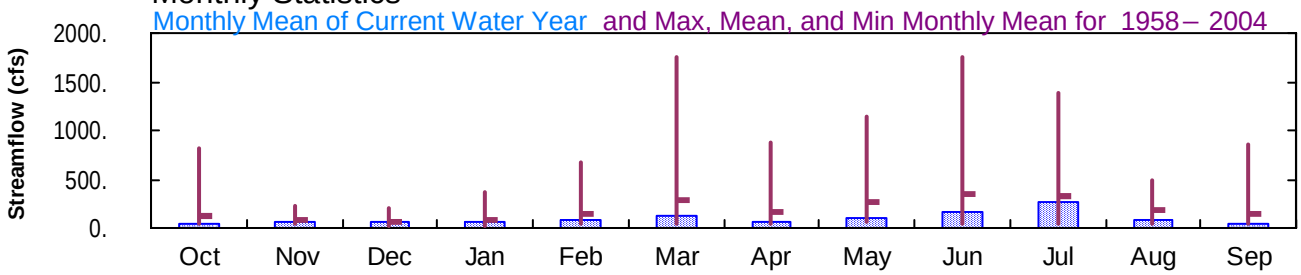
Seward County Datum: 1403.48 feet Drainage Area: 1192. mi^2

Daily Mean Discharge

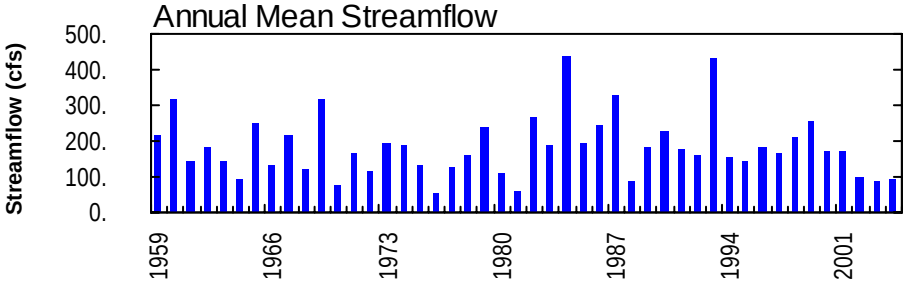


Monthly Statistics

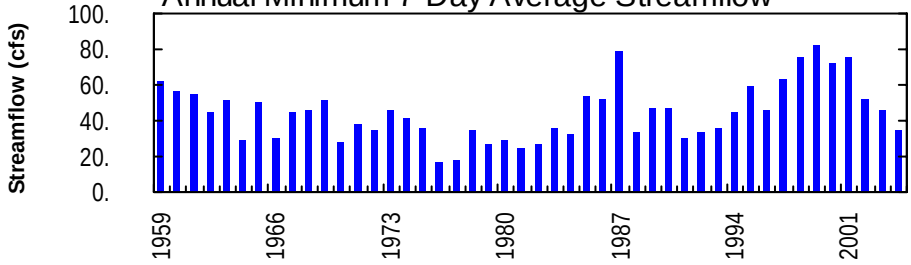
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1958 – 2004



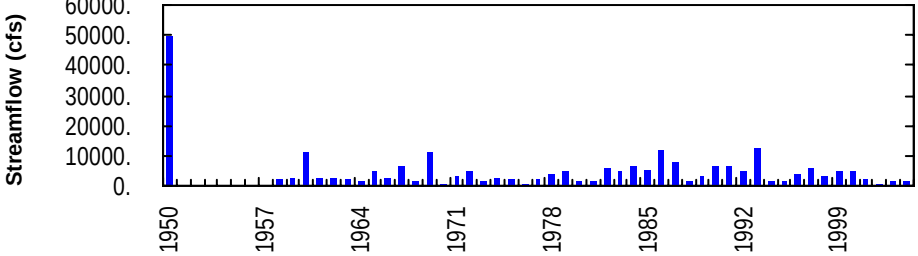
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



NO PHOTOS AVAILABLE FOR THIS SITE

06880800 WEST FORK BIG BLUE RIVER NEAR DORCHESTER, NE

LOCATION—Lat 40°43'52", long 97°10'38", in SW 1/4 SW 1/4 sec.23, T.9 N., R.2 E., Seward County, Hydrologic Unit 10270203, on right bank 60 ft downstream from bridge on county road, 6.2 mi northwest of Dorchester, and 22.8 mi upstream from mouth.

DRAINAGE AREA—1,192 mi^2.

PERIOD OF RECORD—August 1958 to current year.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,403.48 ft above sea level. Prior to Apr. 14, 1970, on bridge pier 60 ft upstream at same datum. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, 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.

06880800 WEST FORK BIG BLUE RIVER NEAR DORCHESTER, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	43	48	54	e67	246	68	64	169	72	89	50
2	44	45	51	55	e63	258	67	61	111	70	86	48
3	43	49	50	56	e59	195	66	59	91	101	80	46
4	43	91	50	e40	e59	168	64	58	80	170	70	44
5	42	86	48	e54	e58	415	63	57	75	662	65	45
6	42	68	48	e47	e57	358	63	56	72	856	71	47
7	41	59	50	e43	e55	253	62	55	70	1040	76	45
8	43	54	50	e45	e56	198	61	54	67	745	85	44
9	43	51	e48	e47	e58	155	62	54	65	402	85	40
10	43	50	e35	e49	e59	131	63	59	65	518	95	37
11	47	49	e51	e48	e59	112	61	72	64	681	96	36
12	46	47	e52	e51	e60	99	62	64	63	594	77	35
13	47	46	e51	e54	e60	93	62	63	68	392	75	33
14	53	47	e51	e56	e60	84	62	68	489	258	75	32
15	53	47	e52	59	e60	83	63	87	732	194	72	35
16	54	46	e51	60	e60	81	63	82	534	150	67	36
17	48	47	e50	62	e61	78	62	70	264	121	64	38
18	49	46	52	61	e61	76	62	76	210	104	63	35
19	46	45	53	e52	e66	72	63	80	176	95	64	33
20	44	46	53	e46	e77	70	62	89	135	86	68	32
21	43	47	53	e56	101	67	62	99	270	83	69	35
22	43	47	54	e61	137	67	63	122	336	78	67	37
23	42	47	55	e58	145	67	63	224	182	80	65	41
24	42	43	53	63	138	66	64	376	131	86	62	40
25	42	48	52	63	126	66	65	204	108	91	64	45
26	42	48	53	e55	123	65	64	144	94	91	94	38
27	43	48	56	e62	107	73	62	136	86	95	93	37
28	43	47	57	e59	104	77	59	103	80	94	71	52
29	44	47	55	e63	116	75	60	90	78	88	64	61
30	43	47	55	e62	---	72	62	251	74	83	59	51
31	43	---	53	e66	---	68	---	317	---	86	53	---
TOTAL	1385	1531	1590	1707	2312	3988	1885	3394	5039	8266	2284	1228
MEAN	44.7	51.0	51.3	55.1	79.7	129	62.8	109	168	267	73.7	40.9
MAX	54	91	57	66	145	415	68	376	732	1040	96	61
MIN	41	43	35	40	55	65	59	54	63	70	53	32
AC-FT	2750	3040	3150	3390	4590	7910	3740	6730	9990	16400	4530	2440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2004, BY WATER YEAR (WY)

MEAN	115	81.2	69.3	73.6	139	295	168	259	350	320	183	150
MAX	812	224	202	377	671	1762	887	1147	1749	1395	480	855
(WY)	1974	1997	1998	1973	1984	1993	1984	1984	1967	1986	1993	1989
MIN	35.7	33.6	26.4	25.4	40.1	41.6	50.0	60.4	43.1	46.7	34.8	33.1
(WY)	1982	1981	1977	1977	1979	1981	1981	1989	1981	1980	1976	1976

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1958 - 2004	
ANNUAL TOTAL	31765		34609			
ANNUAL MEAN	87.0		94.6		183	
HIGHEST ANNUAL MEAN					441	1984
LOWEST ANNUAL MEAN					54.4	1976
HIGHEST DAILY MEAN	1170	Sep 11	1040	Jul 7	11100	Mar 11 1993
LOWEST DAILY MEAN	35	Dec 10	32	Sep 14	12	Dec 31 1976
ANNUAL SEVEN-DAY MINIMUM	42	Oct 3	34	Sep 14	17	Jul 11 1976
MAXIMUM PEAK FLOW			1100	Jul 7	*12400	Mar 11 1993
MAXIMUM PEAK STAGE			8.83	Jul 7	**22.62	Jul 1 1986
ANNUAL RUNOFF (AC-FT)	63010		68650		132900	
10 PERCENT EXCEEDS	103		152		302	
50 PERCENT EXCEEDS	68		62		83	
90 PERCENT EXCEEDS	46		43		47	

e Estimated
* Stage 21.71 ft
** Discharge 11800 ft^3/s

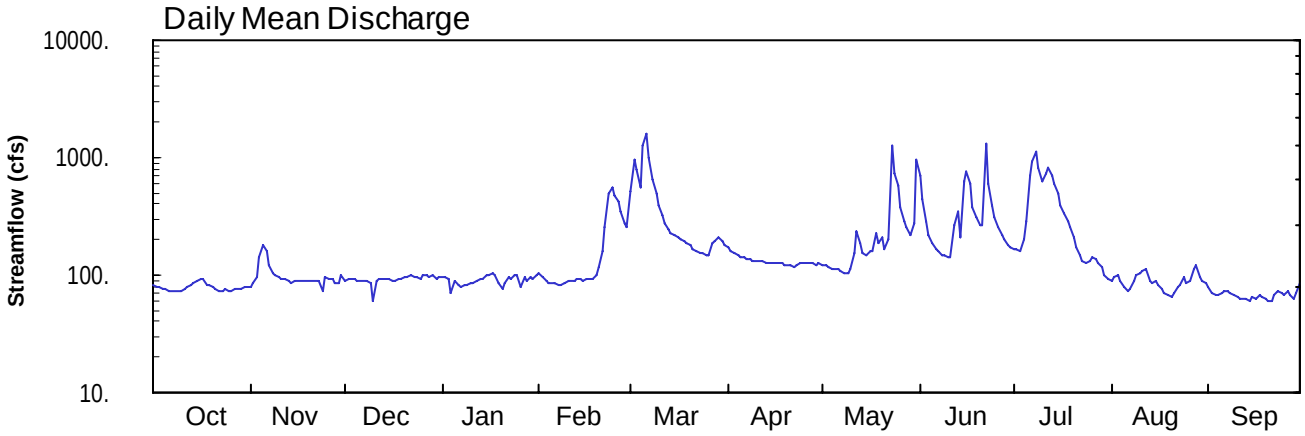
2004 Water Year

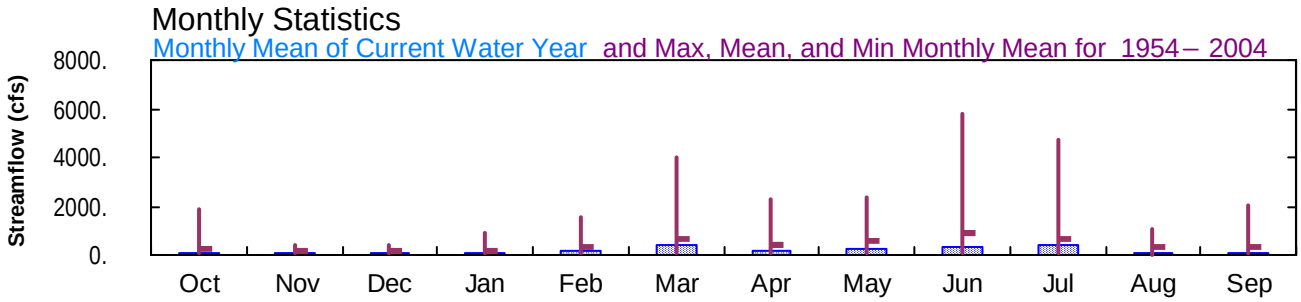
KANSAS RIVER BASIN

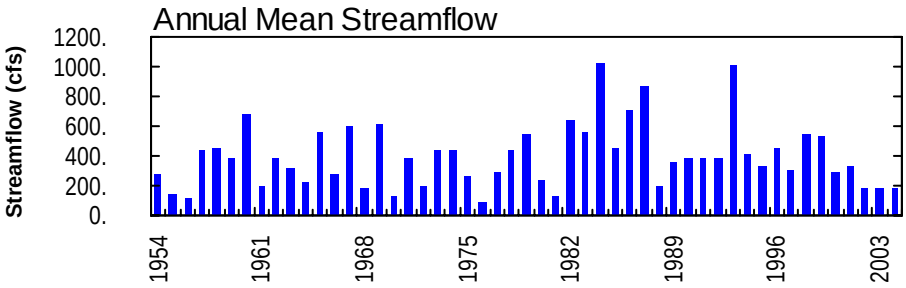
06881000 BIG BLUE RIVER NEAR CRETE, NEBR.

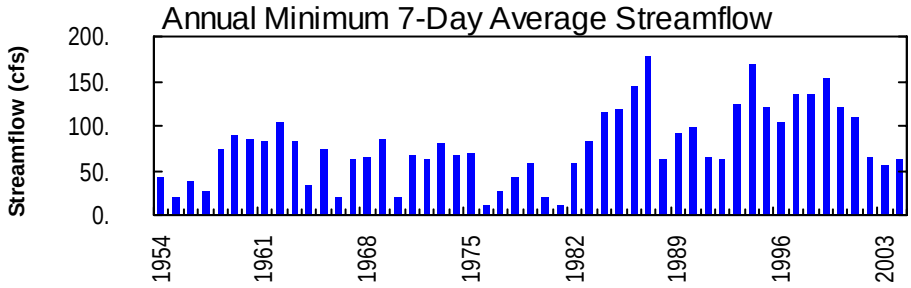
Latitude: 40° 35 ' 47" Longitude: 096° 57 ' 37" Hydrologic Unit Code: 10270202

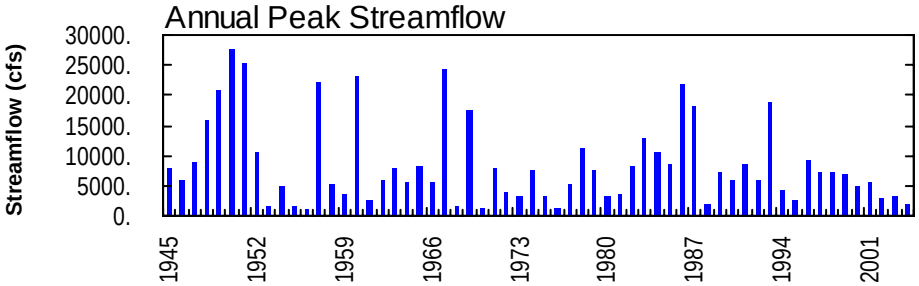
Saline County Datum: 1311.70 feet Drainage Area: 2710. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06881000 BIG BLUE RIVER NEAR CRETE, NE

LOCATION—Lat 40°35'47", long 96°57'33", in SW 1/4 SE 1/4 sec.3, T.7 N., R.4 E., Saline County, Hydrologic Unit 10270202, on right bank near downstream side of county road bridge, 1.8 mi south of Missouri Pacific Railroad station in Crete, 3.3 mi downstream from Walnut Creek, 3.6 mi upstream from Squaw Creek, and at mile 167.

DRAINAGE AREA—2,710 mi^2.

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 power plant upstream in 1952-53.

REVISED RECORDS—WDR NE-94-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,311.7 ft above sea level. Prior to Jan. 20, 1954, non-recording gage and Jan. 21, 1954 to Mar. 27, 1986, recording gage on right bank at downstream side of county road bridge at present datum. Mar. 28, 1986 to May 11, 1988 at temporary location, on right bank 250 ft downstream from bridge at present datum. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges which are poor. Natural flow of stream affected by ground-water and surface-water withdrawals for irrigation and return flow from irrigated areas.

06881000 BIG BLUE RIVER NEAR CRETE, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	79	90	95	102	520	171	122	702	167	89	78
2	80	84	91	97	97	960	162	121	445	169	97	71
3	79	96	93	93	e88	787	154	116	291	160	99	67
4	77	141	92	e70	87	556	149	114	220	205	90	69
5	75	182	90	e90	87	1240	143	112	184	284	80	71
6	74	161	89	e82	86	1580	140	112	166	706	74	74
7	74	123	89	e78	e81	1010	138	109	157	913	76	72
8	74	106	90	e81	e83	648	136	105	150	1110	88	70
9	73	99	85	83	85	498	133	104	147	836	101	69
10	72	95	60	86	89	393	134	111	143	622	106	65
11	77	93	90	85	89	324	132	154	144	737	108	62
12	79	91	e93	90	e90	277	130	240	268	820	113	62
13	82	88	91	94	e91	245	128	186	353	715	89	62
14	85	87	91	94	91	225	128	154	211	609	85	60
15	90	88	92	99	e90	220	128	146	615	491	89	65
16	92	89	90	100	91	207	128	158	752	396	83	63
17	91	89	89	104	92	198	127	158	597	332	75	67
18	82	90	92	e100	93	192	126	225	380	282	70	65
19	81	90	93	e85	100	187	123	190	310	251	67	63
20	79	90	95	76	117	179	123	210	268	213	66	60
21	76	89	96	86	160	168	121	168	266	176	71	60
22	74	89	100	98	253	160	119	204	1340	146	79	68
23	74	89	95	93	496	155	120	1270	606	130	82	73
24	75	74	95	99	554	152	127	731	385	127	97	70
25	74	97	93	99	476	150	126	578	306	133	87	69
26	73	91	99	e80	421	149	127	380	259	144	90	72
27	75	94	99	e95	349	184	126	290	222	139	112	67
28	76	86	95	e89	e275	194	126	256	200	124	122	63
29	77	84	99	e97	258	208	122	215	183	116	98	70
30	78	101	93	e92	---	197	124	273	172	100	90	87
31	79	---	96	e101	---	181	---	961	---	92	85	---
TOTAL	2429	2955	2845	2811	5071	12344	3971	8273	10442	11445	2758	2034
MEAN	78.4	98.5	91.8	90.7	175	398	132	267	348	369	89.0	67.8
MAX	92	182	100	104	554	1580	171	1270	1340	1110	122	87
MIN	72	74	60	70	81	149	119	104	143	92	66	60
AC-FT	4820	5860	5640	5580	10060	24480	7880	16410	20710	22700	5470	4030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

MEAN	231	156	133	141	298	671	389	550	901	650	329	308
MAX	1864	439	390	865	1576	3968	2257	2339	5808	4739	1048	2065
(WY)	1974	1974	1998	1973	1984	1993	1984	1984	1967	1986	1987	1989
MIN	46.5	41.1	60.3	52.2	66.8	86.3	92.2	84.5	70.7	48.6	28.4	51.2
(WY)	1957	1957	1977	1978	1977	1977	1967	1967	1981	1970	1955	1976

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004	
ANNUAL TOTAL	63362		67378			
ANNUAL MEAN	174		184		397	
HIGHEST ANNUAL MEAN					1030	1984
LOWEST ANNUAL MEAN					96.6	1976
HIGHEST DAILY MEAN	2740	Sep 12	1580	Mar 6	21400	Jun 19 1957
LOWEST DAILY MEAN	52	Aug 29	60	Dec 10	6.0	Aug 1 1980
ANNUAL SEVEN-DAY MINIMUM	55	Jan 17	63	Sep 10	11	Jul 12 1976
MAXIMUM PEAK FLOW			1860	Mar 5	*27600	Jul 10 1950
MAXIMUM PEAK STAGE			14.17	Mar 5	**29.86	Jul 3 1986
ANNUAL RUNOFF (AC-FT)	125700		133600		287400	
10 PERCENT EXCEEDS	265		387		709	
50 PERCENT EXCEEDS	99		99		158	
90 PERCENT EXCEEDS	66		74		79	

e Estimated
* Stage 28.74 ft
** Discharge 21600 ft^3/s, from floodmark

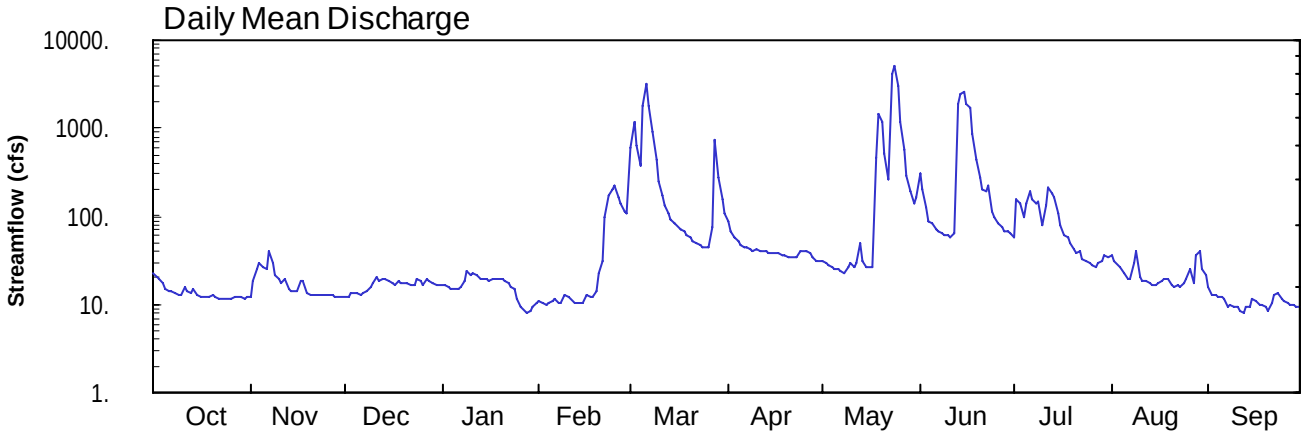
2004 Water Year

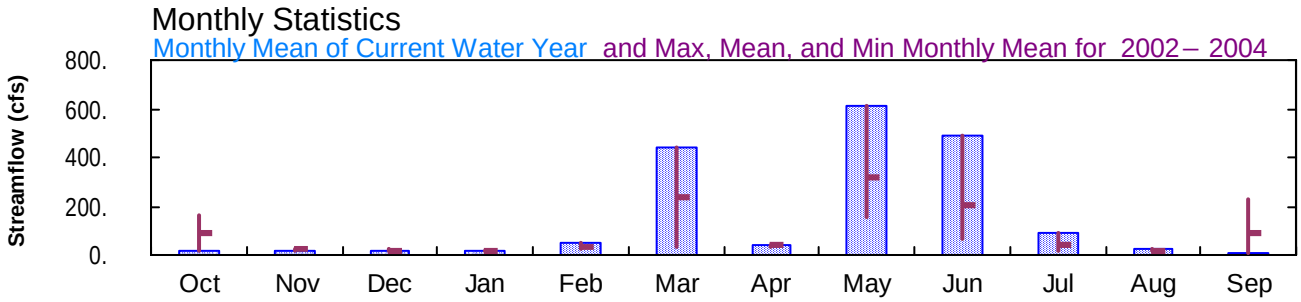
KANSAS RIVER BASIN

06881380 TURKEY CREEK NEAR DE WITT, NEBR.

Latitude: 40° 22 ' 01" Longitude: 096° 53 ' 21" Hydrologic Unit Code: 10270204

Gage County Datum: 1253.80 feet Drainage Area: mi^2





NO PHOTOS AVAILABLE FOR THIS SITE

06881380 TURKEY CREEK NEAR DEWITT, NE

LOCATION—Lat 40°22'03", long 96°53'36", in NW 1/4 SW 1/4 sec. 29, T.5N., R.5E., Gage County, Hydrologic Unit 10270202, on right downstream end of county road bridge, 2.2 mi southeast of Dewitt.

DRAINAGE AREA—740 mi^2 approximately.

PERIOD OF RECORD—April 2002 to current year. Miscellaneous measurements made at this location from 1989 to 2001.

GAGE—Water-stage recorder. Datum of gage is 1,253.80 ft above sea level. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges and records for June 10-20, which are poor.

06881380 TURKEY CREEK NEAR DE WITT, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	12	12	16	e11	594	86	31	306	58	36	16
2	21	18	12	16	e10	1210	67	29	205	154	31	13
3	19	26	14	16	e9.6	641	57	28	124	139	28	13
4	17	29	14	e15	e10	380	51	27	89	96	26	12
5	15	26	13	e15	e11	1790	47	26	82	142	22	12
6	15	25	13	e15	e12	3250	45	25	73	189	20	11
7	14	40	14	e16	e10	1780	44	24	68	157	20	9.5
8	13	29	14	e19	e11	923	43	23	64	141	30	9.7
9	13	22	16	24	e13	431	41	27	62	148	41	9.3
10	13	19	18	22	e12	246	42	30	60	78	21	9.5
11	16	18	20	22	e12	169	40	27	58	131	18	8.4
12	14	19	18	21	e10	130	41	30	64	210	18	8.2
13	13	15	19	19	e11	107	39	49	1940	182	18	9.4
14	15	14	19	19	e10	92	38	30	2480	162	16	9.6
15	13	14	19	19	e10	85	37	26	2640	107	17	11
16	12	14	17	e19	e13	77	38	26	1890	77	17	11
17	12	18	16	e19	e12	72	38	27	1670	61	18	9.9
18	12	19	19	e19	e12	68	36	476	888	58	20	9.7
19	12	13	17	e19	e14	62	35	1430	451	50	19	9.2
20	13	13	17	e19	e22	58	35	1170	273	42	17	8.6
21	12	13	17	e19	e31	53	35	513	199	38	16	10
22	12	13	17	e17	e98	49	35	260	189	39	17	13
23	12	13	17	e16	e173	47	35	4230	229	32	16	14
24	12	13	20	e15	e206	46	39	4960	117	31	17	12
25	12	13	18	e12	e223	45	40	3000	97	30	20	11
26	12	13	16	e9.1	164	45	39	1160	84	28	25	10
27	12	13	19	e8.7	141	74	37	575	75	27	17	9.6
28	12	12	18	e8.2	115	729	35	292	69	30	36	9.8
29	12	12	17	e8.7	107	274	32	191	67	31	39	9.4
30	12	12	17	e9.1	---	155	31	143	63	35	26	9.5
31	12	---	17	e11	---	108	---	164	---	35	21	---
TOTAL	427	530	514	502.8	1493.6	13790	1258	19049	14676	2738	703	318.3
MEAN	13.8	17.7	16.6	16.2	51.5	445	41.9	614	489	88.3	22.7	10.6
MAX	23	40	20	24	223	3250	86	4960	2640	210	41	16
MIN	12	12	12	8.2	9.6	45	31	23	58	27	16	8.2
AC-FT	847	1050	1020	997	2960	27350	2500	37780	29110	5430	1390	631

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	89.1	22.6	18.6	18.0	36.4	240	38.7	322	208	41.0	20.2	88.2
MAX	164	27.5	20.6	19.8	51.5	445	41.9	614	489	88.3	24.9	229
(WY)	2003	2003	2003	2003	2004	2004	2004	2004	2004	2004	2002	2003
MIN	13.8	17.7	16.6	16.2	20.7	35.0	35.5	158	62.3	17.1	12.9	10.6
(WY)	2004	2004	2004	2004	2003	2003	2003	2002	2002	2003	2003	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	20810.0		55999.7			
ANNUAL MEAN	57.0		153		112	
HIGHEST ANNUAL MEAN					153	2004
LOWEST ANNUAL MEAN					71.0	2003
HIGHEST DAILY MEAN	1200	Sep 13	4960	May 24	4960	May 24 2004
LOWEST DAILY MEAN	1.6	Sep 7	8.2	Jan 28	1.6	Sep 7 2003
ANNUAL SEVEN-DAY MINIMUM	3.0	Sep 2	9.1	Sep 7	3.0	Sep 2 2003
MAXIMUM PEAK FLOW			5590	May 23	5590	May 23 2004
MAXIMUM PEAK STAGE			24.58	May 23	24.58	May 23 2004
ANNUAL RUNOFF (AC-FT)	41280		111100		81170	
10 PERCENT EXCEEDS	87		205		179	
50 PERCENT EXCEEDS	20		22		23	
90 PERCENT EXCEEDS	12		11		11	

e Estimated

2004 Water Year

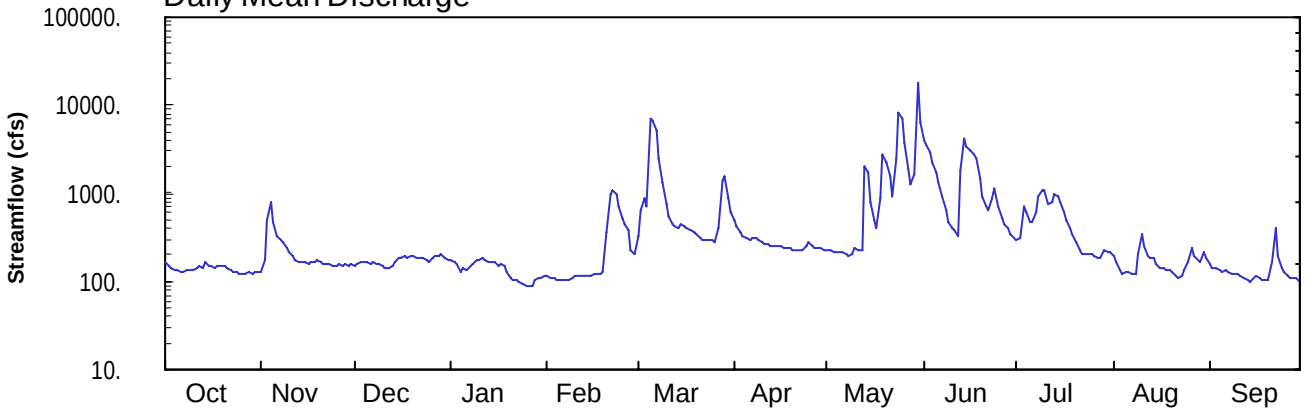
KANSAS RIVER BASIN

06882000 BIG BLUE R AT BARNESTON NEBR

Latitude: 40° 02 ' 40" Longitude: 096° 35 ' 14" Hydrologic Unit Code: 10270205

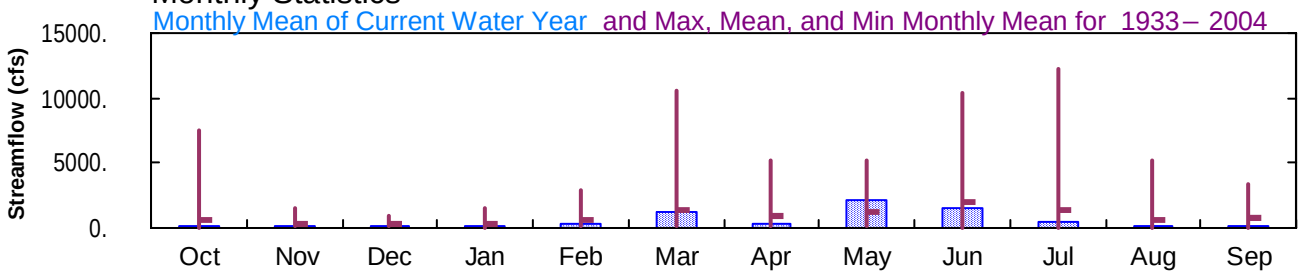
Gage County Datum: 1162.20 feet Drainage Area: 4447. mi^2

Daily Mean Discharge

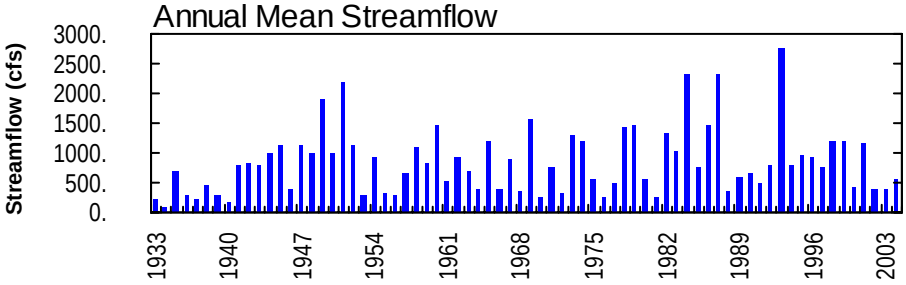


Monthly Statistics

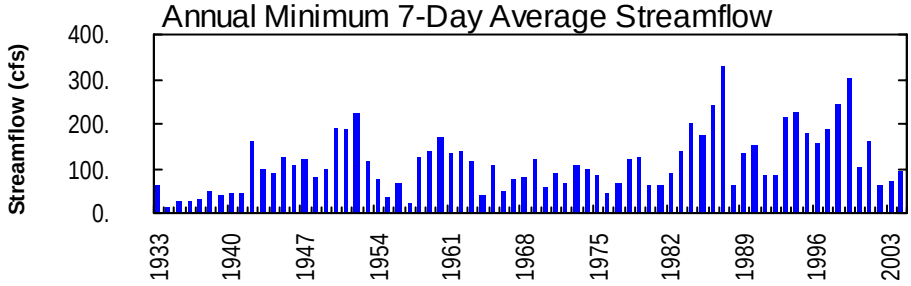
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1933 – 2004



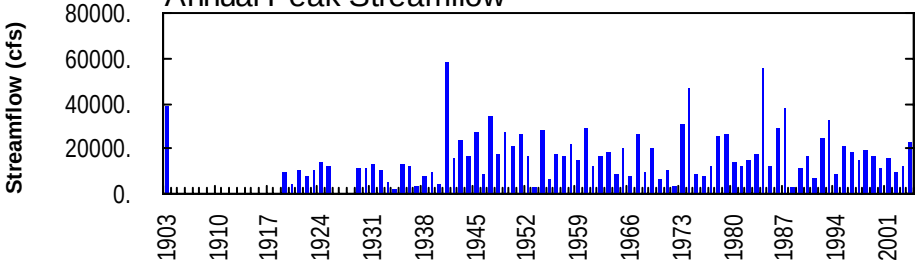
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



NO PHOTOS AVAILABLE FOR THIS SITE

06882000 BIG BLUE RIVER AT BARNESTON, NE

LOCATION—Lat 40°02'40", long 96°35'12", in NE 1/4 NW 1/4 sec.24, T.1 N., R.7 E., Gage County, Hydrologic Unit 10270205, on right bank at right downstream end of bridge on State Highway 8, 0.6 mi southwest of Barneston, 1.3 mi upstream from Plum Creek, and 4.3 mi upstream from Nebraska-Kansas State line.

DRAINAGE AREA—4,447 mi^2, of which about 4,370 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD—May 1932 to current year.

REVISED RECORDS—WSP 896: 1932, 1935. WSP 1919: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,162.2 ft above sea level. Prior to June 9, 1941, water-stage recorder at site 0.3 mi downstream at datum 1.56 ft higher. June 9 to Nov. 17, 1941, non-recording gage and Nov. 18, 1941 to Sept. 30, 1979, water-stage recorder at site 0.7 mi upstream at datum 2.0 ft higher. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor. Low flow regulated by dam at unused power plant 0.7 mi upstream. 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.

06882000 BIG BLUE RIVER AT BARNESTON, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	130	150	171	e115	320	486	225	4050	e300	195	156
2	149	176	159	170	e112	646	415	222	3670	e307	165	e145
3	145	488	170	e158	e108	887	368	218	2870	717	136	140
4	136	809	167	e130	e105	724	335	221	2200	611	120	132
5	133	470	164	e139	e106	7160	312	215	1710	466	129	128
6	131	319	160	e137	e104	6810	300	211	1360	460	127	134
7	131	302	163	e147	e103	5160	304	201	933	606	124	125
8	132	286	e159	e160	e105	2520	307	196	655	928	119	121
9	133	240	e154	e172	e111	1340	293	208	477	1080	208	123
10	132	211	e147	e177	e113	763	283	242	404	1100	336	120
11	143	194	e139	182	e116	554	265	228	383	769	249	115
12	149	179	e140	174	e116	456	259	225	330	789	198	110
13	140	162	e150	170	e116	414	258	2030	1830	970	187	104
14	169	162	e170	167	e117	400	252	1700	4170	911	180	100
15	149	163	183	162	e118	438	250	780	3480	774	158	109
16	148	158	185	152	e120	426	246	496	e3120	623	141	113
17	145	163	197	160	e120	407	239	400	2780	484	139	107
18	149	169	185	e151	e120	380	245	877	2430	399	138	106
19	148	179	194	e128	e131	357	242	2820	1460	340	137	104
20	146	167	194	e110	e367	351	230	2220	945	279	125	103
21	139	156	187	e106	e973	318	224	1580	710	229	113	162
22	136	154	186	e105	e1100	301	222	942	645	207	112	406
23	131	160	183	e97	e973	292	227	2540	893	200	115	194
24	129	151	172	e94	e720	291	254	8250	1150	203	137	139
25	123	148	e170	e88	e524	288	281	7120	702	207	165	125
26	121	154	e180	e88	e451	284	257	3830	524	190	245	115
27	123	151	191	e90	e373	411	236	1930	446	180	192	110
28	125	155	194	e103	e226	1420	239	1260	394	188	174	107
29	123	151	201	e110	e202	1560	235	1670	346	230	168	107
30	130	154	188	e107	---	891	229	17900	309	214	212	101
31	128	---	176	e116	---	620	---	6300	---	211	181	---
TOTAL	4279	6661	5358	4221	8065	37189	8293	67257	45376	15172	5125	3961
MEAN	138	222	173	136	278	1200	276	2170	1513	489	165	132
MAX	169	809	201	182	1100	7160	486	17900	4170	1100	336	406
MIN	121	130	139	88	103	284	222	196	309	180	112	100
AC-FT	8490	13210	10630	8370	16000	73760	16450	133400	90000	30090	10170	7860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2004, BY WATER YEAR (WY)

MEAN	538	309	239	286	634	1351	847	1298	2046	1317	687	701
MAX	7451	1526	851	1596	2876	10560	5280	5207	10460	12270	5227	3420
(WY)	1974	1999	1998	1973	1984	1979	1984	1995	1951	1993	1954	1989
MIN	61.5	77.5	87.4	67.6	116	137	132	96.0	69.3	30.7	21.1	50.6
(WY)	1941	1937	1977	1937	1940	1968	1934	1934	1934	1934	1934	1939

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1933 - 2004	
ANNUAL TOTAL	136384		210957			
ANNUAL MEAN	374		576		855	
HIGHEST ANNUAL MEAN					2781	1993
LOWEST ANNUAL MEAN					115	1934
HIGHEST DAILY MEAN	7510	Jun 13	17900	May 30	50000	Jun 9 1941
LOWEST DAILY MEAN	62	Jul 17	88	Jan 25	1.0	Nov 30 1945
ANNUAL SEVEN-DAY MINIMUM	72	Jul 15	95	Jan 22	15	Aug 3 1934
MAXIMUM PEAK FLOW			22700	May 30	57700	Jun 9 1941
MAXIMUM PEAK STAGE			22.80	May 30	34.30	Jun 9 1941
ANNUAL RUNOFF (AC-FT)	270500		418400		619200	
10 PERCENT EXCEEDS	601		1100		1760	
50 PERCENT EXCEEDS	194		193		277	
90 PERCENT EXCEEDS	111		115		105	

e Estimated

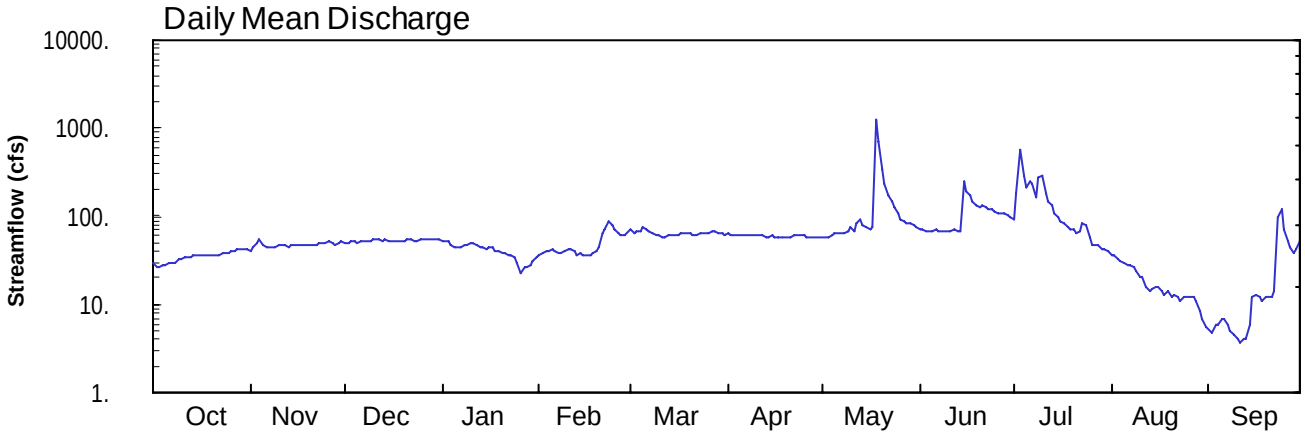
2004 Water Year

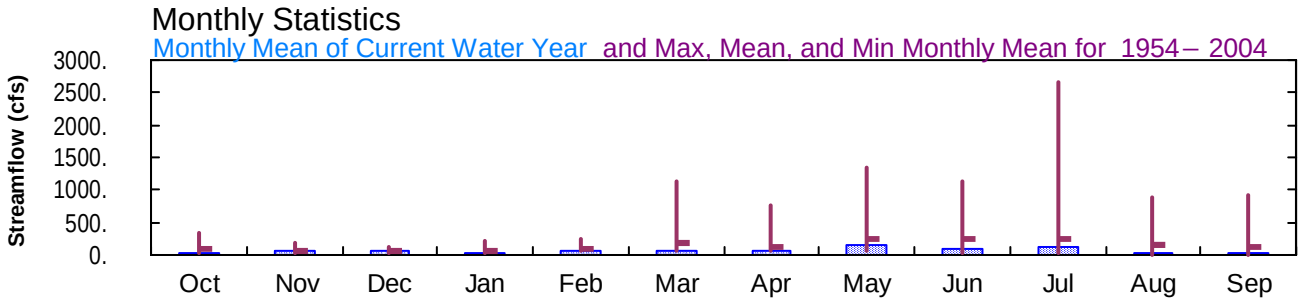
KANSAS RIVER BASIN

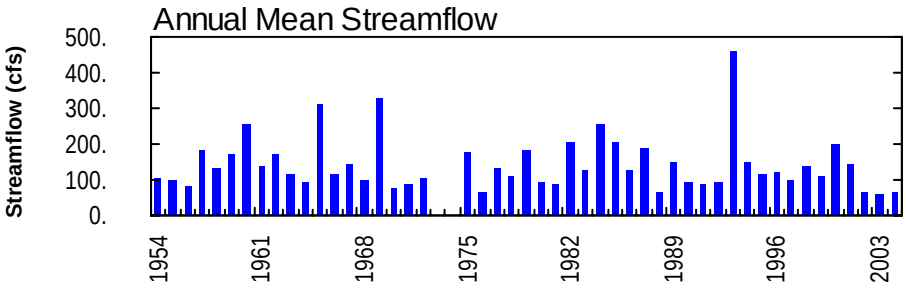
06883000 LITTLE BLUE RIVER NEAR DEWEESE, NE

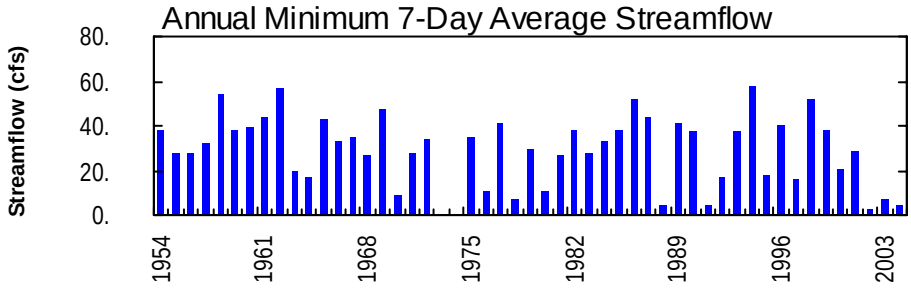
Latitude: 40° 19 ' 56" Longitude: 098° 04 ' 01" Hydrologic Unit Code: 10270206

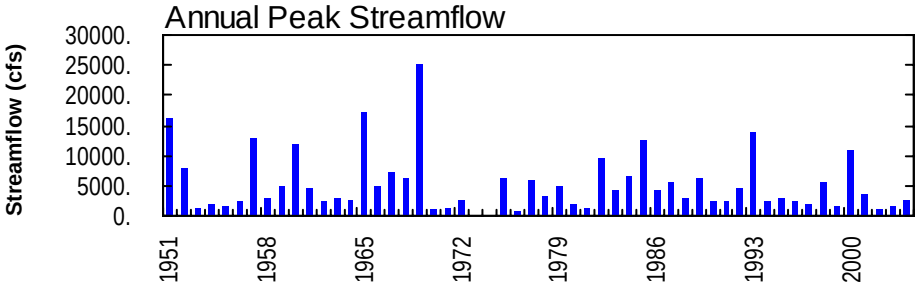
Nuckolls County Datum: 1632.67 feet Drainage Area: 984. mi^2











NO PHOTOS AVAILABLE FOR THIS SITE

06883000 LITTLE BLUE RIVER NEAR DEWEESE, NE

LOCATION—Lat 40°19'58", long 98°04'00", in SW 1/4 NW 1/4 sec.12, T.4 N., R.7 W., Nuckolls County, Hydrologic Unit 10270206, on right bank 10 ft downstream from bridge on State Highway 14, 1 mi upstream from Walnut Creek, 3.2 mi southeast of Deweese, 6 mi northwest of Angus, and at mile 122.57.

DRAINAGE AREA—984 mi^2.

PERIOD OF RECORD—February 1953 to September 1972, October 1974 to current year.

REVISED RECORDS—WDR NE-97-1: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,632.67 ft above sea level. Datum lowered to 1,630.67 ft above sea level on Aug. 5, 2002. Prior to May 16, 1957, non-recording gage and Oct. 1, 1974 to Mar. 24, 1981, recording gage at present site and at datum 2.00 ft higher; May 16, 1957 to Sept. 30, 1972 and Mar. 25, 1981 to Mar. 24, 1982 at site 1,500 ft upstream from bridge at datum 2.00 ft higher. Data collection platform at station.

REMARKS—Records good except those for winter period and estimated daily discharges, which are poor. Natural flow affected by irrigation development above station.

06883000 LITTLE BLUE RIVER NEAR DEWEESE, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	41	49	53	e37	70	63	58	73	91	37	5.3
2	27	44	50	53	e38	65	62	58	70	183	36	4.8
3	27	49	51	52	e40	67	62	59	69	561	32	6.0
4	28	55	51	e46	e40	67	61	61	68	284	31	6.0
5	28	47	50	e44	e42	75	61	63	69	212	29	6.9
6	29	45	53	e44	e40	73	62	64	70	252	28	7.0
7	30	45	52	e44	e38	68	62	63	69	231	28	5.9
8	30	e45	52	e46	e39	65	62	63	67	165	27	5.0
9	32	e45	53	e48	e41	62	61	68	67	273	24	4.6
10	32	e46	e55	e49	e43	61	61	74	67	293	20	4.0
11	35	47	e55	e49	e42	59	60	67	69	184	20	3.6
12	34	47	e54	e48	e41	58	61	83	71	151	16	4.0
13	35	45	53	e45	e37	60	59	91	69	131	14	4.0
14	37	46	54	45	e38	60	59	80	67	109	15	6.0
15	36	47	53	43	e37	62	60	74	244	97	16	12
16	36	47	52	44	e36	61	59	73	194	89	16	13
17	36	48	52	44	e37	63	58	75	172	82	14	12
18	36	48	52	40	e38	63	58	1250	146	75	13	11
19	37	47	52	e40	41	63	58	698	135	72	14	12
20	37	48	53	e38	44	63	58	336	128	70	12	12
21	37	48	54	38	63	60	59	231	131	64	13	12
22	37	48	54	36	70	62	60	171	128	66	12	14
23	38	50	53	36	86	64	60	146	119	82	11	98
24	39	e50	53	35	79	65	61	124	117	78	12	119
25	39	50	54	e30	72	64	61	107	113	57	12	70
26	40	51	55	e23	65	65	58	92	110	48	12	52
27	41	50	56	e26	62	68	e57	87	110	48	12	45
28	42	48	55	e26	61	68	e58	83	106	47	11	39
29	42	50	54	e28	63	64	e59	82	103	43	8.5	43
30	43	51	55	e31	---	63	59	79	96	43	6.9	51
31	42	---	54	e34	---	62	---	76	---	40	5.7	---
TOTAL	1091	1428	1643	1258	1410	1990	1799	4736	3117	4221	558.1	688.1
MEAN	35.2	47.6	53.0	40.6	48.6	64.2	60.0	153	104	136	18.0	22.9
MAX	43	55	56	53	86	75	63	1250	244	561	37	119
MIN	27	41	49	23	36	58	57	58	67	40	5.7	3.6
AC-FT	2160	2830	3260	2500	2800	3950	3570	9390	6180	8370	1110	1360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

MEAN	79.9	68.9	64.5	67.8	92.4	190	126	245	254	259	142	123
MAX	347	193	115	207	245	1140	762	1348	1145	2655	883	911
(WY)	1966	1997	1998	1984	1982	1993	1984	1965	1957	1993	1985	1969
MIN	29.1	39.3	41.7	40.6	46.7	56.5	59.3	50.5	36.0	15.6	14.0	10.7
(WY)	1992	1992	1981	2004	1981	1981	1972	1992	1988	1970	1991	1991

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004	
ANNUAL TOTAL	22513.4		23939.2			
ANNUAL MEAN	61.7		65.4		143	
HIGHEST ANNUAL MEAN					464	1993
LOWEST ANNUAL MEAN					63.6	2003
HIGHEST DAILY MEAN	777	May 25	1250	May 18	14300	Sep 1 1969
LOWEST DAILY MEAN	5.3	Sep 8	3.6	Sep 11	0.00	Jan 1 1997
ANNUAL SEVEN-DAY MINIMUM	6.7	Sep 4	4.4	Sep 7	2.8	Aug 12 2002
MAXIMUM PEAK FLOW			2730	May 18	25100	Aug 31 1969
MAXIMUM PEAK STAGE			8.52	May 18	*18.57	Aug 31 1969
ANNUAL RUNOFF (AC-FT)	44660		47480		103700	
10 PERCENT EXCEEDS	96		104		185	
50 PERCENT EXCEEDS	53		52		70	
90 PERCENT EXCEEDS	26		14		42	

e Estimated
* Datum then in use

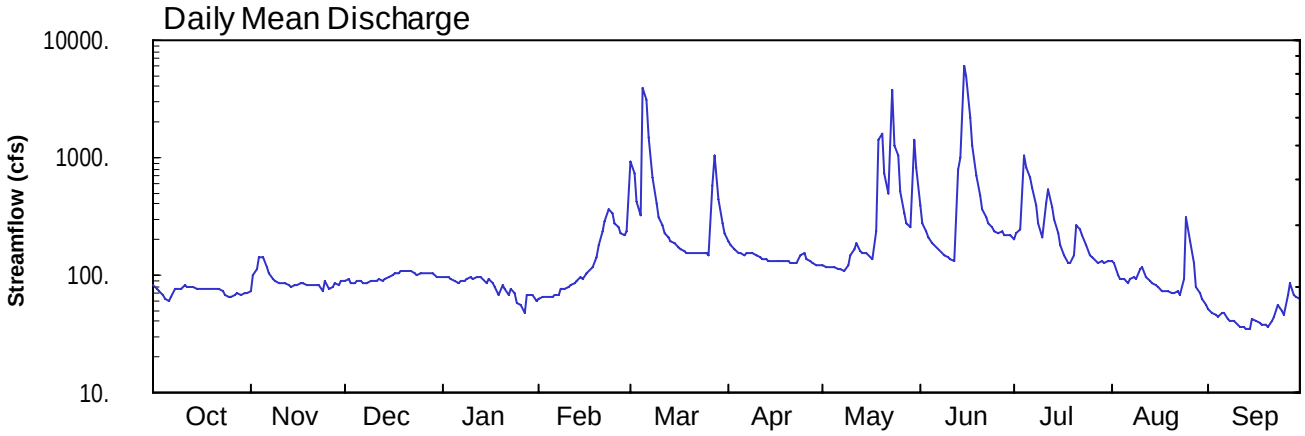
2004 Water Year

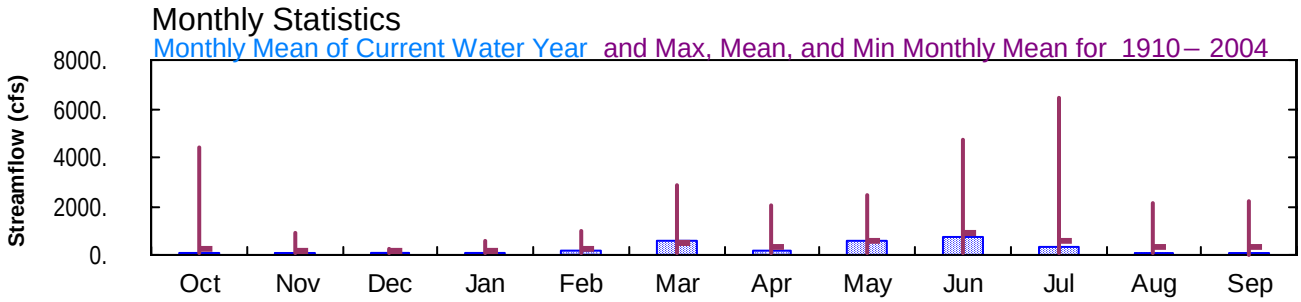
KANSAS RIVER BASIN

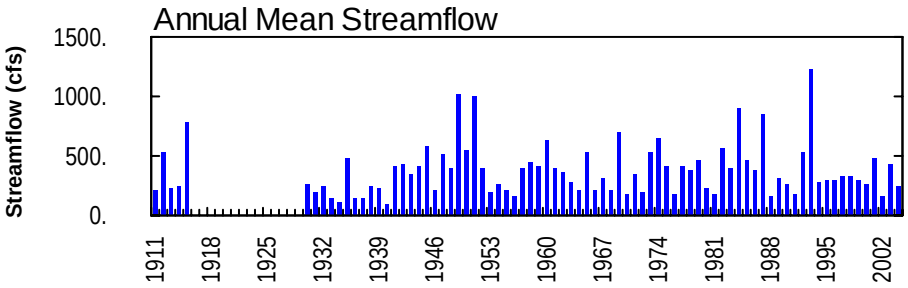
06883995 LITTLE BLUE RIVER AT FAIRBURY, NEBR.

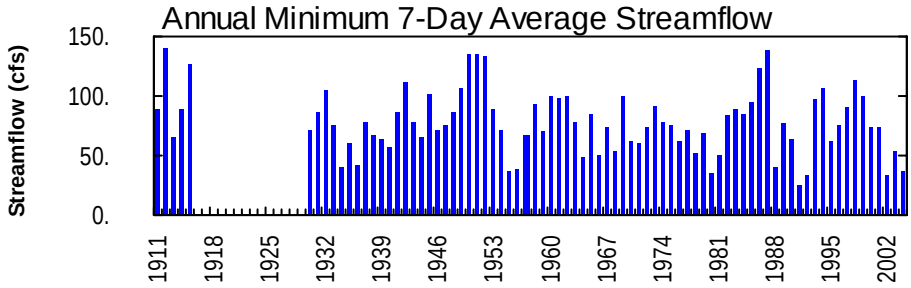
Latitude: 40° 08 ' 47" Longitude: 097° 11 ' 58" Hydrologic Unit Code: 10270207

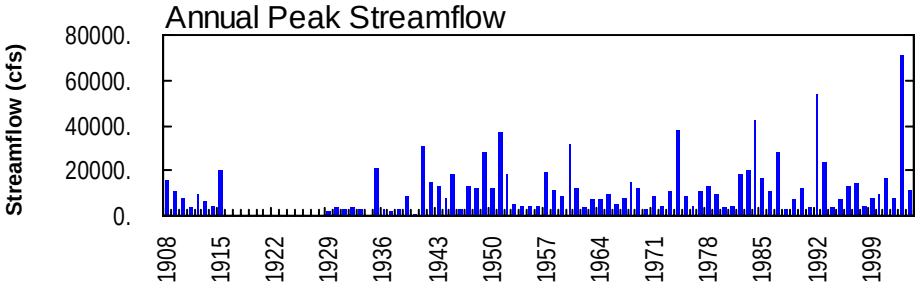
Jefferson County Datum: 1378 feet Drainage Area: 2350. mi²











NO PHOTOS AVAILABLE FOR THIS SITE

06883995 LITTLE BLUE RIVER AT FAIRBURY, NE

LOCATION—Lat 40°08'47", long 97°11'58", in NE1/4 NE1/4 sec.26, T.2 N., R.2 E., Jefferson County, Hydrologic Unit 10270207, on left downstream shoulder of roadway on Highway US 136, 0.5 mile west of Fairbury.

DRAINAGE AREA—2,350 mi^2.

PERIOD OF RECORD—May 1908 to September 1915, October 1928 to September 1956 published as “near Endicott” (06884000), October 1956 to July 2003 published as “near Fairbury” (06884000), August 2003 to current year at present site (06883995). Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS—WSP 1086: 1941(M). WSP 1390: 1908(M), 1912, 1915, 1935, 1939, 1945(M). WSP 1510: 1947 (calendar year figures only). WSP 1919: Drainage area.

GAGE—Water-stage recorder. Datum of gage is 1,378 ft above sea level from topographic map. May 23, 1908 to Sept. 30, 1915, non-recording gage at Highway 15 site at different datum. Apr. 26, 1929 to Sept. 24, 1957 non-recording gage or water-stage recorder at site 3.5 mi downstream at various datums. Sept. 25, 1957 to Aug. 20, 1991 water-stage recorder at Highway 15 at datum 5.0 ft higher, through July 31, 2003, when gage was moved. Data collection platform at station.

REMARKS—Records good except for winter period and estimated daily discharges, which are poor. Natural flow of stream affected by irrigation development above station.

06883995 LITTLE BLUE RIVER AT FAIRBURY, NE—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	72	90	e95	e62	912	194	121	385	201	131	51
2	76	101	92	e96	e66	724	177	119	279	225	124	48
3	72	114	87	e95	e66	423	164	117	232	243	101	45
4	67	141	87	e93	e64	328	155	117	206	1050	94	44
5	63	142	89	e90	e66	3880	151	116	189	832	91	47
6	61	116	89	e86	e68	3070	146	114	176	676	86	47
7	66	103	85	e90	e69	1480	151	112	165	e552	91	43
8	75	93	86	e90	e75	665	155	110	154	e399	98	41
9	75	88	e88	e93	e75	407	152	120	148	e277	93	40
10	75	86	e90	e96	e80	316	149	148	144	e211	111	38
11	81	86	e90	e94	e83	261	140	167	136	e413	115	36
12	79	84	e92	e97	e86	227	136	185	133	e527	96	36
13	79	81	e90	e95	e88	208	135	157	790	e384	89	35
14	80	80	e91	e94	e98	192	133	151	981	e294	85	35
15	77	82	e96	e87	e94	184	132	153	6120	e224	82	43
16	76	81	e100	e93	e103	173	130	141	4930	e178	79	41
17	76	84	e103	e86	e111	167	129	136	2180	e148	73	39
18	77	84	e104	e79	e116	161	132	233	1260	e128	73	38
19	77	82	e108	e69	e140	156	131	1440	700	e125	72	37
20	77	82	e108	e81	e178	152	131	1610	468	e149	70	36
21	75	83	e108	e75	e237	151	127	733	368	e261	71	40
22	75	82	107	e67	e283	153	125	501	314	e250	74	44
23	73	83	106	e77	e363	154	127	3770	281	e220	68	55
24	69	74	100	e71	e331	152	146	1250	257	e178	93	49
25	65	90	106	e57	e280	151	152	1040	239	e148	310	46
26	65	76	104	e55	e251	150	139	516	226	e142	194	67
27	67	80	106	e48	227	578	132	332	233	e133	124	84
28	70	86	106	e68	219	1050	126	271	222	e124	79	69
29	69	83	102	e69	235	435	123	251	221	131	70	66
30	70	89	98	e68	---	280	123	1410	221	128	62	63
31	71	---	e97	e60	---	223	---	820	---	130	56	---
TOTAL	2259	2708	3005	2514	4214	17563	4243	16461	22358	9081	3055	1403
MEAN	72.9	90.3	96.9	81.1	145	567	141	531	745	293	98.5	46.8
MAX	81	142	108	97	363	3880	194	3770	6120	1050	310	84
MIN	61	72	85	48	62	150	123	110	133	124	56	35
AC-FT	4480	5370	5960	4990	8360	34840	8420	32650	44350	18010	6060	2780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2004, BY WATER YEAR (WY)

MEAN	270	174	140	154	262	497	323	564	879	584	344	349
MAX	4406	886	282	594	1004	2821	2019	2419	4735	6413	2142	2189
(WY)	1974	1997	1914	1973	1948	1987	1987	1945	1951	1993	1985	1973
MIN	44.3	68.7	74.7	75.0	93.3	103	99.8	96.6	78.1	55.4	48.3	28.7
(WY)	1992	1992	1981	1930	1981	1981	1981	1992	1934	1934	1936	1991

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1910 - 2004	
ANNUAL TOTAL	145392		88864			
ANNUAL MEAN	398		243		382	
HIGHEST ANNUAL MEAN					1239	1993
LOWEST ANNUAL MEAN					107	1940
HIGHEST DAILY MEAN	28400	Jun 24	6120	Jun 15	36400	Jul 26 1992
LOWEST DAILY MEAN	51	Aug 30	35	Sep 13	14	Nov 22 1929
ANNUAL SEVEN-DAY MINIMUM	53	Sep 2	37	Sep 8	24	Sep 14 1991
MAXIMUM PEAK FLOW			11000	Jun 15	*71200	Jun 24 2003
MAXIMUM PEAK STAGE			16.87	Jun 15	**24.33	Jul 25 1992
ANNUAL RUNOFF (AC-FT)	288400		176300		276600	
10 PERCENT EXCEEDS	419		389		579	
50 PERCENT EXCEEDS	107		106		159	
90 PERCENT EXCEEDS	74		65		90	

e Estimated
* Stage 23.17 ft
** Discharge 54000 ft^3/s, site and datum then in use

2004 Water Year

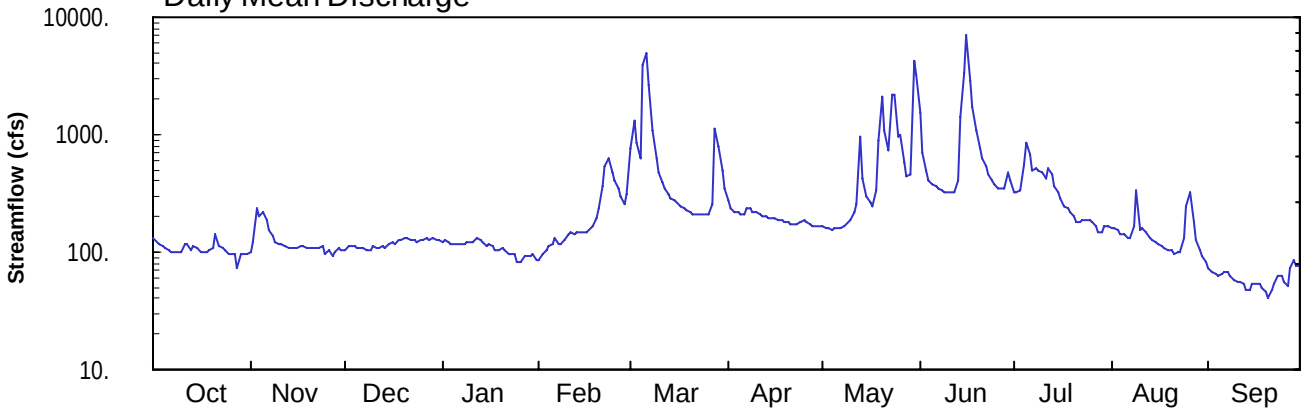
KANSAS RIVER BASIN

06884025 LITTLE BLUE R AT HOLLENBERG, KS

Latitude: 39° 58 ' 49" Longitude: 097° 00 ' 16" Hydrologic Unit Code: 10270207

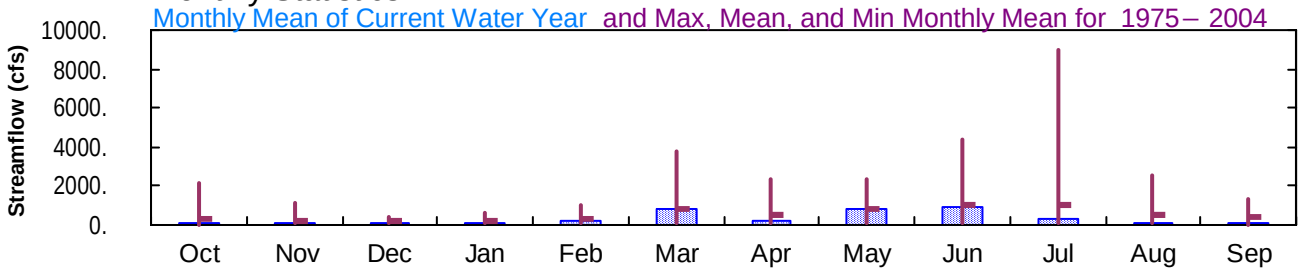
Washington County Datum: 1216.10 feet Drainage Area: 2752. mi^2

Daily Mean Discharge

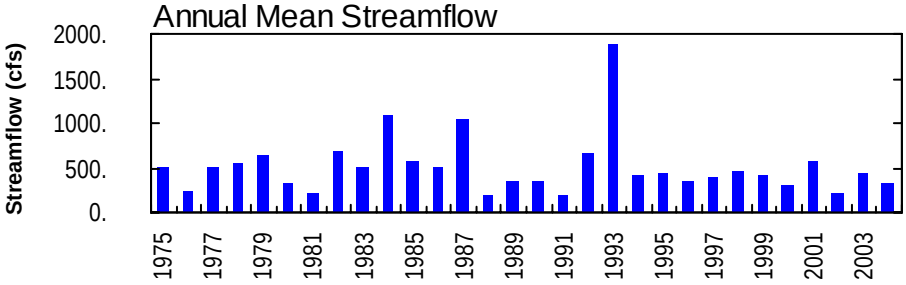


Monthly Statistics

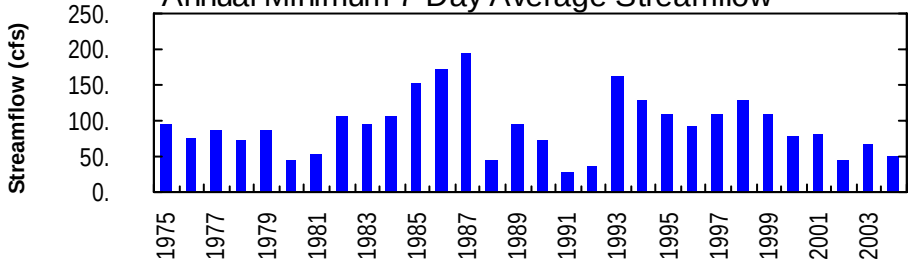
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1975 – 2004



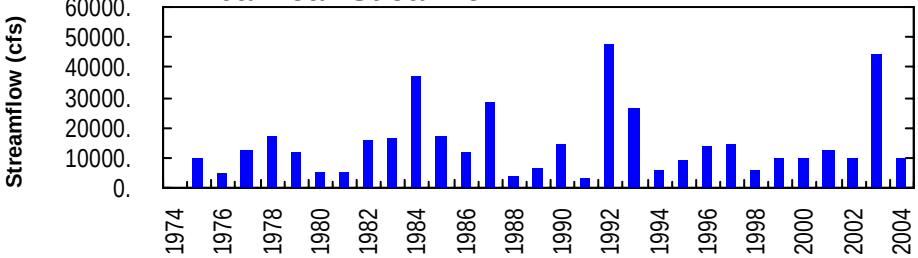
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



NO PHOTOS AVAILABLE FOR THIS SITE

06884025 LITTLE BLUE RIVER AT HOLLENBERG, KS

LOCATION—Lat 39°58'48", long 97°00'16", NE 1/4 SW 1/4 sec.8, T.1 S., R.4 E., Washington County, Hydrologic Unit 10270207, on right bank 2 ft downstream from bridge on county road, 0.6 mi west of Hollenberg, 1.75 mi downstream from Nebraska-Kansas State line, and at mile 43.1.

DRAINAGE AREA—2,752 mi^2.

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 above sea level. Data collection platform at station.

REMARKS—Records good except for estimated daily discharges, which are poor. Discharge measurements made prior to 1974 water year are published in table of miscellaneous sites in WDR NE-73.

06884025 LITTLE BLUE RIVER AT HOLLENBERG, KS—Continued

Discharge, cubic feet per second
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	100	106	122	e86	773	276	164	1560	328	161	73
2	122	123	113	126	e98	1340	239	161	700	328	160	68
3	117	237	114	121	e104	852	218	157	494	333	151	64
4	112	204	111	e117	e113	621	216	156	401	547	140	63
5	107	216	107	e117	e115	3930	213	158	370	872	140	66
6	104	188	107	e115	e130	4940	210	157	362	666	134	68
7	101	155	108	e118	e118	2660	234	161	346	501	129	68
8	101	136	104	e117	e115	1090	235	166	335	516	163	63
9	101	123	e105	e120	e127	627	222	177	324	505	331	58
10	101	117	e113	e123	e140	472	218	190	325	474	153	55
11	118	116	e109	e122	e147	390	210	218	321	428	159	55
12	117	111	e107	e129	e142	345	202	251	322	521	146	54
13	106	108	e114	e124	e147	316	201	953	402	452	134	48
14	114	108	e110	e122	e149	290	197	424	1410	366	127	47
15	108	110	e116	e113	e145	276	195	295	3300	321	121	53
16	100	110	e121	e119	e147	260	192	261	6990	285	118	54
17	100	112	e119	e114	e159	248	188	241	2890	250	113	53
18	101	113	e127	e106	e169	236	186	341	1700	234	107	49
19	105	110	e128	e102	e193	227	183	889	1090	219	104	45
20	107	109	e131	e107	e239	222	179	2070	761	199	102	40
21	140	108	e130	e105	e369	213	172	1100	631	182	98	47
22	112	109	128	e96	e546	206	170	728	526	178	101	53
23	108	107	126	e95	e634	207	171	2210	456	187	101	63
24	102	112	e123	e95	e471	207	179	2200	410	190	134	62
25	96	98	128	e82	e405	208	189	965	370	186	248	56
26	95	104	127	e82	e351	206	183	996	349	181	328	52
27	96	92	129	e91	e298	254	172	587	354	166	177	74
28	72	101	128	e91	258	1140	169	449	342	150	124	87
29	96	110	129	e94	305	780	164	464	483	149	104	77
30	98	104	125	e98	---	496	165	4270	414	164	92	75
31	98	---	124	e86	---	345	---	3220	---	164	83	---
TOTAL	3285	3751	3667	3369	6420	24377	5948	24779	28738	10242	4483	1790
MEAN	106	125	118	109	221	786	198	799	958	330	145	59.7
MAX	140	237	131	129	634	4940	276	4270	6990	872	331	87
MIN	72	92	104	82	86	206	164	156	321	149	83	40
AC-FT	6520	7440	7270	6680	12730	48350	11800	49150	57000	20320	8890	3550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2004, BY WATER YEAR (WY)

MEAN	304	240	179	174	320	786	520	804	983	996	496	372
MAX	2163	1113	424	576	1059	3816	2379	2302	4373	9014	2572	1320
(WY)	1987	1997	1993	1984	1993	1993	1987	1995	1984	1993	1985	1977
MIN	45.3	81.1	96.7	98.5	115	118	123	108	151	83.8	72.5	32.0
(WY)	1992	1992	2001	1977	1992	1981	2003	1992	1981	2002	1991	1991

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1975 - 2004	
ANNUAL TOTAL	151819		120849			
ANNUAL MEAN	416		330		516	
HIGHEST ANNUAL MEAN					1891	1993
LOWEST ANNUAL MEAN					195	1991
HIGHEST DAILY MEAN	29100	Jun 24	6990	Jun 16	39300	Jul 26 1992
LOWEST DAILY MEAN	56	Sep 8	40	Sep 20	26	Oct 1 1991
ANNUAL SEVEN-DAY MINIMUM	66	Sep 3	49	Sep 14	27	Sep 27 1991
MAXIMUM PEAK FLOW			10200	Jun 16	47800	Jul 26 1992
MAXIMUM PEAK STAGE			11.64	Jun 16	21.21	Jul 26 1992
ANNUAL RUNOFF (AC-FT)	301100		239700		373800	
10 PERCENT EXCEEDS	435		559		849	
50 PERCENT EXCEEDS	129		147		200	
90 PERCENT EXCEEDS	101		90		105	

e Estimated

Discharge at Partial-Record Stations and Miscellaneous Sites

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 2004

[mi^2, square mile; ft, foot; ft^3/s, cubic feet per second]

Station number	Station name	Location	Drainage area (mi^2)	Period of record	Date	Annual maximum	
						Gage height (ft)	Dis-charge (ft^3/s)
Big Nemaha River Basin							
06814500	North Fork Big Nemaha River, at Humboldt, NE	Lat 40° 09' 25", long 095° 56' 40", in NW$^1/_4$ NE$^1/_4$ sec. 10, T. 2N., R. 13 E., Richardson County, on right bank on bridge on State Highway 105 at south edge of Humboldt	548	*1952-96 1997-2004	02-20-04	8.66	2,670
Kansas River Basin							
06838200	Coon Creek at Indianola, NE	Lat 40° 14' 03", long 100° 25' 37", in NW$^1/_4$ NE$^1/_4$ 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	69	1961-2004	07-10-04	6.15	[e]300
06838550	Dry Creek at Bartley, NE	Lat 40° 15' 02", long 100° 19' 02", in SW$^1/_4$ SE$^1/_4$ 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	42	1961-2004	09-15-04	11.29	[e] 70
06850000	Turkey Creek at Naponee, NE	Lat 40° 04' 34", long 099° 08' 17", in SW$^1/_4$ SW$^1/_4$ sec.4, T.1 N., R.16 W., Franklin County, on downstream side of county bridge at east side of Naponee	129	*1948-53 [a]1954-61 [b]1962-77 [a]1978-89 1991-2004	05-18-04	2.12	[c] 48
06881450	Indian Creek at Beatrice, NE	Lat 40° 17' 08", long 096° 44' 47", in SE$^1/_4$ NE$^1/_4$ sec. 28, T.4 N., R.6 E., Gage County, at bridge on U.S. Higway 77 at north edge of Beatrice	74.7	1960-89, 1991-2004	05-23-04	13.56	2,310

[*] Operated as a continuous-record gaging station.
[a] Discharge measurements published in table for miscellaneous sites.
[b] Discharge measurements published in table for low flow partial record sites.
[c] Data provided by Nebraska Department of Natural Resources.
[e] Estimate.

Measurements of streamflow at points other than gaging stations are given in the following table. Some measurements were made during periods of base flow when streamflow is primarily from ground-water storage and may be correlated with the simultaneous discharge of a nearby stream where continuous records are available to give a picture of the low-flow potentiality of the stream.

Discharge measurements made at miscellaneous sites during water year 2004

[mi^2, square miles; ft^3/s, cubic feet per second; lat, latitude; long, longitude; sec., section; mi, mile; Nebr., Nebraska

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Dis-charge (ft^3/s)
Platte River Basin						
Plum Creek (06767450)	Platte River	Lat 40°40'11", long 99°52'10" in NW $^1/_4$ NW $^1/_4$ sec. 13, T.8N., R.22W., Gosper County, downstream of bridge 2.0 mi west of state highway 283, and 1.0 mi southwest of Johnson Lake.	158		04-08-04	3.39
					05-04-04	3.55
					05-18-04	3.31
					06-01-04	2.27
					06-15-04	1.86
					06-30-04	2.36
					07-12-04	2.34
					07-27-04	2.03
					08-09-04	1.65
					08-23-04	1.47
					09-07-04	1.21
					09-21-04	1.70
Plum Creek (06767470)	Platte River	Lat 40°37'21", long 99°47'40" in SE $^1/_4$ NE$^1/_4$ sec. 34, T.8N., R.22W., Gosper County, upstream of county road bridge 3.7 mi northeast of Elwood.	183		04-07-04	11.0
					05-04-04	12.7
					05-18-04	12.7
					06-01-04	10.3
					06-15-04	9.09
					06-25-04	9.88
					07-12-04	14.9
					07-27-04	9.68
					08-09-04	7.94
					08-23-04	8.31
					09-07-04	5.54
					09-21-04	6.75
Plum Creek (06767590)	Platte River	Lat 40°36'17", long 99°44'17", in NW$^1/_4$ SW$^1/_4$ sec. 5, T.7N., R.21W., Gosper County, downstream of county bridge, 2. mi north of Smithfield	193		04-08-04	11.5
					05-04-04	14.1
					05-18-04	12.6
					06-01-04	10.1
					06-15-04	9.61
					06-29-04	10.8
					07-12-04	13.5
					07-27-04	11.0
					08-09-04	8.83
					08-23-04	8.15
					09-07-04	6.02
					09-21-04	6.03

Discharge measurements made at miscellaneous sites during water year 2004--Continued

[mi^2, square miles; ft^3/s, cubic feet per second; lat, latitude; long, longitude; sec., section; mi, mile; Nebr., Nebraska

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Dis-charge (ft^3/s)
Plum Creek (06767510)	Platte River	Lat 40°40'05", long 99°40'51", in NE 1/4 NE 1/4 sec. 15, T.8N., R.21W., Gosper County, upstream of county bridge 2.0 mi west of Gosper County line.	217		04-09-04	14.1
					05-05-04	14.1
					05-18-04	13.6
					06-01-04	11.7
					06-15-04	11.3
					06-29-04	12.8
					07-12-04	16.1
					07-27-04	11.0
					08-09-04	10.3
					08-23-04	10.7
					09-07-04	6.68
					09-21-04	6.00
Plum Creek (06767520)	Platte River	Lat 40°41'02", long 99°39'11", in NW 1/4 NE 1/4 sec. 12, T.8N., R.21W., Gosper County, downstream of county bridge 0.5 mi west of Gosper County line, and 0.3 mi upstream of confluence with Platte River.	219		04-09-04	15.2
					05-05-04	16.4
					05-18-04	14.3
					06-01-04	11.5
					06-15-04	9.41
					06-29-04	12.9
					07-12-04	17.2
					07-27-04	11.4
					08-09-04	9.71
					08-23-04	11.0
					09-07-04	11.5
					09-21-04	11.7
Salt Creek (06803495)	Platte River	Lat 40°50'20", long 96°41'30", in SW 1/4 NE 1/4 sec. 13, T.10N., R.6E., Lancaster County, 0.3 mi downstream of confluence of Oak Creek at Lincoln Wastewater Treatment Facility.	[a]680		06-09-04	113
					07-19-04	77.3
					07-20-04	62.7
					07-20-04	60.2
					08-02-04	40.0
					09-13-04	29.4
Republican River (06853200)	Kansas River	Lat 40o01'01", long 98o05'15", in SE 1/4 SE 1/4 sec. 27, T.1N., R7W., Nuckolls County, on State Highway 8 bridge 0.5 mi west of Superior	22,300	1961-65*	05-19-04	266
				1967*	05-19-04	459
				1971-75**	05-19-04	566
				1977**		
				2003		

a Approximately.
* Measured at site 2.0 mi upstream.
** Measured at site 1.0 mi upstream.

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GROUND-WATER DATA

BY COUNTY

ANTELOPE COUNTY

415559098005201 Local number 23N 6W 28DC1 Elgin

LOCATION—Lat 41º55'59", long 98º00'52", SW ¼ SE ¼ sec. 28, T.23N., R.6W., Hydrologic Unit 10220001, 4 mi. south on Highway 14 from intersection of Highway 70 in Elgin, then 3.5 mi. east on county road.

AQUIFER—Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS—Drilled observation well, diameter 6 in., depth 225 ft, screened 205 to 225 ft.

DATUM—Altitude of land-surface datum is 1,922.00 ft. Measuring point: Top of casing 1.00 ft. above land-surface datum.

PERIOD OF RECORD—November 1968 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 99.44 ft. below land-surface datum, Nov. 8, 1968; lowest, 118.29 ft. below land-surface datum, Aug. 27, 1991.

STATION NUMBER 415559098005201

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106.82	105.78	105.12	104.35	103.87	103.58	103.13	103.44	102.89	103.05	112.03	114.38
2	106.73	105.57	105.00	104.33	103.90	103.68	103.23	104.12	103.05	103.05	112.31	114.56
3	106.53	105.55	104.84	104.39	103.90	103.66	103.27	104.76	103.13	103.05	112.89	114.74
4	106.50	105.50	104.88	104.44	103.88	103.51	103.19	106.08	103.59	103.25	112.74	113.76
5	106.46	105.56	104.94	104.49	103.83	103.42	103.05	106.08	103.19	103.13	112.28	112.90
6	106.43	105.55	104.91	104.46	103.85	103.54	103.09	106.08	102.83	103.14	112.14	111.70
7	106.38	105.52	104.60	104.33	103.89	103.64	103.06	107.83	102.73	103.17	111.17	113.44
8	106.33	105.52	104.70	104.31	103.82	103.57	103.12	107.97	102.80	102.98	113.73	114.34
9	106.31	105.48	104.75	104.32	103.81	103.55	103.10	107.81	102.81	102.53	113.82	114.06
10	106.26	105.27	104.73	104.30	103.81	103.44	103.19	105.59	102.82	102.53	113.42	113.16
11	106.29	105.18	104.71	104.18	103.88	103.50	103.10	104.49	102.72	102.52	112.44	111.84
12	106.31	105.43	104.70	104.23	103.89	103.47	103.10	103.86	102.77	102.55	111.62	111.74
13	106.32	105.44	104.65	104.25	103.73	103.40	103.08	103.83	102.73	102.93	111.62	111.24
14	106.15	105.21	104.54	104.14	103.76	103.45	102.98	103.77	102.75	103.10	111.63	109.95
15	106.10	105.13	104.58	104.13	103.76	103.36	102.90	103.63	102.74	102.64	110.89	108.76
16	106.12	105.16	104.71	104.04	103.75	103.35	102.99	103.52	102.79	102.51	112.60	108.42
17	106.11	105.07	104.65	104.10	103.75	103.21	103.00	103.35	102.79	102.51	113.91	107.97
18	105.96	105.11	104.65	104.18	103.66	103.38	102.92	103.37	102.83	103.31	114.26	107.73
19	105.96	105.14	104.65	104.16	103.48	103.33	103.16	103.29	102.82	104.99	114.17	107.98
20	105.93	105.13	104.55	104.06	103.65	103.56	103.01	103.22	102.69	104.52	111.30	107.41
21	105.93	105.13	104.48	104.08	103.67	103.57	102.92	103.19	102.58	104.45	111.24	107.25
22	105.86	105.06	104.53	104.12	103.63	103.36	103.07	103.06	102.59	103.00	111.51	107.21
23	106.39	105.08	104.52	103.95	103.70	103.15	103.17	102.99	102.65	103.37	112.43	106.93
24	106.52	105.08	104.49	103.98	103.69	103.12	103.17	103.01	102.91	104.51	114.63	106.94
25	106.32	104.89	104.39	103.87	103.65	103.18	103.00	103.06	102.90	104.67	115.11	106.89
26	105.96	104.98	104.36	104.00	103.56	103.27	103.05	103.02	102.71	105.87	111.94	106.79
27	105.67	105.13	104.25	104.01	103.50	103.15	102.98	102.90	102.68	107.14	109.76	106.65
28	105.56	105.13	104.37	104.04	103.49	103.24	102.71	102.91	102.71	108.24	109.53	106.71
29	105.55	104.91	104.37	103.97	103.45	103.28	102.97	102.84	102.75	108.98	109.56	106.56
30	105.66	105.11	104.38	103.96	---	103.30	102.97	102.79	102.88	110.05	110.68	106.37
31	105.78	---	104.48	103.82	---	103.23	---	102.79	---	110.70	114.32	---
MEAN	106.17	105.26	104.63	104.16	103.73	103.40	103.06	104.15	102.83	104.27	112.31	109.95
MAX	106.82	105.78	105.12	104.49	103.90	103.68	103.27	107.97	103.59	110.70	115.11	114.74
MIN	105.55	104.89	104.25	103.82	103.45	103.12	102.71	102.79	102.58	102.51	109.53	106.37

BANNER COUNTY

414107102233801 Local number 20N 53W 26ABAB Chimney Rock

LOCATION—Lat 41º41'07", long 103º23'38", NE ¼ NW ¼ NE ¼ NW 1/4, Hydrologic Unit 10180009.

AQUIFER—Chadron Formation of Tertiary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 500 ft., casing perforated below water table.

DATUM—Altitude of land-surface datum is 3,919 ft. Measuring point: top of shelf 3.50 ft. above land-surface datum.

PERIOD OF RECORD—Aug 1974 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 100.49 ft. below land-surface datum, Aug. 14, 1974; lowest, 232.11 ft. below land-surface datum, Sept. 7, 8, 9, and Oct. 1, 2, 1995.

STATION NUMBER 414107102233801 20N 53W26ABAB1 CHIMNEY ROCK

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206.30	203.57	---	183.15	177.99	173.93	172.60	188.20	203.69	201.55	209.54	---
2	206.30	202.76	---	182.93	177.88	173.91	174.82	187.10	202.88	201.72	213.26	---
3	214.10	202.04	---	182.81	177.74	173.78	176.55	186.17	205.70	201.25	216.49	---
4	214.40	201.30	---	182.63	177.57	173.65	176.76	185.37	209.41	200.19	217.25	---
5	214.59	200.74	189.44	182.52	177.42	173.46	176.35	184.69	209.41	199.26	219.18	---
6	214.89	200.18	189.07	182.37	177.34	173.38	175.45	184.46	208.72	198.52	221.37	---
7	215.09	199.64	188.73	182.11	177.19	173.38	177.98	185.67	209.83	199.63	222.40	---
8	215.38	199.09	188.45	181.90	176.96	173.26	179.93	187.43	211.46	201.27	221.86	---
9	215.68	198.58	188.25	181.80	176.87	173.17	181.45	189.62	212.73	202.80	219.34	231.13
10	215.98	198.02	188.01	181.64	176.76	172.95	181.29	191.40	213.85	204.09	217.33	---
11	215.98	197.55	187.68	181.39	176.58	172.92	179.83	192.82	213.83	205.09	215.82	---
12	214.37	197.11	187.47	181.25	176.53	172.76	178.49	194.02	210.91	205.99	214.96	---
13	212.17	196.76	187.20	181.09	176.32	172.58	177.47	194.78	208.35	206.82	214.44	---
14	210.57	196.21	186.93	180.90	176.17	172.57	176.62	197.76	208.88	207.70	215.06	---
15	209.06	195.79	186.61	180.69	176.02	172.36	178.02	199.88	208.42	208.55	217.55	---
16	207.76	195.40	186.57	180.46	175.91	172.27	179.70	201.34	207.61	209.46	217.42	230.89
17	206.76	194.94	186.33	180.37	175.85	172.12	181.08	201.13	211.17	210.51	216.42	229.26
18	207.65	194.62	186.18	180.23	175.68	172.07	182.52	202.25	213.28	211.53	217.37	227.85
19	208.95	194.31	185.96	180.04	175.46	171.93	182.57	205.94	213.21	212.44	220.99	226.57
20	209.95	193.88	185.65	179.89	175.38	171.93	181.91	208.76	210.92	215.66	221.79	225.41
21	210.84	193.59	185.41	179.78	175.27	171.88	181.28	209.53	209.03	217.74	220.94	224.62
22	211.44	193.20	185.25	179.63	175.09	171.66	182.36	208.05	207.67	217.84	225.14	224.06
23	212.14	192.91	185.08	179.41	175.00	171.47	182.73	204.49	206.48	217.95	229.23	223.47
24	212.83	192.60	184.81	179.22	174.87	171.35	184.15	201.71	205.39	217.61	231.16	222.93
25	212.73	192.16	184.53	178.95	174.74	171.27	185.68	199.66	204.48	215.68	231.07	222.32
26	211.33	191.83	184.34	178.89	174.60	171.20	186.99	197.97	203.53	213.79	230.67	221.61
27	209.33	191.63	184.07	178.78	174.42	171.02	---	196.84	202.63	212.17	229.84	220.88
28	207.72	191.42	183.91	178.64	174.34	170.97	---	197.49	201.87	210.85	229.85	220.26
29	206.32	190.98	183.78	178.41	174.16	170.95	---	203.07	201.09	209.93	228.65	219.46
30	205.31	190.67	183.50	178.29	---	170.86	189.40	205.45	200.35	209.32	227.89	219.90
31	204.30	---	183.38	178.09	---	170.73	---	205.37	---	209.02	229.59	---
MEAN	210.97	196.12	---	180.59	176.07	172.31	---	196.72	207.89	208.26	221.42	---
MAX	215.98	203.57	---	183.15	177.99	173.93	---	209.53	213.85	217.95	231.16	---
MIN	204.30	190.67	---	178.09	174.16	170.73	---	184.46	200.35	198.52	209.54	---

BANNER COUNTY

412337104013801 Local number 17N 58W 32DCDD1 Albin

LOCATION—Lat 41º23'36.74", long 104º01'38.18", SE ¼ SW ¼ SE ¼ SE ¼ sec 32, T.17N., R.58W., Hydrologic Unit 10190016,

AQUIFER—Ogallala Formation of Tertiary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 2.5 in., depth 395 ft., casing perforated 255 to 395 ft.

DATUM—Altitude of land-surface datum is 5,240 ft. Measuring point: top of casing, 2.10 ft above land-surface datum.

PERIOD OF RECORD—March 2000 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 199.70 ft. below land-surface datum, Oct. 10, 2000; lowest, 264.30 ft below land-surface datum, Sept. 27, 2004.

STATION NUMBER 412337104013801

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259.26	259.77	---	260.17	260.22	260.52	260.44	260.85	261.40	261.76	262.54	263.59
2	259.16	259.80	---	260.16	260.08	260.52	260.70	260.77	261.46	261.77	262.55	263.43
3	259.26	259.73	---	260.15	260.44	260.38	260.70	260.63	261.46	261.77	262.63	263.55
4	259.17	259.88	---	260.28	260.49	260.24	260.42	260.72	261.34	261.82	262.68	263.66
5	259.27	259.90	260.09	260.38	260.19	260.37	260.42	260.67	261.34	262.00	262.68	263.80
6	259.27	259.97	259.83	260.33	259.86	260.84	260.48	260.81	261.23	262.01	262.66	263.86
7	259.18	259.94	259.73	260.10	260.47	260.84	260.52	260.82	261.27	261.80	262.69	263.80
8	259.28	259.87	259.99	260.31	260.55	260.52	260.51	260.77	261.46	261.91	262.85	263.74
9	259.28	259.86	260.07	260.36	259.89	260.50	260.65	260.75	261.45	262.03	262.89	263.73
10	259.39	259.75	259.95	260.28	260.09	260.47	260.67	260.83	261.34	262.03	262.86	263.83
11	259.59	259.85	259.94	260.20	260.06	260.45	260.54	260.84	261.49	262.01	262.85	263.87
12	259.49	260.09	259.98	260.26	260.09	260.31	260.54	261.02	261.50	262.08	262.89	263.76
13	259.60	260.06	259.94	260.25	260.31	260.54	260.50	261.08	261.50	262.10	262.89	263.77
14	259.60	259.78	259.89	260.20	---	260.52	260.41	261.04	261.54	262.12	262.90	263.86
15	259.40	259.83	260.26	260.09	---	260.42	260.48	260.95	261.46	262.17	262.96	263.97
16	259.61	259.85	260.28	260.24	---	260.30	260.57	260.93	261.60	262.17	263.02	263.95
17	259.61	259.93	260.26	260.27	260.03	260.41	260.56	261.09	261.60	262.14	263.00	263.95
18	259.51	260.09	260.26	260.24	260.14	260.48	260.77	261.09	261.63	262.10	263.13	263.92
19	259.51	260.10	260.14	260.22	260.21	260.56	260.78	261.10	261.60	262.11	263.13	263.87
20	259.62	259.96	259.87	260.32	260.27	260.91	260.51	261.17	261.47	262.15	263.13	264.15
21	259.62	259.96	260.05	260.31	260.23	260.73	260.62	261.01	261.54	262.21	263.11	264.21
22	259.52	259.97	260.17	---	260.27	260.31	260.82	261.03	261.55	262.37	263.11	264.17
23	259.43	260.12	260.11	---	260.27	260.25	260.85	261.04	261.60	262.38	263.20	264.18
24	259.73	260.03	259.98	---	260.25	260.37	260.69	261.26	261.70	262.41	263.27	264.22
25	259.74	259.83	259.99	---	260.25	260.45	260.81	261.29	261.70	262.37	263.31	264.22
26	259.64	260.19	259.99	---	260.22	260.43	260.83	261.09	261.65	262.24	263.45	264.11
27	259.74	260.35	260.05	---	260.26	260.45	260.67	261.22	261.76	262.27	263.56	264.30
28	259.62	260.31	260.24	260.49	260.21	260.86	---	261.21	261.76	262.41	263.56	264.29
29	259.67	259.88	260.20	260.46	260.20	260.74	260.80	261.22	261.64	262.41	263.49	264.03
30	---	---	260.20	260.68	---	260.61	260.84	261.30	261.70	262.40	263.55	264.12
31	---	---	260.24	260.61	---	260.43	---	261.36	---	262.50	263.60	---
MEAN	---	---	---	---	---	260.51	---	261.00	261.52	262.13	263.04	263.93
MAX	---	---	---	---	---	260.91	---	261.36	261.76	262.50	263.60	264.30
MIN	---	---	---	---	---	260.24	---	260.63	261.23	261.76	262.54	263.43

BANNER COUNTY

412944103452701 Local number 18N 56W 27DDCC1 Harrisburg

LOCATION—Lat 41º29'43.15", long 103º45'27.43", SE ¼ SE ¼ SW ¼ SW ¼ sec. 27, T.18N., R.56W., Hydrologic Unit 10180013.

AQUIFER—Arikaree Sandstone of Tertiary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 2.5 in., depth 280 ft., casing perforated 160 to 280 ft.

DATUM—Altitude of land-surface datum is 4,987.38 ft. Measuring point: Top of casing 1.00 ft. above land-surface datum.

PERIOD OF RECORD—Nov. 1994 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 172.97 ft. below land-surface datum, Nov. 9, 1995; lowest, 174.01 ft. below land-surface datum, Sept. 26, 1996.

STATION NUMBER 412944103452701

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	173.15	173.27	---	173.34	173.36	173.48	173.29	173.40	173.35	173.25	173.29	173.30
2	173.05	173.32	---	173.34	173.44	173.48	173.51	173.30	173.40	173.24	173.26	173.11
3	173.26	---	---	173.33	173.25	173.33	173.50	173.21	173.36	173.21	173.29	173.25
4	173.25	---	---	173.43	173.30	173.17	173.15	173.31	173.23	173.24	173.36	173.38
5	173.25	173.39	173.43	173.53	173.47	173.39	173.29	173.23	173.26	173.39	173.31	173.42
6	173.25	173.42	173.03	173.37	173.45	173.64	173.33	173.37	173.13	173.37	173.25	173.47
7	173.18	173.36	173.14	173.22	173.31	173.64	173.34	173.35	173.21	173.12	173.25	173.32
8	173.25	173.32	173.45	173.43	173.43	173.40	173.33	173.29	173.38	173.26	173.44	173.27
9	173.26	173.30	173.46	173.46	173.41	173.38	173.45	173.22	173.34	173.34	173.39	173.24
10	173.40	173.23	173.29	173.34	173.37	173.47	173.44	173.33	173.21	173.29	173.31	173.35
11	173.57	173.35	173.27	173.33	173.45	173.43	173.29	173.36	173.35	173.23	173.31	173.36
12	173.32	173.59	173.28	173.37	173.43	173.20	173.34	173.44	173.35	173.30	173.28	173.20
13	173.41	173.45	173.23	173.35	173.22	173.53	173.27	173.46	173.29	173.28	173.27	173.23
14	173.41	173.24	173.15	173.28	173.27	173.51	173.18	173.37	173.33	173.30	173.24	173.27
15	173.30	173.30	173.61	173.15	173.31	173.35	173.31	173.25	173.28	173.30	173.25	173.41
16	173.45	173.29	173.59	173.39	173.44	173.22	173.36	173.24	173.41	173.29	173.32	173.33
17	173.41	173.42	173.49	173.39	173.41	173.34	173.32	173.39	173.35	173.24	173.25	173.28
18	173.35	173.50	173.47	173.32	173.25	173.40	173.57	173.36	173.35	173.19	173.35	173.24
19	173.28	173.48	173.31	173.29	173.35	173.47	173.57	173.32	173.30	173.20	173.35	173.18
20	173.45	173.38	173.16	173.36	173.40	173.69	173.21	173.39	173.16	173.22	173.27	173.51
21	173.36	173.37	173.35	173.38	173.29	173.49	173.34	173.15	173.27	173.28	173.23	173.50
22	173.31	173.38	173.45	173.38	173.33	173.12	173.53	173.25	173.27	173.41	173.19	173.38
23	173.20	173.46	173.31	173.18	173.33	173.17	173.52	173.21	173.29	173.35	173.25	173.36
24	173.51	173.33	173.16	173.17	173.27	173.27	173.31	173.38	173.36	173.35	173.30	173.41
25	173.49	173.20	173.26	173.42	173.27	173.33	173.43	173.41	173.32	173.28	173.24	173.36
26	173.35	173.57	173.26	173.46	173.24	173.30	173.45	173.17	173.22	173.13	173.35	173.22
27	173.18	173.70	173.29	173.40	173.33	173.31	---	173.29	173.34	173.21	173.46	173.44
28	173.23	173.56	173.44	173.32	173.22	173.49	---	173.28	173.29	173.31	173.38	173.43
29	173.34	173.24	173.36	173.37	173.19	173.48	---	173.28	173.15	173.29	173.28	173.10
30	173.46	---	173.39	173.23	---	173.37	173.43	173.31	173.21	173.23	173.30	173.25
31	173.54	---	173.42	173.31	---	173.17	---	173.35	---	173.27	173.37	---
MEAN	173.33	---	---	173.34	173.34	173.39	---	173.31	173.29	173.27	173.30	173.32
MAX	173.57	---	---	173.53	173.47	173.69	---	173.46	173.41	173.41	173.46	173.51
MIN	173.05	---	---	173.15	173.19	173.12	---	173.15	173.13	173.12	173.19	173.10

BANNER COUNTY

413813103334501 Local number 19N 54W 8ACBB Castle Rock

LOCATION—Lat 41º38'13" long 103º33'45", NW ¼ NW ¼ SW ¼ NE ¼ sec. 8, T.19N., R. 54W., Hydrologic Unit 10180013

AQUIFER—Brule Formation of Tertiary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 80 ft.

DATUM—Altitude of land-surface datum is 4,120 ft. Measuring point: Top of recorder shelf 1.20 ft. above land-surface datum.

PERIOD OF RECORD—May 1990 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 8.07 ft. below land-surface datum, May 15, 1990; lowest, 28.85 ft. below land-surface datum, Sept. 21-26, 2004.

STATION NUMBER 413813103334501 19N 54W 8ACBB1 CASTLE ROCK

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.54	26.35	25.96	25.59	25.19	24.76	24.42	24.10	25.49	26.68	27.39	28.51
2	26.53	26.32	25.95	25.58	25.17	24.76	24.41	24.10	25.54	26.76	27.38	---
3	26.53	26.30	25.92	25.57	25.15	24.75	24.41	24.09	25.63	26.82	27.36	28.77
4	26.54	26.29	25.90	25.57	25.14	24.73	24.40	24.09	25.63	26.82	27.34	28.77
5	26.54	26.28	25.93	25.54	25.14	24.69	24.38	24.13	25.63	26.83	27.41	28.76
6	26.56	26.27	25.93	25.53	25.11	24.69	24.36	24.20	25.63	26.93	27.47	28.76
7	26.57	26.26	25.92	25.51	25.10	24.68	24.35	24.22	25.97	27.03	27.44	28.75
8	26.58	26.25	25.91	25.50	25.08	24.68	24.34	24.25	26.09	27.03	27.41	28.76
9	26.58	26.24	25.91	25.49	25.08	24.66	24.32	24.28	26.17	27.03	27.39	28.76
10	26.59	26.22	25.88	25.48	25.06	24.64	24.31	24.33	26.17	27.05	27.39	28.76
11	26.59	26.21	25.87	25.46	25.04	24.64	24.29	24.40	26.20	27.07	27.45	28.77
12	26.58	26.20	25.85	25.45	25.03	24.62	24.28	24.45	26.26	27.07	27.52	28.77
13	26.57	26.19	25.84	25.44	25.02	24.60	24.27	24.47	26.32	27.11	27.52	28.77
14	26.57	26.17	25.83	25.43	25.00	24.60	24.25	24.47	26.39	27.13	27.52	28.80
15	26.57	26.16	25.81	25.42	24.99	24.58	24.25	24.50	26.47	27.15	27.59	28.81
16	26.54	26.15	25.81	25.40	24.98	24.56	24.24	24.56	26.48	27.19	27.72	28.81
17	26.54	26.13	25.80	25.39	24.96	24.55	24.22	24.64	26.52	27.26	27.83	28.81
18	26.52	26.11	25.77	25.37	24.94	24.53	24.21	24.70	26.55	27.37	27.84	28.81
19	26.51	26.10	25.77	25.35	24.92	24.52	24.21	24.75	26.57	27.49	27.86	28.81
20	26.49	26.09	25.75	25.34	24.92	24.52	24.19	24.80	26.59	27.51	27.88	28.84
21	26.48	26.08	25.73	25.33	24.89	24.52	24.17	24.89	26.60	27.51	27.90	28.85
22	26.47	26.06	25.72	25.32	24.88	24.49	24.17	24.97	26.60	27.53	27.92	28.85
23	26.46	26.06	25.71	25.31	24.87	24.47	24.14	25.00	26.61	27.53	27.96	28.85
24	26.45	26.06	25.69	25.29	24.85	24.45	24.13	25.04	26.61	27.51	27.99	28.85
25	26.44	26.04	25.68	25.27	24.84	24.44	24.12	25.15	26.63	27.48	28.03	28.85
26	26.44	26.01	25.66	25.27	24.83	24.44	24.12	25.21	26.64	27.47	28.13	28.85
27	26.42	26.01	25.64	25.26	24.81	24.44	24.12	25.29	26.66	27.45	28.25	28.84
28	26.38	26.01	25.64	25.24	24.81	24.44	24.10	25.37	26.66	27.44	28.32	28.83
29	26.38	25.98	25.63	25.23	24.79	24.44	24.10	25.39	26.67	27.43	28.38	28.82
30	26.36	25.96	25.61	25.20	---	24.43	24.10	25.43	26.68	27.41	28.41	28.80
31	26.36	---	25.61	25.19	---	24.43	---	25.46	---	27.40	28.43	---
MEAN	26.51	26.15	25.79	25.40	24.99	24.57	24.25	24.67	26.29	27.21	27.76	---
MAX	26.59	26.35	25.96	25.59	25.19	24.76	24.42	25.46	26.68	27.53	28.43	---
MIN	26.36	25.96	25.61	25.19	24.79	24.43	24.10	24.09	25.49	26.68	27.34	---

BANNER COUNTY

413853103532101 Local number 19N 57W 3BCC1. Hull Church B8E

LOCATION—Lat 41º38'56.45", long 103º53'24.00", NW ¼ SW ¼ SW ¼ sec. 3, T.19N., R.57W., Hydrologic Unit 10080013.

AQUIFER—Brule Formation of Tertiary age.

WELL CHARACTERISTICS—Drilled observation water-table well, casing perforated below water table.

DATUM—Altitude of land-surface datum is 4,414 ft. Measuring point: 2.90 ft above land-surface datum.

PERIOD OF RECORD—June 1980 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 21.82 ft. below land-surface datum, June 4, 1980; lowest, 52.77 ft. below land-surface datum, Sept. 3, 2004.

STATION NUMBER 413853103532101 19N 57W 3BCC 1 HULL CHURCH B8E

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.33	49.54	---	47.02	46.06	45.35	47.25	49.30	50.38	48.97	48.36	52.59
2	49.61	49.50	---	46.96	46.05	45.34	47.12	49.15	50.33	48.91	48.39	52.62
3	50.00	49.43	---	46.95	46.01	45.30	47.03	48.98	50.22	48.86	48.50	52.77
4	50.08	49.39	---	46.93	45.96	45.25	47.33	48.88	50.16	48.78	48.56	52.69
5	50.41	49.36	48.09	46.93	45.97	45.25	47.69	48.75	50.09	48.77	48.50	52.70
6	50.52	49.31	47.98	46.88	45.96	45.28	47.33	49.09	49.98	48.69	48.56	52.19
7	50.65	49.27	47.93	46.80	45.92	45.28	47.29	49.39	49.93	48.78	48.57	52.00
8	50.85	49.22	47.92	46.80	45.89	45.23	48.11	49.58	50.10	48.83	48.61	51.84
9	50.95	49.17	47.91	46.79	45.88	45.21	48.45	49.78	50.40	48.86	48.59	52.18
10	51.11	49.10	47.86	46.75	45.86	45.18	48.00	49.87	50.51	48.79	48.61	52.34
11	50.92	49.06	47.79	46.70	45.83	45.16	47.75	50.05	50.17	48.74	48.58	51.98
12	50.72	49.05	47.77	46.68	45.82	45.10	47.63	50.06	50.22	48.68	48.58	51.77
13	50.60	49.01	47.72	46.66	45.74	45.11	47.49	50.00	50.18	48.61	49.51	51.63
14	50.51	48.91	47.67	46.62	45.73	45.10	47.36	50.09	50.16	48.66	50.00	51.52
15	50.37	48.88	47.68	46.55	45.70	45.05	47.24	50.15	50.00	48.65	50.39	51.38
16	50.27	48.84	47.66	46.53	45.70	45.01	48.06	50.14	49.90	48.71	50.47	51.28
17	---	48.77	47.62	46.51	45.68	44.99	48.43	50.31	49.79	48.75	50.44	50.79
18	50.13	48.77	47.59	46.48	45.63	44.99	48.77	50.37	49.82	48.77	50.75	50.47
19	50.04	48.73	47.54	46.43	45.60	44.98	48.83	50.45	49.85	48.87	50.97	50.68
20	49.96	48.65	47.45	46.41	45.60	45.01	48.96	50.44	49.87	48.86	51.18	50.92
21	49.88	48.63	47.42	46.41	45.56	44.97	49.06	50.56	49.87	48.89	51.25	50.62
22	49.81	48.56	47.42	46.39	45.53	44.89	49.11	50.62	49.75	48.91	51.62	50.42
23	50.18	48.54	47.37	46.32	45.52	45.33	49.13	50.66	49.64	48.75	51.99	50.27
24	50.37	48.49	47.31	46.28	45.49	45.76	49.23	50.73	49.52	48.61	52.10	50.18
25	50.19	48.42	47.24	46.25	45.45	46.33	49.39	50.77	49.43	48.49	52.11	50.06
26	50.04	48.41	47.23	46.24	45.43	46.65	49.45	50.81	49.33	48.37	51.77	49.95
27	49.91	48.41	47.17	46.21	45.40	47.27	49.16	50.85	49.29	48.28	51.64	49.86
28	49.83	48.37	47.17	46.18	45.37	47.45	---	50.65	49.19	48.22	51.55	49.81
29	49.69	48.26	47.13	46.15	45.33	47.61	49.67	50.48	49.13	48.20	51.90	49.68
30	49.68	---	47.08	46.10	---	47.85	49.52	50.42	49.05	48.20	52.21	49.59
31	49.63	---	47.07	46.07	---	47.88	---	50.38	---	48.34	52.43	---
MEAN	---	---	---	46.55	45.71	45.65	---	50.06	49.88	48.67	50.22	51.23
MAX	---	---	---	47.02	46.06	47.88	---	50.85	50.51	48.97	52.43	52.77
MIN	---	---	---	46.07	45.33	44.89	---	48.75	49.05	48.20	48.36	49.59

403954099152101 Local number 8N 17W 16BCC1 Odessa

LOCATION—Lat 40º39'54", long 99º15'21", SW ¼ SW ¼ NW ¼ sec. 16, T.8N., R.17W., Hydrologic Unit 10200101.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.—Drilled observation water-table well, diameter 2 in., depth 30 ft., perforated 10 to 30 ft.

DATUM—Altitude of land-surface datum is 2,200 ft. Measuring point: 3.30 ft. above land-surface datum.

PERIOD OF RECORD—June 1999 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 6.53 ft. below land-surface datum, Feb. 28, 2001; lowest, 11.50 ft. below land-surface datum, Sept. 12, 2004.

STATION NUMBER 403954099152101 8N 17W16BCC 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.85	10.70	10.28	10.06	9.84	9.60	10.27	10.40	11.11	11.31	11.12	11.43
2	10.88	10.70	10.29	10.20	10.07	9.66	10.28	10.42	11.14	11.23	11.12	11.43
3	10.90	10.64	10.15	10.20	10.09	9.67	10.31	10.45	11.17	11.16	11.12	11.43
4	10.91	10.59	10.14	10.48	9.81	9.74	10.33	10.47	11.20	11.20	11.15	11.43
5	10.93	10.57	10.06	10.51	9.88	9.74	10.34	10.53	11.21	11.20	11.20	11.43
6	10.93	10.56	10.09	10.42	9.94	9.76	10.35	10.57	11.23	10.87	---	11.42
7	10.91	10.55	10.28	9.92	10.02	9.83	10.36	10.60	11.26	10.23	---	11.44
8	10.90	10.55	10.32	9.84	10.01	9.87	10.37	10.61	11.27	10.44	---	11.46
9	10.90	10.55	10.28	9.90	10.10	9.88	10.38	10.59	11.28	10.37	---	11.46
10	10.89	10.54	10.05	9.98	10.00	9.80	10.37	10.48	11.29	10.45	---	11.46
11	10.89	10.53	9.99	10.13	10.00	9.83	10.40	10.45	11.30	10.50	---	11.48
12	10.84	10.56	10.09	10.18	9.98	9.84	10.41	10.49	11.31	10.60	---	11.50
13	10.84	10.55	10.26	9.99	10.02	9.88	10.41	10.50	11.32	10.68	---	11.49
14	10.80	10.20	10.33	10.01	10.03	10.00	10.41	10.49	11.34	10.74	---	11.48
15	10.80	9.93	10.36	10.10	10.05	10.04	10.42	10.51	11.33	10.79	---	11.41
16	10.81	10.07	10.38	9.99	10.14	9.94	10.42	10.51	11.32	10.86	---	11.38
17	10.82	10.31	10.29	10.01	10.09	9.95	10.40	10.49	11.29	10.92	---	11.38
18	10.82	10.32	10.38	10.11	9.92	10.03	10.43	10.48	11.29	10.99	---	11.39
19	10.82	10.26	10.37	10.12	9.82	10.10	10.43	10.48	11.27	11.06	---	11.38
20	10.78	10.28	10.09	10.07	9.80	10.04	10.42	10.51	11.27	11.08	---	11.34
21	10.79	10.30	10.19	10.10	9.81	10.13	10.37	10.67	11.25	11.08	---	11.35
22	10.78	10.19	10.25	9.98	9.60	10.20	10.37	10.63	11.27	11.10	---	11.34
23	10.79	10.37	10.25	9.96	9.78	10.22	10.37	10.64	11.29	11.09	---	10.95
24	10.81	10.42	10.10	10.00	9.84	10.23	10.37	10.72	11.29	11.05	---	10.94
25	10.78	10.25	10.04	10.00	9.86	10.23	10.24	10.83	11.29	11.05	---	10.89
26	10.78	10.04	10.20	10.41	9.70	10.14	10.26	10.88	11.29	11.09	11.36	10.87
27	10.78	10.11	10.20	10.29	9.76	10.16	10.30	10.93	11.28	11.15	11.37	10.92
28	10.76	10.31	10.14	10.05	9.77	10.17	10.34	10.97	11.30	11.17	11.39	10.91
29	10.76	10.32	10.24	10.05	9.62	10.22	10.37	11.01	11.31	11.20	11.40	10.91
30	10.71	10.18	10.28	9.91	---	10.25	10.38	11.03	11.32	11.20	11.42	10.91
31	10.70	---	10.10	9.86	---	10.28	---	11.07	---	11.11	11.43	---
MEAN	10.83	10.38	10.21	10.09	9.91	9.98	10.36	10.63	11.27	10.93	---	11.29
MAX	10.93	10.70	10.38	10.51	10.14	10.28	10.43	11.07	11.34	11.31	---	11.50
MIN	10.70	9.93	9.99	9.84	9.60	9.60	10.24	10.40	11.11	10.23	---	10.87

BUFFALO COUNTY

404618098504401 Local number 9N 14W 1DC Gibbon

LOCATION—Lat 40°46'18", long 098°50'44", SW 1/4 SE 1/4 sec. 1, T. 9 N., R. 14 W., Hydrologic Unit 10200102, 1.3 mi north of the intersection of Route 30 and the North-South range-line road on the east side of Gibbon, then 0.5 mi west on section-line road. Owner: U.S. Geological Survey.

AQUIFER—Sand and gravel deposits, undifferentiated, Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 8 in., depth 38 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 2,060.43 ft. Measuring point: Top of casing 0.80 ft above land-surface datum.

REMARKS—Water levels in well are affected by pumpage from nearby irrigation wells.

PERIOD OF RECORD—July 1946 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 11.17 ft below land-surface datum, July 13, 1999; lowest, 29.22 ft below land-surface datum, Aug. 10, 1980.

STATION NUMBER 404618098504401 9N 14W 1DC 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.65	25.43	25.32	25.22	25.14	25.09	24.95	24.87	24.76	25.03	26.19	27.73
2	25.62	25.40	25.32	25.21	25.14	25.11	24.94	24.87	24.76	25.07	26.28	27.76
3	25.59	25.39	25.30	25.21	25.14	25.10	24.94	24.87	24.77	25.08	26.49	27.82
4	25.57	25.38	25.30	25.22	25.14	25.08	24.94	24.85	24.77	25.12	26.65	27.86
5	25.57	25.39	25.31	25.22	25.13	25.05	24.93	24.84	24.76	25.16	26.72	27.89
6	25.56	25.39	25.30	25.23	25.13	25.05	24.93	24.83	24.73	25.19	26.72	27.92
7	25.56	25.39	25.27	25.23	25.14	25.08	24.92	24.83	24.73	25.22	26.68	27.93
8	25.54	25.38	25.27	25.21	25.14	25.08	24.91	24.83	24.73	25.27	26.64	27.96
9	25.53	25.38	25.27	25.22	25.14	25.06	24.91	24.82	24.73	25.28	26.60	27.99
10	25.52	25.35	25.28	25.22	25.14	25.05	24.91	24.82	24.73	25.32	26.70	28.00
11	25.53	25.34	25.28	25.19	25.13	25.05	24.91	24.81	24.72	25.33	26.83	28.01
12	25.53	25.37	25.27	25.20	25.14	25.05	24.90	24.82	24.72	25.36	26.98	28.01
13	25.51	25.37	25.27	25.20	25.14	25.05	24.90	24.84	24.72	25.40	27.11	27.96
14	25.51	25.35	25.25	25.20	25.11	25.03	24.89	24.84	24.75	25.43	27.11	27.88
15	25.50	25.33	25.27	25.18	25.11	25.03	24.88	24.84	24.81	25.48	27.11	27.87
16	25.49	25.33	25.28	25.17	25.11	25.03	24.88	24.81	24.90	25.53	27.08	27.89
17	25.49	25.33	25.28	25.18	25.12	24.99	24.88	24.81	24.91	25.67	27.07	27.90
18	25.48	25.32	25.28	25.19	25.12	25.01	24.88	24.81	24.93	25.83	27.08	27.91
19	25.47	25.34	25.28	25.18	25.09	25.01	24.91	24.80	24.93	25.95	27.10	27.91
20	25.46	25.33	25.28	25.18	25.10	25.00	24.90	24.80	24.91	26.07	27.09	27.91
21	25.46	25.32	25.24	25.17	25.11	25.00	24.87	24.79	24.86	26.13	27.10	27.91
22	25.46	25.32	25.24	25.17	25.10	25.00	24.89	24.78	24.86	26.13	27.16	27.91
23	25.45	25.32	25.24	25.17	25.10	24.98	24.90	24.79	24.86	26.05	27.21	27.89
24	25.45	25.32	25.24	25.15	25.10	24.96	24.89	24.79	24.87	25.95	27.24	27.89
25	25.45	25.30	25.24	25.15	25.10	24.96	24.87	24.79	24.89	25.97	27.27	27.89
26	25.45	25.30	25.22	25.17	25.09	24.96	24.88	24.79	24.95	26.03	27.27	27.85
27	25.44	25.32	25.21	25.17	25.07	24.96	24.88	24.76	25.01	26.09	27.24	27.83
28	25.40	25.32	25.22	25.17	25.07	24.97	24.85	24.76	25.05	26.13	27.37	27.80
29	25.40	25.32	25.22	25.16	25.06	24.98	24.86	24.76	25.07	26.14	27.55	27.78
30	25.41	25.30	25.22	25.16	---	24.97	24.87	24.75	25.06	26.15	27.69	27.75
31	25.43	---	25.22	25.14	---	24.96	---	24.76	---	26.15	27.71	---
MEAN	25.50	25.35	25.26	25.19	25.12	25.02	24.90	24.81	24.84	25.64	27.00	27.89
MAX	25.65	25.43	25.32	25.23	25.14	25.11	24.95	24.87	25.07	26.15	27.71	28.01
MIN	25.40	25.30	25.21	25.14	25.06	24.96	24.85	24.75	24.72	25.03	26.19	27.73

BUFFALO COUNTY

405129099090201 Local number 10N 16W 8BAAA Riverdale Shallow

LOCATION—Lat 40º51'29", long 99º09'02", NE ¼ NE ¼ NE ¼ NW ¼ sec. 8, T.10N., R.16 W., Hydrologic Unit 10200102, north of Kearney on Highway 10 7 ½ mi. north of intersection of Highway 10 and Highway 40, then west approximately 3 ½ mi.

AQUIFER—Ogallala formation of Tertiary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 5 in., depth 150 ft., perforated 130 to 150 ft.

DATUM—Altitude of land-surface datum is 2,260 ft. Measuring point: Top of shelf 3 ft. above land-surface datum.

PERIOD OF RECORD—October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 118.71 ft. below land-surface datum, July 3, 1995; lowest, 134.98 ft. below land-surface datum, Sept. 2, 2004.

STATION NUMBER 405129099090201 10N 16W 8BAAA1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132.33	131.71	131.10	130.49	129.90	129.51	129.13	128.89	128.86	131.38	133.54	134.93
2	132.22	131.51	131.10	130.34	129.96	129.72	129.13	128.86	128.95	131.52	133.41	134.98
3	132.05	131.44	130.83	130.35	129.96	129.72	129.20	128.82	129.00	131.18	133.27	134.91
4	132.00	131.38	130.92	130.43	129.92	129.56	129.19	128.68	128.96	130.67	133.59	134.76
5	132.00	131.49	130.98	130.55	129.83	129.40	129.05	128.66	128.82	130.44	133.96	134.70
6	131.99	131.50	130.97	130.55	129.90	129.48	128.96	128.64	128.99	130.34	134.12	134.81
7	131.99	131.46	130.62	130.48	129.93	129.67	128.96	128.71	128.78	130.28	134.14	134.96
8	131.92	131.43	130.63	130.24	129.91	129.66	129.02	128.86	129.15	130.04	134.08	134.87
9	131.91	131.41	130.77	130.36	129.83	129.56	129.05	128.98	129.50	130.01	134.36	134.58
10	131.87	131.22	130.78	130.36	129.84	129.45	129.11	129.31	129.55	130.01	134.36	134.42
11	131.94	131.09	130.75	130.20	129.83	129.47	129.09	129.67	129.57	129.95	134.39	134.40
12	131.95	131.34	130.73	130.25	129.91	129.47	129.01	129.82	129.57	129.87	134.37	134.38
13	131.91	131.37	130.69	130.28	129.87	129.31	129.01	129.82	129.50	129.82	134.02	134.29
14	131.90	131.27	130.56	130.20	129.71	129.44	128.98	129.74	129.41	129.82	133.85	134.12
15	131.87	131.04	130.51	130.13	129.75	129.37	128.84	129.61	129.39	129.84	133.85	134.16
16	131.84	131.11	130.79	130.00	129.73	129.32	128.80	129.33	129.34	130.77	134.22	134.21
17	131.87	131.07	130.79	130.15	129.77	129.23	128.88	129.14	129.35	131.56	134.35	134.15
18	131.80	131.08	130.75	130.21	129.73	129.33	128.82	129.18	129.34	131.97	134.35	134.07
19	131.73	131.16	130.75	130.21	129.55	129.33	129.03	129.13	129.34	132.27	134.17	134.02
20	131.70	131.13	130.69	130.10	129.61	129.49	129.00	129.04	129.20	132.44	134.27	133.99
21	131.70	131.10	130.44	130.10	129.68	129.55	128.78	129.04	128.95	132.27	134.27	133.98
22	131.69	131.07	130.55	130.14	129.63	129.47	128.96	128.88	129.01	132.41	134.14	133.99
23	131.67	131.08	130.56	130.08	129.69	129.20	129.03	128.89	129.00	132.93	134.25	133.90
24	131.57	131.10	130.55	129.93	129.71	129.05	129.02	128.91	129.04	133.15	134.61	133.91
25	131.71	130.92	130.46	129.87	129.68	129.12	128.85	129.03	129.07	133.15	134.70	133.93
26	131.71	130.90	130.37	130.07	129.60	129.19	128.93	129.01	129.03	133.08	134.69	133.91
27	131.55	131.13	130.29	130.10	129.46	129.12	128.91	129.02	129.05	132.64	134.59	133.80
28	131.39	131.16	130.44	130.08	129.45	129.27	128.69	129.00	130.07	132.68	134.60	133.82
29	131.39	131.09	130.49	130.04	129.42	129.32	128.81	128.85	130.41	133.24	134.56	133.78
30	131.50	130.98	130.46	129.97	---	129.30	128.88	128.76	130.68	133.44	134.50	133.58
31	131.71	---	130.50	129.89	---	129.27	---	128.83	---	133.55	134.77	---
MEAN	131.82	131.22	130.67	130.20	129.75	129.40	128.97	129.07	129.30	131.51	134.20	134.28
MAX	132.33	131.71	131.10	130.55	129.96	129.72	129.20	129.82	130.68	133.55	134.77	134.98
MIN	131.39	130.90	130.29	129.87	129.42	129.05	128.69	128.64	128.78	129.82	133.27	133.58

BUFFALO COUNTY

405137099085201 Local number 10N 16W 5DC1 Riverdale Deep

LOCATION—Lat 40º51'37", long 99º08'52", SW ¼ SE ¼ sec. 5, T.10N., R.16W., Hydrologic Unit 10200102, north of Kearney on Highway 10 7 ½ mi. north of intersection of Highway 10 and Highway 40, then west approximately 3 ½ mi.

AQUIFER—Ogallala formation of Tertiary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 6 in., depth 240 ft., perforated 221 to 240 ft.

DATUM—Altitude of land-surface datum is 2,262 ft. Measuring point: Top of casing 1.10 ft. above land-surface datum.

PERIOD OF RECORD—November 1968 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 108.65 ft. below land-surface datum, Nov. 21, 1968; lowest, 135.38 ft. below land-surface datum, Sept. 7, 2004.

STATION NUMBER 405129099090201 10N 16W 8BAAA1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132.33	131.71	131.10	130.49	129.90	129.51	129.13	128.89	128.86	131.38	133.54	134.93
2	132.22	131.51	131.10	130.34	129.96	129.72	129.13	128.86	128.95	131.52	133.41	134.98
3	132.05	131.44	130.83	130.35	129.96	129.72	129.20	128.82	129.00	131.18	133.27	134.91
4	132.00	131.38	130.92	130.43	129.92	129.56	129.19	128.68	128.96	130.67	133.59	134.76
5	132.00	131.49	130.98	130.55	129.83	129.40	129.05	128.66	128.82	130.44	133.96	134.70
6	131.99	131.50	130.97	130.55	129.90	129.48	128.96	128.64	128.99	130.34	134.12	134.81
7	131.99	131.46	130.62	130.48	129.93	129.67	128.96	128.71	128.78	130.28	134.14	134.96
8	131.92	131.43	130.63	130.24	129.91	129.66	129.02	128.86	129.15	130.04	134.08	134.87
9	131.91	131.41	130.77	130.36	129.83	129.56	129.05	128.98	129.50	130.01	134.36	134.58
10	131.87	131.22	130.78	130.36	129.84	129.45	129.11	129.31	129.55	130.01	134.36	134.42
11	131.94	131.09	130.75	130.20	129.83	129.47	129.09	129.67	129.57	129.95	134.39	134.40
12	131.95	131.34	130.73	130.25	129.91	129.47	129.01	129.82	129.57	129.87	134.37	134.38
13	131.91	131.37	130.69	130.28	129.87	129.31	129.01	129.82	129.50	129.82	134.02	134.29
14	131.90	131.27	130.56	130.20	129.71	129.44	128.98	129.74	129.41	129.82	133.85	134.12
15	131.87	131.04	130.51	130.13	129.75	129.37	128.84	129.61	129.39	129.84	133.85	134.16
16	131.84	131.11	130.79	130.00	129.73	129.32	128.80	129.33	129.34	130.77	134.22	134.21
17	131.87	131.07	130.79	130.15	129.77	129.23	128.88	129.14	129.35	131.56	134.35	134.15
18	131.80	131.08	130.75	130.21	129.73	129.33	128.82	129.18	129.34	131.97	134.35	134.07
19	131.73	131.16	130.75	130.21	129.55	129.33	129.03	129.13	129.34	132.27	134.17	134.02
20	131.70	131.13	130.69	130.10	129.61	129.49	129.00	129.04	129.20	132.44	134.27	133.99
21	131.70	131.10	130.44	130.10	129.68	129.55	128.78	129.04	128.95	132.27	134.27	133.98
22	131.69	131.07	130.55	130.14	129.63	129.47	128.96	128.88	129.01	132.41	134.14	133.99
23	131.67	131.08	130.56	130.08	129.69	129.20	129.03	128.89	129.00	132.93	134.25	133.90
24	131.57	131.10	130.55	129.93	129.71	129.05	129.02	128.91	129.04	133.15	134.61	133.91
25	131.71	130.92	130.46	129.87	129.68	129.12	128.85	129.03	129.07	133.15	134.70	133.93
26	131.71	130.90	130.37	130.07	129.60	129.19	128.93	129.01	129.03	133.08	134.69	133.91
27	131.55	131.13	130.29	130.10	129.46	129.12	128.91	129.02	129.05	132.64	134.59	133.80
28	131.39	131.16	130.44	130.08	129.45	129.27	128.69	129.00	130.07	132.68	134.60	133.82
29	131.39	131.09	130.49	130.04	129.42	129.32	128.81	128.85	130.41	133.24	134.56	133.78
30	131.50	130.98	130.46	129.97	---	129.30	128.88	128.76	130.68	133.44	134.50	133.58
31	131.71	---	130.50	129.89	---	129.27	---	128.83	---	133.55	134.77	---
MEAN	131.82	131.22	130.67	130.20	129.75	129.40	128.97	129.07	129.30	131.51	134.20	134.28
MAX	132.33	131.71	131.10	130.55	129.96	129.72	129.20	129.82	130.68	133.55	134.77	134.98
MIN	131.39	130.90	130.29	129.87	129.42	129.05	128.69	128.64	128.78	129.82	133.27	133.58

CHASE COUNTY

402757101591201 Local number 6N 41W 21CCC1 Champion

LOCATION—Lat 40º27'57", long 101º59'12", SW ¼ SW ¼ SW ¼ sec. 21, T.6N., R.41W., Hydrologic Unit 10250005.

AQUIFER—Ogallala formation of Tertiary age.

WELL CHARACTERISTICS— Drilled observation water-table well, diameter 5 in., depth 180 ft., screened 100 to 120 ft., 140 to 160 ft., 170 to 180 ft.

DATUM—Altitude of land-surface datum is 3,513 ft. Measuring point: Top of casing 1.5 ft. above land-surface datum.

PERIOD OF RECORD—March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 32.00 ft. below land-surface datum, Mar. 1, 1972; lowest, 76.36 ft. below land-surface datum, Sept. 12, 2004.

STATION NUMBER 402757101591201 6N 41W21CCC1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74.40	73.67	73.21	72.56	72.10	71.80	71.66	71.56	73.14	74.09	75.00	76.02
2	74.33	73.67	73.06	72.55	72.12	71.79	71.78	71.49	73.27	74.06	75.00	75.99
3	74.42	73.60	73.06	72.55	72.05	71.69	71.79	71.63	73.30	74.00	75.08	76.00
4	74.42	73.63	73.13	72.57	72.04	71.66	71.63	71.97	73.39	73.96	75.17	75.99
5	74.38	73.63	73.05	72.56	72.09	71.73	71.67	72.15	73.34	73.90	75.17	76.03
6	74.37	73.58	72.91	72.50	72.09	71.75	71.74	72.27	73.42	73.90	75.12	76.02
7	74.31	73.54	72.89	72.41	72.02	71.75	71.85	72.15	73.70	73.89	75.34	76.02
8	74.30	73.51	72.98	72.49	72.09	71.66	71.85	72.22	73.89	74.20	75.47	76.03
9	74.27	73.49	72.98	72.47	72.07	71.66	71.79	72.22	73.89	74.29	75.49	76.08
10	74.29	73.46	72.91	72.44	72.01	71.69	71.77	72.23	73.78	74.23	75.49	76.22
11	74.34	73.46	72.88	72.41	72.05	71.66	71.66	72.35	73.66	74.19	75.45	76.27
12	74.22	73.55	72.88	72.41	72.04	71.53	71.69	72.43	73.68	74.08	75.50	76.36
13	74.25	73.45	72.85	72.38	71.89	71.69	71.62	72.41	73.93	74.05	75.56	76.35
14	74.19	73.35	72.79	72.34	71.94	71.68	71.51	72.41	74.07	74.27	75.63	76.27
15	74.08	73.34	72.94	72.27	71.90	71.56	71.56	72.35	74.11	74.34	75.63	76.29
16	74.10	73.34	72.93	72.34	71.95	71.48	71.52	72.35	74.01	74.29	75.63	76.13
17	74.07	73.35	72.86	72.34	71.94	71.56	71.49	72.42	73.96	74.17	75.72	76.01
18	74.04	73.36	72.85	72.30	71.82	71.60	71.66	72.35	73.99	74.08	75.74	75.94
19	73.99	73.34	72.77	72.24	71.89	71.68	71.65	72.28	73.87	74.10	75.74	75.92
20	74.04	73.34	72.69	72.26	71.91	71.77	71.71	72.40	73.71	74.48	75.68	75.88
21	73.94	73.32	72.74	72.26	71.87	71.67	71.75	72.35	73.72	74.63	75.66	75.88
22	73.92	73.29	72.75	72.26	71.84	71.48	71.76	72.52	73.75	74.64	75.84	75.79
23	73.86	73.28	72.70	72.17	71.83	71.46	71.72	72.51	73.90	74.63	75.92	75.72
24	73.94	73.23	72.66	72.17	71.80	71.57	71.61	72.61	73.92	74.56	75.95	75.71
25	73.91	73.16	72.67	72.24	71.78	71.69	71.63	72.64	73.84	74.43	75.90	75.67
26	73.83	73.26	72.65	72.23	71.74	71.69	71.61	72.65	73.81	74.31	75.85	75.61
27	73.80	73.26	72.64	72.21	71.77	71.64	71.61	72.81	73.78	74.33	75.88	75.62
28	73.80	73.20	72.66	72.16	71.70	71.67	71.65	72.81	73.84	74.65	75.85	75.59
29	73.78	73.07	72.62	72.20	71.68	71.66	71.70	72.69	73.88	74.72	75.88	75.54
30	73.80	73.23	72.66	72.06	---	71.62	71.62	72.77	74.01	74.76	75.94	75.67
31	73.78	---	72.63	72.08	---	71.50	---	72.82	---	74.79	76.02	---
MEAN	74.10	73.40	72.84	72.34	71.93	71.65	71.68	72.35	73.75	74.29	75.59	75.95
MAX	74.42	73.67	73.21	72.57	72.12	71.80	71.85	72.82	74.11	74.79	76.02	76.36
MIN	73.78	73.07	72.62	72.06	71.68	71.46	71.49	71.49	73.14	73.89	75.00	75.54

CHASE COUNTY

403235101395501 Local number 7N 38W 29CBB Imperial

LOCATION—Lat 40º32'35", long 101º39'55", NW 1/4 NW 1/4 SW 1/4 sec. 29, T. 7 N., R. 38 W., Hydrologic Unit 10250005, 0.5 mi north and 1 mi west of Imperial on U.S. Highway 6, then 0.5 mi north on gravel road.

AQUIFER—Ogallala Formation of Tertiary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 5.50 in., depth 230 ft, perforated 190 to 230 ft.

DATUM—Altitude of land-surface datum is 3,290.30 ft. Measuring point: Top of casing 0.50 ft above land-surface datum.

REMARKS—Water levels in well are affected by irrigation pumpage in area.

PERIOD OF RECORD—June 1964 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 55.87 ft below land-surface datum, July 4, 1964; lowest, 109.51 ft below land-surface datum, Sept. 15, 2004.

STATION NUMBER 403235101395501 7N 38W29CBB 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105.91	105.51	105.15	104.56	104.32	104.20	103.77	103.74	104.61	105.91	105.89	108.87
2	105.79	105.25	104.82	104.62	104.36	104.20	104.03	103.71	104.70	105.18	107.37	108.98
3	105.76	105.25	104.79	104.64	104.35	104.07	104.04	103.58	104.73	104.98	107.94	109.15
4	105.76	105.25	104.98	104.69	104.20	103.94	103.87	103.61	104.43	104.90	108.04	108.21
5	105.76	105.31	104.98	104.73	104.33	104.00	103.75	103.71	104.32	104.95	107.91	107.89
6	105.76	105.31	104.80	104.73	104.33	104.18	103.78	103.95	105.38	105.00	107.80	108.01
7	105.74	105.29	104.57	104.51	104.31	104.22	103.90	104.60	105.45	105.82	107.80	108.00
8	105.65	105.22	104.83	104.63	104.28	104.05	103.92	104.72	105.10	106.60	107.12	108.05
9	105.65	105.21	104.90	104.63	104.28	104.00	103.83	104.72	105.10	106.67	107.20	109.10
10	105.65	105.02	104.90	104.63	104.28	104.08	103.83	104.58	104.78	106.62	108.08	109.35
11	105.88	105.13	104.74	104.52	104.29	104.08	103.79	104.00	105.36	105.33	108.14	109.40
12	105.88	105.35	104.75	104.53	104.29	103.96	103.76	105.12	105.42	105.23	107.97	108.14
13	105.67	105.34	104.75	104.53	104.07	104.15	103.75	105.12	105.38	105.22	107.32	108.38
14	105.67	104.96	104.71	104.48	104.07	104.16	103.62	104.45	105.63	105.43	108.08	109.39
15	105.54	104.99	104.99	104.48	104.07	103.92	103.65	103.96	105.63	106.74	108.17	109.51
16	105.64	104.99	104.99	104.54	104.17	103.92	103.68	103.84	105.58	106.52	108.22	108.29
17	105.64	104.98	104.87	104.55	104.17	103.87	103.69	104.05	104.95	105.56	107.54	107.90
18	105.62	105.14	104.82	104.56	104.03	104.04	103.93	104.05	104.86	106.44	108.56	107.87
19	105.60	105.14	104.82	104.56	104.00	103.96	103.96	103.88	104.86	107.01	108.57	107.88
20	105.54	104.99	104.56	104.49	104.14	104.27	103.71	104.96	104.57	107.27	108.45	107.83
21	105.55	105.01	104.64	104.50	104.14	104.23	103.69	104.96	104.61	107.32	107.64	107.95
22	105.55	104.93	104.73	104.49	104.00	103.76	103.81	105.19	104.61	107.37	107.40	107.95
23	105.42	105.04	104.73	104.40	104.02	103.85	103.81	105.50	104.69	107.28	108.65	107.68
24	105.55	105.04	104.63	104.31	104.03	103.87	103.74	105.80	105.28	106.09	108.83	107.70
25	105.56	104.78	104.56	104.45	104.00	103.90	103.71	105.80	105.31	105.93	108.83	107.67
26	105.56	105.03	104.56	104.51	103.95	103.91	103.73	105.54	104.84	105.71	108.77	107.54
27	105.28	105.17	104.60	104.51	103.93	103.91	103.64	105.04	104.83	105.56	108.77	107.61
28	105.31	105.17	104.70	104.38	103.93	104.03	103.56	105.03	105.55	105.98	108.04	107.61
29	105.23	104.70	104.70	104.34	103.89	104.03	103.82	104.79	106.22	107.10	107.67	107.38
30	105.47	105.15	104.70	104.34	---	103.92	103.81	104.72	106.34	107.17	108.57	107.28
31	105.55	---	104.73	104.25	---	103.81	---	104.53	---	105.99	108.87	---
MEAN	105.62	105.12	104.77	104.52	104.15	104.02	103.79	104.56	105.10	106.09	108.01	108.22
MAX	105.91	105.51	105.15	104.73	104.36	104.27	104.04	105.80	106.34	107.37	108.87	109.51
MIN	105.23	104.70	104.56	104.25	103.89	103.76	103.56	103.58	104.32	104.90	105.89	107.28

CHASE COUNTY

403516101560601 Local number 7N 41W 11DAA1 Lamar

LOCATION—Lat 40º35'16", long 101º56'06", SE ¼ NE ¼ NE ¼ sec. 11, T7N., R.41W., Hydrologic Unit 10250005.

AQUIFER.—Ogallala Formation of Tertiary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 5 in., depth 192 ft., casing perforated 182 to 192 ft.

DATUM—Altitude of land-surface datum is 3,506 ft. Measuring point: top of casing 1.60 ft. above land-surface datum.

PERIOD OF RECORD.—Sept. 1973 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 56.92 ft. below land-surface datum, Sept. 27, 1973; lowest, 116.35 ft. below land-surface datum, Aug. 8, 2003.

STATION NUMBER 403516101560601 7N 41W11DAA

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107.39	105.27	104.85	104.02	103.64	103.43	103.06	102.76	106.31	110.33	107.09	113.95
2	107.39	105.20	104.54	104.08	103.67	103.43	103.28	102.83	106.65	109.50	112.37	114.03
3	107.40	105.14	104.57	104.08	103.60	103.21	103.28	104.66	106.50	105.63	113.16	114.01
4	106.17	105.18	104.69	104.10	103.55	103.14	102.97	104.66	108.79	104.87	112.89	111.94
5	106.06	105.22	104.68	104.13	103.64	103.23	102.89	105.69	106.15	104.93	113.67	112.51
6	106.03	105.19	104.41	104.06	103.64	103.37	103.42	106.88	104.72	105.88	113.67	111.01
7	105.96	105.12	104.36	103.86	103.56	103.38	103.63	106.87	106.14	106.40	113.30	113.78
8	105.94	105.06	104.55	104.03	103.63	103.16	103.63	107.06	106.69	107.97	112.47	113.97
9	105.94	105.05	104.57	104.03	103.63	103.16	103.53	106.97	108.88	108.89	112.02	113.21
10	105.90	104.97	104.50	103.97	103.57	103.22	103.11	105.59	106.71	108.53	111.22	113.21
11	106.11	104.98	104.41	103.91	103.61	103.22	102.91	105.27	105.63	104.92	111.17	113.46
12	105.93	105.20	104.41	103.91	103.61	103.03	102.95	105.54	104.35	104.65	112.85	113.26
13	105.83	105.12	104.35	103.90	103.35	103.24	102.88	105.51	104.35	105.33	114.12	110.72
14	105.83	104.86	104.31	103.83	103.44	103.24	102.77	107.16	106.50	106.85	113.86	112.05
15	105.66	104.89	104.57	103.76	103.43	103.05	102.84	107.24	108.37	111.30	113.52	112.19
16	105.83	104.89	104.57	103.89	103.50	103.00	102.92	105.21	108.07	111.18	113.53	111.49
17	105.83	104.91	104.41	103.89	103.50	103.02	102.92	105.67	104.68	107.00	112.76	110.73
18	105.64	105.01	104.41	103.84	103.32	103.12	104.71	105.68	104.32	107.24	111.30	110.32
19	105.55	104.94	104.31	103.75	103.41	104.47	104.73	104.90	104.29	111.00	111.19	108.42
20	105.63	104.88	104.12	103.80	103.48	104.60	104.41	107.39	104.06	112.46	112.20	108.12
21	105.54	104.88	104.25	103.80	103.43	103.39	102.85	110.05	104.08	113.16	113.43	108.14
22	105.48	104.82	104.30	103.77	103.36	104.19	102.91	110.26	104.07	113.20	113.49	107.92
23	105.39	104.87	104.26	103.64	103.38	104.33	102.91	107.41	104.08	112.86	113.58	107.65
24	105.54	104.81	104.12	103.64	103.33	104.50	102.79	104.88	104.12	109.44	113.50	107.65
25	105.54	104.67	104.15	103.79	103.24	104.89	102.84	106.21	104.17	105.66	111.69	107.61
26	105.45	104.84	104.15	103.81	103.21	104.89	102.84	106.23	104.17	105.32	111.31	107.48
27	105.25	104.92	104.14	103.78	103.26	104.75	102.72	105.12	104.37	106.13	111.22	107.83
28	105.35	104.86	104.20	103.70	103.18	104.92	102.72	107.22	105.38	109.91	110.67	107.63
29	105.29	104.54	104.19	103.68	103.13	103.78	102.92	106.70	106.25	112.59	110.08	107.64
30	105.41	104.85	104.15	103.60	---	103.13	102.87	104.54	111.55	112.25	110.91	107.25
31	105.44	---	104.18	103.60	---	103.09	---	104.43	---	110.00	113.58	---
MEAN	105.86	104.97	104.38	103.86	103.46	103.63	103.17	106.02	105.81	108.56	112.32	110.64
MAX	107.40	105.27	104.85	104.13	103.67	104.92	104.73	110.26	111.55	113.20	114.12	114.03
MIN	105.25	104.54	104.12	103.60	103.13	103.00	102.72	102.76	104.06	104.65	107.09	107.25

DAWSON COUNTY

404343099272901 Local number 9N 19W 26BABA1 Overton East

LOCATION—Lat 40º43'43", long 99º27'29", NE ¼ NW ¼ NE1/4 NW ¼ sec. 26, T.9N, R.19W., Hydrologic Unit 10200101, 4 mi. east of Overton on U.S. Highway 30.

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 33 ft., perforated 18 to 33 ft.

DATUM—Altitude of land-surface datum is 2,297 ft. Measuring point: Top of shelf 3 ft. above land-surface datum.

PERIOD OF RECORD—April 1999 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 12.30 ft. below land-surface datum, July 8, 1999; lowest, 22.95 ft. below land-surface datum, Sept. 1, 2004.

STATION NUMBER 404343099272901 9N 19W26BABA1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.33	21.15	20.87	20.67	20.51	20.39	20.31	20.24	20.27	20.90	21.90	22.95
2	21.32	21.13	20.87	20.66	20.51	20.39	20.32	20.23	20.29	20.96	21.96	22.94
3	21.31	21.13	20.85	20.65	20.51	20.39	20.32	20.23	20.29	21.00	22.05	22.94
4	21.30	21.12	20.85	20.66	20.51	20.37	20.32	20.22	20.29	21.06	22.07	22.94
5	21.29	21.12	20.84	20.66	20.51	20.35	20.31	20.21	20.27	21.12	22.12	---
6	21.31	21.12	20.84	20.66	20.51	20.37	20.30	20.19	20.26	21.12	22.15	---
7	21.28	21.09	20.82	20.66	20.51	20.38	20.29	20.20	20.28	21.12	22.20	---
8	21.28	21.09	20.81	20.64	20.50	20.38	20.28	20.19	20.33	21.11	22.25	---
9	21.28	21.07	20.80	20.64	20.50	20.36	20.28	20.19	20.39	21.10	22.26	---
10	21.27	21.05	20.80	20.64	20.50	20.36	20.29	20.21	20.43	21.09	22.30	---
11	21.26	21.04	20.80	20.63	20.50	20.36	20.28	20.21	20.54	21.09	22.35	---
12	21.26	21.04	20.79	20.63	20.50	20.36	20.28	20.24	20.60	21.07	22.36	---
13	21.26	21.04	20.78	20.63	20.50	20.36	20.28	20.27	20.66	21.07	22.39	---
14	21.26	21.03	20.77	20.63	20.50	20.35	20.28	20.28	20.70	21.12	22.42	---
15	21.26	21.00	20.75	20.63	20.50	20.33	20.27	20.27	20.71	21.17	22.45	---
16	21.25	21.00	20.76	20.63	20.50	20.33	20.26	20.25	20.71	21.19	22.47	---
17	21.25	20.99	20.76	20.63	20.50	20.32	20.26	20.27	20.71	21.24	22.49	---
18	21.25	20.97	20.74	20.63	20.45	20.34	20.28	20.28	20.70	21.28	22.48	---
19	21.24	20.97	20.74	20.63	20.45	20.33	20.30	20.26	20.71	21.32	22.51	---
20	21.23	20.96	20.73	20.60	20.45	20.36	20.25	20.27	20.71	21.35	22.55	---
21	21.22	20.95	20.72	20.58	20.44	20.36	20.23	20.25	20.72	21.37	22.59	---
22	21.22	20.94	20.72	20.57	20.44	20.33	20.26	20.22	20.73	21.41	22.63	---
23	21.21	20.94	20.71	20.57	20.43	20.31	20.26	20.24	20.73	21.46	22.65	---
24	21.20	20.93	20.71	20.55	20.43	20.30	20.25	20.25	20.73	21.52	22.71	---
25	21.20	20.93	20.70	20.55	20.42	20.31	20.24	20.29	20.73	21.55	22.77	---
26	21.20	20.91	20.69	20.55	20.40	20.31	20.25	20.26	20.73	21.58	22.79	---
27	21.19	20.91	20.68	20.55	20.39	20.31	20.24	20.26	20.73	21.65	22.84	---
28	21.17	20.91	20.68	20.55	20.39	20.32	20.23	20.27	20.73	21.70	22.85	---
29	21.16	20.89	20.68	20.54	20.37	20.32	20.22	20.25	20.75	21.74	22.86	---
30	21.15	20.87	20.67	20.54	---	20.32	20.23	20.27	20.82	21.77	22.87	---
31	21.15	---	20.67	20.53	---	20.31	---	20.27	---	21.83	22.87	---
MEAN	21.24	21.01	20.76	20.61	20.47	20.34	20.27	20.24	20.57	21.29	22.46	---
MAX	21.33	21.15	20.87	20.67	20.51	20.39	20.32	20.29	20.82	21.83	22.87	---
MIN	21.15	20.87	20.67	20.53	20.37	20.30	20.22	20.19	20.26	20.90	21.90	---

DAWSON COUNTY

404717099460501 Local number 10N 22W 36DDDA1 Lexington Airport

LOCATION—Lat 40º47'17", long 99º46'05", NE ¼ SE ¼ SE ¼ SE ¼ sec. 36, T.10N., R.22W., Hydrologic Unit 10200101, ½ mi north of the intersection of U.S. Highway 30 in Lexington and Airport road west side of town.

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 5 in., depth 19.5 ft., perforated 15 to 19.5 ft.

DATUM—Altitude of land-surface datum is 2,402 ft. Measuring point: Top of shelf 3 ft. above land-surface datum.

PERIOD OF RECORD—September 1986 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 1.49 ft. below land-surface datum, July 25, 1993; lowest, 9.60 ft. below land-surface datum, July 1, 2, 2004.

STATION NUMBER 404717099460501 10N 22W36DDDA1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.33	8.70	8.69	8.78	8.85	8.71	8.70	8.86	9.20	9.60	8.06	7.12
2	8.35	8.69	8.69	8.78	8.86	8.67	8.72	8.87	9.21	9.60	8.21	7.18
3	8.37	8.69	8.68	8.78	8.86	8.68	8.73	8.88	9.23	9.57	8.27	7.15
4	8.40	8.65	8.68	8.79	8.86	8.68	8.73	8.90	9.24	8.63	8.10	7.18
5	8.42	8.66	8.68	8.79	8.86	8.67	8.77	8.93	9.24	8.27	8.19	7.31
6	8.47	8.67	8.68	8.80	8.86	8.67	8.81	8.96	9.25	8.21	8.20	7.43
7	8.48	8.67	8.67	8.80	8.87	8.66	8.84	8.99	9.28	8.47	8.16	7.51
8	8.51	8.68	8.67	8.82	8.87	8.66	8.85	9.02	9.30	8.57	8.22	7.58
9	8.53	8.68	8.67	8.81	8.87	8.65	8.87	9.02	9.33	8.03	8.16	7.66
10	8.55	8.68	8.66	8.81	8.87	8.65	8.87	9.01	9.34	7.80	8.18	7.74
11	8.55	8.69	8.66	8.82	8.87	8.64	8.86	9.01	9.33	7.79	8.15	7.81
12	8.53	8.69	8.67	8.82	8.87	8.64	8.85	9.03	9.33	7.84	8.13	7.85
13	8.54	8.69	8.69	8.82	8.87	8.63	8.84	9.05	9.34	7.86	8.11	7.91
14	8.54	8.69	8.70	8.82	8.87	8.64	8.84	9.06	9.35	7.68	7.92	7.96
15	8.56	8.69	8.71	8.82	8.87	8.64	8.85	9.06	9.36	7.60	7.73	7.96
16	8.58	8.70	8.72	8.82	8.87	8.63	8.86	9.06	9.37	7.52	7.72	7.97
17	8.59	8.70	8.71	8.82	8.88	8.63	8.86	9.06	9.38	7.39	7.66	7.97
18	8.60	8.70	8.72	8.82	8.88	8.62	8.86	9.06	9.38	7.25	7.62	7.97
19	8.61	8.71	8.73	8.83	8.86	8.62	8.86	9.05	9.37	7.25	7.56	7.98
20	8.63	8.71	8.73	8.83	8.81	8.62	8.86	9.05	9.37	7.30	7.49	7.99
21	8.64	8.71	8.74	8.83	8.80	8.61	8.87	9.07	9.37	7.42	7.36	8.00
22	8.65	8.71	8.74	8.83	8.81	8.63	8.87	9.10	9.38	7.54	7.11	8.00
23	8.66	8.72	8.74	8.83	8.82	8.64	8.86	9.11	9.40	7.63	7.26	7.77
24	8.67	8.72	8.75	8.83	8.82	8.69	8.85	9.14	9.41	7.66	7.31	7.78
25	8.67	8.72	8.75	8.83	8.83	8.74	8.79	9.15	9.43	7.58	7.33	7.80
26	8.67	8.71	8.75	8.84	8.83	8.76	8.80	9.15	9.46	7.56	7.31	7.83
27	8.69	8.71	8.75	8.84	8.83	8.76	8.81	9.17	9.47	7.64	7.30	7.86
28	8.70	8.70	8.76	8.84	8.83	8.72	8.84	9.18	9.51	7.62	7.23	7.87
29	8.70	8.70	8.77	8.85	8.83	8.73	8.86	9.18	9.54	7.74	7.14	7.87
30	8.70	8.69	8.77	8.85	---	8.71	8.86	9.18	9.58	7.95	7.00	7.87
31	8.70	---	8.77	8.85	---	8.71	---	9.18	---	8.04	6.98	---
MEAN	8.57	8.69	8.71	8.82	8.85	8.67	8.83	9.05	9.36	7.96	7.72	7.73
MAX	8.70	8.72	8.77	8.85	8.88	8.76	8.87	9.18	9.58	9.60	8.27	8.00
MIN	8.33	8.65	8.66	8.78	8.80	8.61	8.70	8.86	9.20	7.25	6.98	7.12

DAWSON COUNTY

404949099445701 Local number 10N 21W 18DDD Lexington

LOCATION—Lat 40º49'49", long 099º44'57", SE 1/4 SE 1/4 SE 1/4 sec. 18, T. 10 N., R. 21 W., Hydrologic Unit 10200101, 3.5 mi north of the intersection of Route 21 and U.S. Highway 30 in Lexington.

AQUIFER—Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 6 in., depth 120 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 2,420.58 ft. Measuring point: Top of casing 0.50 ft above land-surface datum.

REMARKS—Water levels in well affected by pumpage from nearby irrigation wells and by seepage from irrigation canals.

PERIOD OF RECORD—July 1964 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 6.20 ft below land-surface datum, July 24-25, 1993; lowest, 21.50 ft below land-surface datum, July 16, 1981.

STATION NUMBER 404949099445701 10N 21W18DDD 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.77	13.31	13.54	13.79	14.03	14.15	13.94	14.28	14.10	15.27	---	12.53
2	12.80	13.29	13.54	13.79	14.06	14.15	13.98	14.29	14.13	15.10	---	12.63
3	12.81	13.28	13.57	13.79	14.06	14.12	13.98	14.29	14.14	15.21	---	12.65
4	12.87	13.31	13.60	13.79	14.06	14.10	13.97	14.35	14.16	15.19	---	12.80
5	12.93	13.33	13.61	13.82	14.07	14.10	13.96	14.39	14.16	15.06	---	12.86
6	12.99	13.33	13.58	13.84	14.08	14.09	13.97	14.40	14.13	14.80	---	12.02
7	13.00	13.32	13.56	13.84	14.09	14.11	14.33	14.40	14.14	14.73	---	11.96
8	12.98	13.33	13.60	13.87	14.09	14.08	14.63	14.44	14.26	14.61	---	11.74
9	12.98	13.33	13.62	13.90	14.09	14.07	14.51	14.51	14.30	14.33	14.40	11.63
10	12.98	13.32	13.63	13.90	14.09	14.06	14.05	14.52	14.30	13.38	14.41	11.28
11	12.98	13.32	13.67	13.90	14.09	14.06	14.02	14.49	14.29	13.00	13.64	11.40
12	12.98	13.37	13.67	13.92	14.11	14.05	14.04	14.51	14.29	13.13	13.75	11.55
13	12.98	13.37	13.66	13.93	14.09	14.01	14.05	14.52	14.34	13.27	13.88	11.73
14	12.98	13.36	13.65	13.92	14.11	14.02	14.02	14.53	14.38	13.32	13.88	11.81
15	12.98	13.36	13.72	13.92	14.12	14.00	14.04	14.52	14.38	13.35	12.15	11.81
16	13.03	13.39	13.72	13.91	14.13	14.00	14.08	14.55	14.35	13.48	11.57	11.79
17	13.04	13.37	13.70	13.94	14.13	13.96	14.11	14.55	14.29	13.51	11.39	11.78
18	13.03	13.42	13.71	13.95	14.11	13.97	14.14	14.54	14.23	12.99	11.28	11.81
19	13.07	13.44	13.70	13.95	14.11	13.95	14.18	14.53	14.15	---	11.21	11.86
20	13.10	13.44	13.69	13.97	14.13	13.96	14.17	14.54	14.10	---	12.24	11.91
21	13.11	13.44	13.71	13.98	14.13	13.96	14.18	14.51	14.06	---	12.42	11.93
22	13.13	13.48	13.73	13.99	14.11	13.94	14.25	14.48	14.04	---	12.53	11.90
23	13.13	13.48	13.73	13.96	14.14	13.93	14.24	14.49	14.03	---	12.66	11.80
24	13.16	13.48	13.74	13.97	14.14	13.93	14.22	14.46	14.59	---	13.53	11.80
25	13.18	13.50	13.75	14.00	14.15	13.91	14.22	14.43	14.60	---	13.55	11.80
26	13.18	13.50	13.75	14.03	14.14	13.92	14.24	14.37	14.60	---	12.12	11.78
27	13.18	13.54	13.76	14.04	14.15	13.90	14.22	14.30	14.55	---	11.71	11.75
28	13.20	13.55	13.79	14.03	14.14	13.92	14.21	14.28	14.72	---	11.40	11.75
29	13.20	13.52	13.79	14.03	14.12	13.92	14.28	14.26	15.06	---	11.08	11.74
30	13.29	13.54	13.79	14.03	---	13.91	14.28	14.25	15.21	---	11.93	11.69
31	13.31	---	13.79	14.03	---	13.91	---	14.17	---	---	12.30	---
MEAN	13.04	13.40	13.68	13.93	14.11	14.01	14.15	14.42	14.34	---	---	11.92
MAX	13.31	13.55	13.79	14.04	14.15	14.15	14.63	14.55	15.21	---	---	12.86
MIN	12.77	13.28	13.54	13.79	14.03	13.90	13.94	14.17	14.03	---	---	11.28

DAWSON COUNTY

405014099591001 Local number 10N 23W 18CADA1 Cozad

LOCATION—Lat 40º50'14", long 99º59'10", NE ¼ SE ¼ NE ¼ SW ¼ sec. 18, T.10N., R.23W., Hydrologic Unit 10200101.

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS— Drilled observation water-table well, diameter 2 in, depth 20 ft., perforated 10 to 20 ft.

DATUM—Altitude of land-surface datum is 2,480 ft. Measuring point: top of casing, 3.10 ft. above land-surface datum.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 5.14 ft. below land-surface datum, Sept. 20, 1999; lowest, 9.26 ft. below land-surface datum, Aug. 31, 2000.

STATION NUMBER 405014099591001 10N 23W18CADA1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.21	8.10	7.92	7.96	7.87	7.61	7.84	8.26	8.70	8.59	---	8.54
2	8.20	8.09	7.93	7.92	7.88	7.58	7.85	8.12	8.72	8.56	---	8.42
3	8.21	8.06	7.95	7.87	7.90	7.56	7.85	8.37	8.73	8.59	---	8.54
4	8.22	8.02	7.95	8.09	7.95	7.56	7.86	8.43	8.74	8.59	---	8.47
5	8.23	8.03	8.06	8.05	7.96	7.58	7.85	8.45	8.74	8.50	---	8.57
6	8.23	8.03	8.08	8.13	7.94	7.61	7.85	8.47	8.75	8.59	---	8.64
7	8.23	8.03	8.04	7.96	7.94	7.63	7.86	8.40	8.76	8.61	---	8.68
8	8.22	8.03	7.93	7.87	7.94	7.65	7.87	8.36	8.76	8.61	---	8.70
9	8.21	8.03	7.92	7.94	7.93	7.67	7.95	8.39	8.75	8.61	---	8.72
10	8.21	8.01	7.95	7.97	7.91	7.69	8.03	8.44	8.75	8.39	---	8.74
11	8.20	8.01	7.96	7.96	7.93	7.72	8.00	8.45	8.59	8.44	---	8.75
12	8.16	8.02	8.03	7.93	7.93	7.74	7.92	8.43	8.39	8.48	---	8.76
13	8.15	8.02	8.05	7.91	7.96	7.76	7.89	8.45	8.49	---	---	8.76
14	8.16	8.01	7.96	7.87	7.98	7.77	7.91	8.45	8.55	---	---	8.30
15	8.16	8.00	7.93	7.85	7.96	7.87	7.88	8.44	8.64	---	---	8.21
16	8.15	8.01	7.97	7.83	7.94	7.79	7.81	8.41	8.51	---	---	8.09
17	8.15	8.00	7.98	7.80	7.95	7.80	7.81	8.50	8.23	---	---	8.09
18	8.15	8.00	7.94	7.79	7.92	7.80	7.83	8.55	8.20	---	---	8.01
19	8.15	8.00	7.94	7.89	7.84	7.80	7.88	8.58	8.21	---	---	8.04
20	8.14	8.00	7.96	7.96	7.74	7.81	7.89	8.60	8.24	---	---	8.04
21	8.14	8.00	7.90	7.96	7.75	7.82	8.00	8.61	8.25	---	---	8.05
22	8.14	8.00	7.89	7.87	7.70	7.81	8.02	8.64	8.58	---	---	8.04
23	8.13	8.15	7.92	7.87	7.69	7.81	7.92	8.65	8.64	---	---	7.66
24	8.14	8.14	7.93	7.86	7.73	7.82	7.91	8.57	8.65	---	---	7.64
25	8.15	8.10	7.93	7.91	7.77	7.82	7.82	8.51	8.66	---	---	7.68
26	8.14	8.05	7.91	8.05	7.78	7.82	7.82	8.53	8.66	---	---	7.72
27	8.14	8.04	7.90	8.00	7.77	7.81	7.84	8.57	8.66	---	8.44	7.76
28	8.12	8.04	7.94	7.94	7.78	7.80	7.88	8.64	8.65	---	8.47	7.78
29	8.11	8.02	7.98	7.87	7.78	7.81	7.93	8.66	8.57	---	8.48	7.79
30	8.11	7.91	7.98	7.86	---	7.83	7.96	8.67	8.58	---	8.55	7.79
31	8.10	---	7.96	7.83	---	7.84	---	8.65	---	---	8.61	---
MAX	8.23	8.15	8.08	8.13	7.98	7.87	8.03	8.67	8.76	---	---	8.76
MIN	8.10	7.91	7.89	7.79	7.69	7.56	7.81	8.12	8.20	---	---	7.64

DAWSON COUNTY

405445100074001 Local number 11N 25W 24BCB1 Gothenburg

LOCATION—Lat 40º54' 44", long 100º07' 42.2", NW ¼ SW ¼ NW ¼ sec. 24, T.11N., R.25W., Hydrologic Unit 10200101, 1 mi. east of Gothenburg on Highway 30.

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 5 in., depth 23 ft., perforated 13 to 23 ft.

DATUM—Altitude of land-surface datum is 2,545 ft. Measuring point: Top of casing 1.60 ft., above land-surface datum.

PERIOD OF RECORD—June 1988 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 2.62 ft. below land-surface datum, May 28, 1995; lowest, 6.26 ft. below land-surface datum, Sept. 14, 2004.

STATION NUMBER 405445100074001 11N 25W24BCB 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.19	6.05	5.61	5.27	5.09	4.57	4.74	4.73	5.09	5.60	5.48	5.79
2	6.19	6.05	5.61	5.27	5.08	4.56	4.77	4.80	5.17	5.40	5.49	5.88
3	6.19	5.94	5.61	5.27	5.08	4.56	4.78	4.84	5.22	5.43	5.49	5.97
4	6.18	5.91	5.61	5.28	5.07	4.55	4.78	4.90	5.27	5.37	5.59	6.05
5	6.19	5.90	5.56	5.28	5.06	4.54	4.82	4.96	5.36	5.36	5.65	6.05
6	6.20	5.89	5.55	5.28	5.05	4.53	4.84	5.02	5.42	5.26	5.70	6.07
7	6.20	5.88	5.53	5.29	5.04	4.52	4.87	5.10	5.49	5.31	5.73	6.09
8	6.19	5.86	5.50	5.30	5.04	4.51	4.89	5.16	5.55	5.42	5.77	6.14
9	6.18	5.85	5.49	5.30	5.02	4.51	4.90	5.21	5.59	5.04	5.80	6.17
10	6.18	5.84	5.48	5.29	5.01	4.52	4.91	5.23	5.60	4.88	5.80	6.18
11	6.18	5.81	5.43	5.29	4.96	4.53	4.92	5.27	5.59	4.84	5.78	6.21
12	6.15	5.79	5.42	5.27	4.96	4.54	4.93	5.29	5.59	4.93	5.84	6.23
13	6.15	5.80	5.39	5.26	4.95	4.55	4.97	5.29	5.60	5.01	5.90	6.25
14	6.15	5.80	5.36	5.24	4.93	4.56	4.94	5.31	5.65	5.10	5.90	6.26
15	6.13	5.78	5.34	5.23	4.92	4.57	4.97	5.31	5.71	5.20	5.88	6.14
16	6.13	5.78	5.33	5.20	4.92	4.58	4.98	5.29	5.61	5.29	5.90	6.10
17	6.10	5.76	5.31	5.20	4.89	4.59	5.00	5.29	5.53	5.38	5.93	6.10
18	6.09	5.74	5.30	5.19	4.88	4.60	5.02	5.29	5.51	5.45	5.96	6.11
19	6.10	5.74	5.30	5.18	4.81	4.61	5.08	5.28	5.45	5.54	6.00	6.13
20	6.10	5.72	5.30	5.18	4.77	4.62	5.08	5.31	5.42	5.64	6.04	6.13
21	6.10	5.72	5.29	5.17	4.75	4.63	4.87	5.35	5.34	5.71	6.08	6.13
22	6.10	5.72	5.29	5.16	4.74	4.64	4.88	5.39	5.36	5.76	6.11	6.11
23	6.10	5.72	5.29	5.14	4.73	4.65	4.79	5.38	5.39	5.78	6.10	5.19
24	6.10	5.72	5.29	5.14	4.72	4.66	4.77	5.42	5.41	5.78	6.10	4.73
25	6.10	5.69	5.29	5.13	4.72	4.68	4.48	5.42	5.46	5.80	5.96	4.89
26	6.10	5.64	5.28	5.13	4.71	4.69	4.52	5.40	5.46	5.85	5.80	5.02
27	6.10	5.64	5.26	5.12	4.69	4.69	4.55	5.39	5.45	5.90	5.76	5.12
28	6.07	5.64	5.26	5.12	4.68	4.70	4.63	5.41	5.49	5.90	5.73	5.15
29	6.07	5.63	5.27	5.11	4.65	4.71	4.65	5.45	5.56	5.64	5.71	5.17
30	6.05	5.61	5.27	5.11	---	4.72	4.68	5.06	5.60	5.62	5.74	5.20
31	6.05	---	5.27	5.09	---	4.73	---	5.05	---	5.48	5.77	---
MEAN	6.13	5.79	5.39	5.21	4.89	4.60	4.83	5.21	5.46	5.44	5.82	5.83
MAX	6.20	6.05	5.61	5.30	5.09	4.73	5.08	5.45	5.71	5.90	6.11	6.26
MIN	6.05	5.61	5.26	5.09	4.65	4.51	4.48	4.73	5.09	4.84	5.48	4.73

DAWSON COUNTY

410154099394701 Local number 12N 21W 12BAAA Eddyville

LOCATION—Lat 41º01'54", long 99º39'47", NE ¼ NE ¼ NE ¼ NW ¼ sec.12, T.12N, R.21W., Hydrologic Unit 10200102, 2 mi. northwest of Eddyville on Highway 40.

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 5 in., depth 98 ft., perforated 78 to 98 ft.

DATUM—Altitude of land-surface datum is 2,462 ft. Measuring point: Top of shelf 3' above land-surface datum.

PERIOD OF RECORD—July 1989 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 38.45 ft. below land-surface datum, June 12, 1997; lowest, 59.00 ft. below land-surface datum, Sept. 1, 2004.

STATION NUMBER 410154099394701 12N 21W12BAAA1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.99	49	48	48	47	47	46	45	45	52	50	59
2	49.93	49	48	48	47	47	46	45	45	52	54	58
3	49.88	49	48	48	47	47	46	45	45	47	56	56
4	49.87	49	48	48	47	47	46	45	45	46	57	55
5	49.83	49	48	48	47	47	46	45	45	45	54	55
6	50	49	48	48	47	47	46	45	45	45	52	53
7	50	49	48	48	47	47	46	45	45	44	52	57
8	50	49	48	48	47	47	46	45	45	44	50	57
9	50	49	48	48	47	47	46	45	46	44	53	56
10	50	49	48	48	47	47	46	46	45	44	54	53
11	50	49	48	48	47	47	46	47	46	43	54	53
12	50	49	48	48	47	47	46	47	46	43	53	51
13	50	49	48	48	47	47	46	47	46	48	53	51
14	50	48	48	48	47	47	46	46	46	50	52	51
15	50	48	48	47	47	47	46	46	46	48	51	51
16	50	48	48	47	47	47	46	45	46	45	50	51
17	50	48	48	47	47	47	46	45	46	45	49	50
18	49	48	48	47	47	47	46	45	46	45	51	50
19	49	48	48	47	47	47	46	45	46	51	52	50
20	49	48	48	47	47	47	46	45	45	54	53	50
21	49	48	48	47	47	47	46	45	45	55	50	50
22	49	48	48	47	47	46	46	45	45	52	50	50
23	49	48	48	47	47	46	46	45	44	51	51	50
24	49	48	48	47	47	46	46	45	44	50	52	50
25	49	48	48	47	47	46	46	45	44	48	49	50
26	49	48	48	47	47	46	46	45	44	54	49	50
27	49	48	48	47	47	46	45	45	44	56	48	50
28	49	48	48	47	47	46	45	45	49	56	48	50
29	49	48	48	47	47	46	45	45	51	56	48	49
30	49	48	48	47	---	46	45	45	52	53	53	49
31	49	---	48	47	---	46	---	45	---	50	58	---
MEAN	49.53	48.43	48.00	47.45	47.00	46.68	45.87	45.29	45.73	48.90	51.81	52.17
MAX	50.00	49.00	48.00	48.00	47.00	47.00	46.00	47.00	52.00	56.00	58.00	59.00
MIN	49.00	48.00	48.00	47.00	47.00	46.00	45.00	45.00	44.00	43.00	48.00	49.00

DUNDY COUNTY

400155101521302 Local number 1N 40W 29BB2 Haigler

LOCATION—Lat 40º01'55", long 101°52'13", NW 1/4 NW 1/4 sec. 29, T. 1 N., R. 40 W., Hydrologic Unit 10250002, 3.5 mi east of Haigler on U.S. Highway 34 and 0.5 mi north. Well is within 0.5 mi of Republican River.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 6 in., depth 48.8 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 3,205 ft. Measuring point: South side of casing 1.6 ft above land-surface datum.

REMARKS—Replacement for well 400155101521301, local number 1N 40W 29BB1 with period of record from May 1946 to June 1975. Water levels in well are affected by pumping from nearby irrigation wells, evapotranspiration, and changes in stage of Republican River.

PERIOD OF RECORD—October 1974 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 15.41 ft below land-surface datum, June 21, 1984; lowest, 31.67 ft below land-surface datum, Aug. 12 and 13, 2002.

STATION NUMBER 400155101521302 1N 40W29BB2

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.05	23.18	22.06	21.34	20.83	20.59	24.36	20.11	24.58	20.75	26.92	27.35
2	23.90	23.06	21.95	21.31	20.84	20.60	24.36	20.07	25.40	20.75	27.80	28.52
3	23.77	22.97	21.95	21.30	20.81	20.51	24.24	20.05	22.46	20.73	28.47	29.21
4	23.71	22.92	21.95	21.31	20.79	20.47	24.43	20.06	25.14	20.74	28.64	29.40
5	23.63	22.88	21.91	21.31	20.81	20.50	25.09	20.03	25.44	20.71	24.39	25.91
6	23.57	22.83	21.84	21.27	20.81	20.52	25.28	23.59	22.13	20.72	27.35	24.47
7	23.52	22.77	21.80	21.20	20.78	20.53	21.83	24.81	21.76	20.66	28.30	27.39
8	23.47	22.74	21.80	21.23	20.80	20.47	21.53	24.81	24.90	20.67	28.80	28.80
9	23.55	22.69	21.80	21.22	20.79	20.47	21.32	21.56	22.50	20.67	28.92	29.36
10	23.61	22.61	21.77	21.19	20.77	20.49	21.17	21.27	21.72	20.78	29.30	29.63
11	23.52	22.59	21.73	21.16	20.76	20.47	21.03	21.11	21.54	20.80	29.44	28.69
12	23.50	22.60	21.72	21.16	20.76	20.41	20.94	21.06	21.43	20.87	29.63	29.59
13	23.59	22.54	21.69	21.15	20.70	20.46	20.88	20.89	21.33	20.88	29.13	29.96
14	23.52	22.44	21.65	21.12	20.70	20.46	20.79	20.80	21.26	23.71	24.93	30.31
15	23.58	22.43	21.71	21.08	20.69	20.40	20.73	20.70	21.23	24.81	24.11	29.02
16	23.48	22.41	21.70	21.09	20.71	20.36	20.47	20.65	21.20	24.24	27.16	26.09
17	23.36	22.38	21.63	21.08	20.70	20.37	20.44	20.71	21.14	21.85	28.74	25.14
18	23.29	22.39	21.63	21.06	20.66	20.39	20.42	20.73	21.11	24.85	29.17	24.74
19	23.23	22.36	21.58	21.02	20.66	20.37	20.42	20.74	21.07	25.89	29.32	24.47
20	23.18	22.31	21.53	21.01	20.67	20.42	20.30	24.14	21.01	26.49	28.22	24.18
21	26.80	22.29	21.53	21.01	20.65	20.39	20.28	24.31	20.96	23.48	28.39	23.98
22	28.19	22.24	21.53	21.01	20.64	20.32	20.28	21.28	20.94	22.25	29.07	23.80
23	28.66	22.23	21.51	20.92	20.63	20.31	20.27	21.04	20.92	21.93	29.52	23.66
24	25.11	22.19	21.47	20.92	20.62	20.32	20.22	20.89	20.91	21.75	29.61	23.58
25	24.09	22.15	21.45	20.94	20.60	20.30	20.21	24.05	20.90	21.56	27.07	23.46
26	23.74	22.14	21.42	20.94	20.57	20.29	20.21	25.30	20.85	21.40	29.13	23.34
27	23.51	22.15	21.41	20.92	20.58	20.29	20.16	25.64	20.84	25.45	29.41	23.23
28	23.38	22.11	21.41	20.90	20.54	20.32	20.11	25.67	20.83	26.35	29.63	23.18
29	26.98	22.00	21.40	20.90	20.52	20.31	20.17	26.10	20.79	27.19	29.65	23.06
30	24.15	22.06	21.39	20.84	---	23.61	20.15	22.70	20.78	27.54	25.49	22.96
31	23.39	---	21.38	20.83	---	24.26	---	22.19	---	24.15	24.39	---
MEAN	24.16	22.49	21.65	21.09	20.70	20.64	21.40	22.16	21.90	22.73	28.07	26.22
MAX	28.66	23.18	22.06	21.34	20.84	24.26	25.28	26.10	25.44	27.54	29.65	30.31
MIN	23.18	22.00	21.38	20.83	20.52	20.29	20.11	20.03	20.78	20.66	24.11	22.96

DUNDY COUNTY

400852101352701 Local number 2N 38W 10DD1 Benkelman

LOCATION—Lat 40º08'52", long 10º13'52", SE ¼ SE ¼ sec. 10, T.2N., R.38W., Hydrologic Unit 10250004.

AQUIFER.—Ogallala Formation of Tertiary age.

WELL CHARACTERISTICS.—Drilled observation water-table well, diameter 5 in., depth 180 ft., screened 160 to 180 ft.

DATUM—Altitude of land-surface datum is 3,265 ft. Measuring point: Top of casing 1.5 ft above land-surface datum.

PERIOD OF RECORD.—Sept. 1972 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 85.16 ft. below land-surface datum, Sept. 28, 1972; lowest, 133.78 ft below land-surface datum, Sept. 13, 2004.

STATION NUMBER 400852101352701 2N 38W10DD 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131.42	130.40	129.70	129.08	128.65	128.32	127.92	127.67	128.58	129.40	131.13	133.19
2	131.36	130.35	129.62	129.06	128.66	128.31	127.93	127.63	128.60	129.43	131.27	133.31
3	131.32	130.34	129.61	129.05	128.65	128.26	127.92	127.62	128.58	129.43	131.35	133.38
4	131.32	130.30	129.64	129.06	128.59	128.24	127.90	127.70	128.54	129.44	131.46	133.38
5	131.28	130.30	129.62	129.06	128.60	128.25	127.87	127.80	128.47	129.42	131.47	133.36
6	131.25	130.28	129.56	129.05	128.60	128.25	127.87	127.94	128.54	129.42	131.54	133.31
7	131.22	130.26	129.51	128.98	128.59	128.25	127.87	127.99	128.71	129.45	131.69	133.40
8	131.15	130.23	129.50	128.99	128.59	128.20	127.87	127.99	128.89	129.63	131.78	133.49
9	131.15	130.22	129.50	128.98	128.59	128.20	127.86	127.99	128.89	129.70	131.82	133.56
10	131.09	130.14	129.49	128.97	128.55	128.17	127.86	128.02	128.83	129.78	131.91	133.56
11	131.13	130.14	129.43	128.93	128.54	128.15	127.85	128.00	128.83	129.76	131.98	133.59
12	131.07	130.14	129.43	128.93	128.54	128.12	127.86	128.21	128.88	129.79	132.11	133.71
13	131.02	130.13	129.42	128.92	128.48	128.13	127.84	128.26	128.91	129.92	132.13	133.78
14	131.01	130.04	129.38	128.91	128.49	128.13	127.81	128.25	129.11	130.02	132.25	133.75
15	130.90	130.04	129.40	128.90	128.48	128.10	127.81	128.22	129.14	130.34	132.45	133.73
16	130.89	130.04	129.40	128.86	128.47	128.08	127.80	128.20	129.16	130.29	132.44	133.70
17	130.88	129.96	129.36	128.86	128.47	128.06	127.79	128.20	129.16	130.26	132.48	133.64
18	130.81	129.98	129.36	128.85	128.43	128.07	127.82	128.19	129.16	130.28	132.50	133.63
19	130.80	129.94	129.32	128.85	128.41	128.07	127.82	128.14	129.15	130.33	132.56	133.56
20	130.75	129.92	129.27	128.82	128.42	128.11	127.70	128.14	129.11	130.46	132.65	133.50
21	130.74	129.92	129.23	128.82	128.41	128.09	127.71	128.13	129.04	130.62	132.75	133.50
22	130.72	129.85	129.24	128.80	128.38	127.97	127.74	128.31	129.03	130.63	132.76	133.46
23	130.62	129.85	129.23	128.74	128.38	127.97	127.74	128.31	129.03	130.62	132.78	133.38
24	130.65	129.84	129.18	128.74	128.35	127.96	127.71	128.34	129.04	130.62	132.93	133.38
25	130.62	129.75	129.17	128.76	128.35	127.95	127.71	128.34	129.03	130.62	133.00	133.35
26	130.59	129.75	129.17	128.76	128.34	127.95	127.70	128.32	129.04	130.62	132.96	133.29
27	130.51	129.75	129.13	128.74	128.33	127.92	127.67	128.37	129.23	130.61	132.96	133.24
28	130.51	129.74	129.13	128.70	128.30	127.96	127.63	128.48	129.35	130.69	132.99	133.24
29	130.47	129.66	129.13	128.71	128.27	127.95	127.73	128.65	129.40	130.83	133.09	133.16
30	130.47	129.70	129.12	128.67	---	127.95	127.70	128.61	129.40	130.92	133.17	133.10
31	130.46	---	129.12	128.65	---	127.90	---	128.60	---	131.00	133.17	---
MEAN	130.91	130.03	129.37	128.88	128.48	128.10	127.80	128.15	128.96	130.14	132.31	133.45
MAX	131.42	130.40	129.70	129.08	128.66	128.32	127.93	128.65	129.40	131.00	133.17	133.78
MIN	130.46	129.66	129.12	128.65	128.27	127.90	127.63	127.62	128.47	129.40	131.13	133.10

DUNDY COUNTY

401703101394801 Local number 4N 38W 30BCC1 Enders

LOCATION—Lat 40º17'09", long 101º39'46", SW ¼ SW ¼ NW ¼ sec. 30, T.4N., R.38W., Hydrologic Unit 10250004.

AQUIFER—Ogallala Formation of Tertiary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 5 in., depth 180 ft., screened 160 to 180 ft.

DATUM—Altitude of land-surface datum is 3,317 ft. Measuring point: Top of casing 1.40 ft. above land-surface datum.

PERIOD OF RECORD—Jan. 1985 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 53.89 ft. below land-surface datum, Apr. 9, 1985; lowest, 75.58 ft. below land-surface datum, Sept. 14, 15, 2004.

STATION NUMBER 401703101394801 4N 38W30BCC 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73.59	73.12	72.92	72.65	72.48	72.48	72.30	72.30	73.08	73.54	74.35	75.32
2	73.56	73.13	72.86	72.64	72.50	72.46	72.35	72.44	73.07	73.59	74.47	75.27
3	73.57	73.08	72.85	72.64	72.42	72.38	72.32	72.41	73.13	73.54	74.59	75.31
4	73.52	73.11	72.91	72.68	72.45	72.34	72.24	72.51	73.22	73.58	74.59	75.30
5	73.49	73.11	72.85	72.67	72.49	72.43	72.26	72.51	73.15	73.59	74.64	75.24
6	73.49	73.08	72.76	72.61	72.48	72.47	72.28	72.52	73.14	73.59	74.68	75.27
7	73.46	73.07	72.77	72.56	72.45	72.45	72.29	72.53	73.25	73.51	74.72	75.36
8	73.44	73.06	72.83	72.63	72.52	72.41	72.28	72.60	73.32	73.77	74.71	75.37
9	73.43	73.03	72.83	72.60	72.48	72.39	72.29	72.61	73.25	73.79	74.67	75.41
10	73.44	73.03	72.78	72.57	72.46	72.45	72.28	72.61	73.43	73.82	74.66	75.43
11	73.51	73.04	72.79	72.57	72.51	72.39	72.26	72.58	73.51	73.82	74.72	75.38
12	73.38	73.11	72.77	72.57	72.48	72.32	72.28	72.65	73.51	73.86	74.80	75.40
13	73.45	73.02	72.75	72.55	72.40	72.46	72.22	72.63	73.45	73.90	74.84	75.54
14	73.38	72.97	72.71	72.54	72.45	72.43	72.18	72.58	73.51	73.96	74.88	75.58
15	73.35	72.96	72.85	72.50	72.42	72.38	72.27	72.60	73.44	74.20	74.95	75.58
16	73.37	72.95	72.82	72.57	72.48	72.31	72.26	72.78	73.44	74.07	74.91	75.46
17	73.34	72.99	72.80	72.55	72.44	72.37	72.25	72.83	73.41	74.07	74.92	75.41
18	73.29	73.01	72.78	72.54	72.39	72.39	72.38	72.84	73.40	74.18	74.99	75.35
19	73.26	72.98	72.73	72.50	72.45	72.41	72.38	72.75	73.36	74.25	75.01	75.33
20	73.29	72.99	72.69	72.51	72.47	72.47	72.22	72.80	73.33	74.39	75.02	75.28
21	73.26	72.96	72.73	72.52	72.43	72.38	72.24	72.74	73.31	74.39	75.00	75.28
22	73.24	72.95	72.75	72.52	72.44	72.29	72.27	72.77	73.29	74.39	74.99	75.21
23	73.21	72.95	72.69	72.48	72.43	72.30	72.26	72.75	73.34	74.38	75.09	75.18
24	73.29	72.90	72.66	72.47	72.41	72.30	72.22	72.83	73.50	74.36	75.14	75.18
25	73.27	72.90	72.71	72.54	72.40	72.30	72.26	72.95	73.48	74.33	75.16	75.15
26	73.20	72.95	72.65	72.53	72.36	72.29	72.26	73.12	73.42	74.32	75.22	75.10
27	73.20	72.96	72.67	72.49	72.43	72.33	72.19	73.17	73.42	74.35	75.20	75.12
28	73.20	72.90	72.69	72.49	72.38	72.37	72.22	73.11	73.41	74.38	75.19	75.09
29	73.21	72.85	72.65	72.53	72.36	72.34	72.30	73.14	73.36	74.38	75.25	74.99
30	73.22	72.94	72.72	72.41	---	72.33	72.23	73.09	73.43	74.43	75.35	74.98
31	73.22	---	72.68	72.47	---	72.27	---	73.08	---	74.33	75.34	---
MEAN	73.36	73.00	72.76	72.55	72.44	72.38	72.27	72.74	73.35	74.03	74.90	75.30
MAX	73.59	73.13	72.92	72.68	72.52	72.48	72.38	73.17	73.51	74.43	75.35	75.58
MIN	73.20	72.85	72.65	72.41	72.36	72.27	72.18	72.30	73.07	73.51	74.35	74.98

HALL COUNTY

404513098181201 Local number 9N 9W 14AAB1 Doniphan Deep

LOCATION—Lat 40º45'13", long 98º18'12", NW ¼ NE ¼ NE ¼ sec. 14, T.9N., R.9W., Hydrologic Unit 10270203, 4 mi. east of the intersection of U.S. Highway 281 and Doniphan, 1 mi. south and ¼ mi west.

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 6in., depth 150 ft., perforated 120 to 150 ft.

DATUM—Altitude of land-surface datum is 1,915 ft. Measuring point: Top of casing 1.50 ft. above land-surface datum.

PERIOD OF RECORD—June 1967 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 48.44 ft. below land-surface datum, May 11, 2000; lowest, 71.96 ft. below land-surface datum, Aug. 4, 2004.

STATION NUMBER 404513098181201 9N 9W14AAB 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65.20	---	64.24	63.61	63.11	62.97	62.30	62.17	63.75	66.58	67.79	70.85
2	65.14	---	64.18	63.54	63.16	62.98	62.40	62.13	63.92	66.58	69.74	71.03
3	65.56	---	63.98	63.54	63.15	62.86	62.39	62.09	64.09	63.12	70.98	---
4	65.54	---	64.05	63.59	63.08	62.71	62.31	61.99	64.04	62.69	71.16	---
5	65.06	---	64.06	63.64	63.06	62.73	62.23	61.98	62.14	62.59	---	---
6	65.06	---	63.96	63.63	63.11	62.83	62.24	62.63	63.74	62.58	---	---
7	65.08	---	63.75	63.52	63.12	62.88	62.20	62.81	64.53	62.49	---	---
8	65.01	---	63.91	63.53	63.09	62.79	62.28	62.86	66.37	62.33	---	---
9	65.00	---	63.93	63.54	63.09	62.70	62.26	62.22	66.14	62.41	---	---
10	64.94	---	63.90	63.46	63.08	62.70	62.31	62.14	65.67	62.39	---	---
11	65.06	---	63.87	63.38	63.12	62.70	62.22	62.02	65.68	62.28	---	---
12	65.04	---	63.87	63.45	63.12	62.64	62.22	62.09	64.30	62.26	---	---
13	64.94	---	63.79	63.43	63.03	62.67	62.19	62.14	64.26	62.26	---	---
14	64.94	---	63.71	63.33	62.99	62.68	62.12	62.13	62.59	62.28	---	---
15	64.86	---	63.93	63.33	62.99	62.60	63.34	62.03	62.37	62.19	---	---
16	64.91	---	63.98	63.31	62.97	62.56	64.01	61.93	62.32	62.37	---	---
17	64.91	---	63.85	63.35	62.97	62.46	64.01	61.96	62.32	62.69	---	---
18	64.77	---	63.86	63.38	62.89	62.63	62.98	61.96	62.28	63.96	---	---
19	64.77	---	63.81	63.33	62.77	62.56	62.55	61.89	62.28	64.85	---	---
20	66.22	---	63.72	63.28	62.94	62.76	62.34	61.94	62.07	67.25	---	---
21	66.38	64.24	63.66	63.30	62.92	62.72	62.23	61.85	62.00	69.16	71.96	---
22	66.32	64.15	63.73	63.34	62.87	62.60	62.30	61.79	62.00	69.61	71.89	---
23	65.69	64.22	63.70	63.22	62.91	62.59	62.32	61.90	61.98	69.41	71.73	---
24	66.09	64.22	63.65	63.22	62.88	62.37	62.19	61.91	62.07	69.01	71.90	---
25	66.13	64.06	63.59	63.18	62.83	62.40	62.19	61.94	62.05	65.96	71.72	---
26	66.36	64.07	63.59	63.30	62.76	62.43	62.20	61.84	61.97	66.48	71.87	---
27	---	64.25	63.55	63.30	62.72	62.37	62.14	61.82	62.07	67.47	71.66	---
28	---	64.23	63.63	63.26	62.70	62.49	61.98	61.85	62.49	69.04	71.18	---
29	---	64.08	63.63	63.20	62.65	62.49	62.22	61.72	62.73	69.04	71.17	---
30	---	64.24	63.61	63.19	---	62.42	62.21	61.82	65.21	67.56	70.96	---
31	---	---	63.68	63.06	---	62.37	---	63.50	---	66.97	70.92	---
MEAN	---	---	63.82	63.38	62.97	62.63	62.43	62.10	63.31	65.03	---	---
MAX	---	---	64.24	63.64	63.16	62.98	64.01	63.50	66.37	69.61	---	---
MIN	---	---	63.55	63.06	62.65	62.37	61.98	61.72	61.97	62.19	---	---

404513098181202 Local number 9N 9W 14AAB2 Doniphan Shallow

LOCATION—Lat 40º45'13", long 98º18'12", NE ¼ NE ¼ NW ¼ sec. 14, T.9N., R.9W., Hydrologic Unit 10270203, 4 mi. east of the intersection of U.S. Highway 281 and Doniphan, 1 mi. south and ¼ mi west.

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 5 in., depth 79 ft., perforated 59 to 79 ft.

DATUM—Altitude of land-surface datum is 1,915 ft. Measuring point: Top of shelf 3 ft. above land-surface datum.

PERIOD OF RECORD—Oct. 1986 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 48.29 ft. below land-surface datum, May 11, 2000; lowest, 66.66 ft. below land-surface datum, Sept. 10, 2004.

STATION NUMBER 404513098181202 9N 9W14AAB 2

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64.14	63.76	63.52	---	---	62.64	---	61.94	61.88	---	63.99	66.40
2	64.12	63.69	63.50	---	---	62.62	---	61.89	62.01	62.45	64.17	66.46
3	64.13	63.68	63.50	---	---	62.51	---	61.87	62.04	62.32	64.45	66.50
4	64.14	63.64	63.48	---	---	62.39	---	61.83	62.03	62.22	64.65	66.50
5	64.14	63.64	63.48	---	---	62.48	---	61.82	61.87	62.26	64.74	66.56
6	64.15	63.64	63.48	---	---	62.52	---	61.87	61.83	62.24	64.81	66.57
7	64.16	63.62	63.28	---	---	62.52	---	61.90	62.12	62.16	64.88	66.56
8	64.17	63.62	63.28	---	---	62.45	---	61.91	62.37	62.15	64.96	66.62
9	64.18	63.61	63.31	---	---	62.40	---	61.89	62.46	---	64.97	66.64
10	64.18	63.59	63.29	---	62.73	62.40	---	61.89	62.41	---	65.04	66.66
11	64.04	63.55	63.29	---	62.72	62.40	---	61.80	62.49	---	65.07	---
12	63.99	63.63	63.29	---	62.72	62.35	---	61.90	62.57	---	65.15	---
13	63.96	---	63.29	---	62.66	62.40	---	62.01	62.56	---	65.20	---
14	63.93	---	63.28	---	62.65	62.40	---	61.87	62.48	---	65.27	---
15	63.89	---	63.32	---	62.62	62.32	62.01	61.83	62.37	---	65.36	---
16	63.94	---	---	---	62.62	62.31	62.17	61.74	62.31	---	65.43	---
17	63.91	---	---	---	62.62	62.22	62.17	61.81	62.30	---	65.46	---
18	63.83	---	---	---	62.57	62.34	62.21	61.78	62.28	---	65.60	---
19	63.82	---	---	---	62.48	62.31	62.23	61.69	---	---	65.61	---
20	63.85	---	---	---	62.60	62.41	62.15	61.80	---	62.49	65.73	---
21	63.94	63.45	---	---	62.58	62.39	62.03	61.67	---	62.90	65.81	---
22	63.93	63.44	---	---	62.52	---	62.08	61.68	---	63.28	65.91	---
23	63.93	63.46	---	---	62.55	---	62.08	61.72	---	63.45	65.98	---
24	63.88	63.46	---	---	62.51	---	61.98	61.75	---	63.51	66.06	---
25	63.88	63.42	---	---	62.47	---	62.02	61.80	---	63.48	66.12	---
26	63.87	63.42	---	---	62.42	---	62.01	61.67	---	63.42	66.23	---
27	63.79	63.52	---	---	62.40	---	61.92	61.66	---	63.56	66.29	---
28	63.79	63.52	---	---	62.40	---	62.02	61.66	---	63.79	66.29	---
29	63.78	63.50	---	---	62.37	---	62.03	61.60	---	63.85	66.29	---
30	63.76	63.52	---	---	---	---	61.98	61.67	---	63.92	66.33	---
31	63.80	---	---	---	---	---	---	61.72	---	63.95	66.38	---
MEAN	63.97	---	---	---	---	---	---	61.79	---	---	65.43	---
MAX	64.18	---	---	---	---	---	---	62.01	---	---	66.38	---
MIN	63.76	---	---	---	---	---	---	61.60	---	---	63.99	---

HALL COUNTY

405315098304302 Local number 11N 11W 25CC2 Alda

LOCATION—Lat 40°53'15", long 098°30'43", SW 1/4 SW 1/4 sec. 25, T. 11 N., R. 11 W., Hydrologic Unit 10200103, 1.0 mi north and 2.0 mi west of Alda.

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 6 in., depth 65 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,924.0 ft. Measuring point: Top of casing 2.00 ft above land-surface datum.

REMARKS—Replacement for 405315098304301, local number 11N 11W 25`CC, period of record October 1946 to November 1977. Water levels in wells affected by pumping from nearby wells during irrigation season.

PERIOD OF RECORD—April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 11.12 ft below land-surface datum, June 27, 29, 1999; lowest, 25.98 ft below land-surface datum, Aug. 31, 1981.

STATION NUMBER 405315098304302 11N 11W25CC 2

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	23.54	23.53	23.45	23.38	23.30	23.21	23.16	23.20	23.71	24.27	25.06
2	---	23.56	23.53	23.45	23.38	23.30	23.21	23.16	23.20	23.77	24.30	25.09
3	---	23.56	23.52	23.45	23.37	23.30	23.21	23.15	23.21	23.83	24.32	25.13
4	---	23.56	23.52	23.45	23.37	23.28	23.21	23.15	23.22	23.84	24.36	25.16
5	---	23.57	23.52	23.45	23.37	23.28	23.21	23.15	23.22	23.87	24.40	25.21
6	---	23.57	23.52	23.45	23.36	23.28	23.20	23.17	23.22	23.88	24.45	25.24
7	---	23.57	23.51	23.45	23.36	23.28	23.20	23.17	23.21	23.90	24.50	25.27
8	---	23.57	23.50	23.45	23.36	23.27	23.20	23.17	23.22	23.91	24.53	25.29
9	---	23.57	23.49	23.44	23.35	23.26	23.20	23.18	23.22	23.92	24.55	25.31
10	---	23.55	23.49	23.44	23.35	23.26	23.20	23.18	23.23	23.91	24.57	25.32
11	23.53	23.55	23.50	23.44	23.34	23.26	23.19	23.18	23.23	23.91	24.59	25.33
12	23.53	23.55	23.49	23.44	23.35	23.26	23.19	23.19	23.23	23.93	24.60	25.35
13	23.54	23.55	23.49	23.43	23.34	23.25	23.19	23.21	23.24	23.91	24.63	25.36
14	23.54	23.54	23.49	23.42	23.34	23.25	23.19	23.21	23.26	23.92	24.64	25.37
15	23.54	23.53	23.49	23.42	23.34	23.25	23.18	23.22	23.31	23.91	24.65	25.38
16	23.54	23.53	23.50	23.41	23.34	23.25	23.18	23.21	23.37	23.90	24.68	25.39
17	23.55	23.52	23.50	23.41	23.33	23.24	23.17	23.21	23.42	23.91	24.69	25.40
18	23.55	23.52	23.50	23.41	23.33	23.24	23.17	23.22	23.46	23.93	24.72	25.41
19	23.55	23.52	23.49	23.41	23.32	23.24	23.17	23.22	23.47	23.97	24.76	25.42
20	23.55	23.52	23.49	23.41	23.33	23.24	23.17	23.22	23.48	24.00	24.79	25.42
21	23.55	23.51	23.48	23.41	23.33	23.24	23.16	23.21	23.49	24.04	24.81	25.42
22	23.55	23.51	23.48	23.40	23.33	23.24	23.16	23.20	23.50	24.10	24.83	25.45
23	23.55	23.51	23.48	23.40	23.32	23.23	23.17	23.20	23.50	24.14	24.85	25.46
24	23.55	23.51	23.48	23.39	23.32	23.23	23.17	23.21	23.53	24.17	24.87	25.46
25	23.55	23.51	23.47	23.39	23.32	23.22	23.17	23.22	23.54	24.18	24.89	25.46
26	23.55	23.52	23.47	23.39	23.32	23.22	23.17	23.22	23.57	24.20	24.91	25.46
27	23.55	23.52	23.45	23.39	23.32	23.22	23.16	23.21	23.58	24.20	24.95	25.47
28	23.54	23.52	23.45	23.39	23.31	23.22	23.16	23.21	23.60	24.20	24.97	25.47
29	23.54	23.52	23.45	23.39	23.30	23.22	23.16	23.21	23.61	24.21	24.99	25.48
30	23.54	23.52	23.45	23.39	---	23.22	23.16	23.20	23.64	24.23	25.00	25.48
31	23.54	---	23.45	23.38	---	23.21	---	23.20	---	24.24	25.02	---
MEAN	---	23.54	23.49	23.42	23.34	23.25	23.18	23.19	23.37	23.99	24.68	25.35
MAX	---	23.57	23.53	23.45	23.38	23.30	23.21	23.22	23.64	24.24	25.02	25.48
MIN	---	23.51	23.45	23.38	23.30	23.21	23.16	23.15	23.20	23.71	24.27	25.06

HALL COUNTY

405632098373501 Local number11N 12W 12BCB Cameron

LOCATION—Lat 40º56'31.3", long 98º37'36.6", NW ¼ SW ¼ NW ¼ sec. 12, T.11N., R.12W., Hydrologic Unit 10200103, 4 mi. south of the intersection of U.S. Highway 2 and U.S. Highway 11 in Cairo, then one mi. west and ¼ mi south.

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 5 in., depth 124 ft, screened 44 to 124 ft.

DATUM—Altitude of land-surface datum is 1,951 ft. Measuring point: Top of casing 1.50 ft above land-surface datum.

PERIOD OF RECORD—September 1978 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 15.64 ft. below land-surface datum, July 2, 1999; lowest, 37.87 ft. below land-surface datum, Sept. 14, 2004.

STATION NUMBER 405632098373501 11N 12W12BCB 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.84	35.32	34.94	34.66	34.31	34.12	33.99	33.83	33.66	34.62	35.95	37.75
2	35.83	35.31	34.94	34.65	34.31	34.12	33.99	33.83	33.69	34.68	36.01	37.75
3	35.80	35.29	34.94	34.64	34.30	34.12	33.99	33.83	33.69	34.70	36.08	37.75
4	35.78	35.26	34.90	34.64	34.29	34.09	33.99	33.80	33.69	34.70	36.19	37.75
5	35.77	35.25	34.87	34.64	34.28	34.08	33.98	33.80	33.68	34.70	36.29	37.74
6	35.75	35.24	34.86	34.64	34.27	34.07	33.98	33.80	33.67	34.70	36.36	37.73
7	35.74	35.22	34.84	34.64	34.26	34.09	33.98	33.80	33.66	34.71	36.44	37.72
8	35.71	35.21	34.83	34.62	34.26	34.09	33.97	33.79	33.69	34.70	36.49	37.73
9	35.70	35.19	34.82	34.60	34.25	34.07	33.97	33.80	33.67	34.70	36.58	37.78
10	35.68	35.17	34.81	34.57	34.25	34.07	33.97	33.79	33.67	34.69	36.69	37.82
11	35.67	35.16	34.80	34.54	34.22	34.07	33.96	33.77	33.66	34.68	36.74	37.85
12	35.66	35.15	34.80	34.53	34.22	34.07	33.96	33.77	33.67	34.68	36.79	37.85
13	35.63	35.14	34.79	34.53	34.22	34.06	33.96	33.77	33.66	34.68	36.85	37.86
14	35.61	35.13	34.77	34.51	34.19	34.06	33.95	33.76	33.65	34.72	36.92	37.87
15	35.60	35.10	34.76	34.50	34.19	34.05	33.98	33.76	33.65	34.75	36.94	37.86
16	35.58	35.09	34.77	34.48	34.18	34.05	33.94	33.75	33.68	34.79	37.01	37.85
17	35.56	35.08	34.76	34.47	34.17	34.03	33.94	33.74	33.76	34.83	37.11	37.83
18	35.54	35.06	34.75	34.46	34.17	34.04	33.93	33.73	33.85	34.86	37.18	37.81
19	35.52	35.06	34.74	34.46	34.15	34.04	33.94	33.71	33.85	34.91	37.20	37.80
20	35.51	35.05	34.74	34.44	34.15	34.04	33.93	33.72	33.85	34.98	37.24	37.79
21	35.50	35.04	34.72	34.43	34.15	34.04	33.90	33.70	33.82	35.07	37.30	37.78
22	35.48	35.04	34.72	34.42	34.13	34.03	33.89	33.72	33.81	35.23	37.36	37.76
23	35.46	35.02	34.72	34.41	34.13	34.03	33.89	33.69	33.87	35.34	37.45	37.76
24	35.44	35.02	34.71	34.39	34.13	34.03	33.89	33.69	34.02	35.38	37.50	37.73
25	35.44	34.98	34.70	34.39	34.13	34.01	33.88	33.71	34.11	35.39	37.57	37.70
26	35.44	34.98	34.68	34.37	34.12	34.00	33.87	33.69	34.21	35.44	37.62	37.69
27	35.43	34.97	34.68	34.37	34.11	34.00	33.86	33.69	34.25	35.56	37.65	37.67
28	35.37	34.97	34.67	34.36	34.11	34.01	33.85	33.69	34.31	35.66	37.65	37.65
29	35.35	34.96	34.67	34.35	34.10	34.01	33.84	33.71	34.41	35.72	37.64	37.64
30	35.33	34.94	34.66	34.35	---	34.00	33.83	33.68	34.52	35.83	37.65	37.64
31	35.33	---	34.66	34.33	---	34.00	---	33.67	---	35.90	37.72	---
MEAN	35.58	35.11	34.77	34.50	34.20	34.05	33.93	33.75	33.85	35.01	36.97	37.76
MAX	35.84	35.32	34.94	34.66	34.31	34.12	33.99	33.83	34.52	35.90	37.72	37.87
MIN	35.33	34.94	34.66	34.33	34.10	34.00	33.83	33.67	33.65	34.62	35.95	37.64

HOLT COUNTY

421210098402001 Local number 26N 12W 26AAA1 Chambers

LOCATION—Lat 42º12'10", long 98º40'20", NE ¼ NE ¼ NE ¼ sec. 26, T.26N., R12W., Hydrologic Unit 10220001, 1 mi. west on Highway 95 from intersection of Highway 281.

AQUIFER—Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS—Drilled observation well, diameter 5 in. , depth 140 ft., screened 80 to 100 ft. and 120 to 140 ft.

DATUM—Altitude of land-surface datum is 2,060 ft. Measuring point: Top of casing 1.50 ft. above land-surface datum.

PERIOD OF RECORD—March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 2.80 ft. below land-surface datum, May 28, 1995; lowest, 19.76 ft. below land-surface datum, Aug. 1, 2002.

STATION NUMBER 421210098402001 Local number 26N 12W 26AAA 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.04	9.81	9.30	8.91	8.65	8.34	7.61	8.70	7.31	10.15	13.96	16.68
2	11.78	9.74	9.26	8.90	8.66	8.34	7.61	8.81	7.33	9.93	14.97	17.65
3	11.91	9.70	9.21	8.92	8.66	8.32	7.62	8.26	7.32	9.08	15.43	17.40
4	11.92	9.64	9.21	8.93	8.65	8.25	7.59	9.03	7.48	8.98	15.56	17.31
5	10.85	9.65	9.23	8.93	8.63	8.15	7.53	9.19	7.50	8.86	14.82	15.99
6	10.72	9.64	9.20	8.92	8.61	8.15	7.53	8.47	7.39	8.63	13.78	15.81
7	10.65	9.62	9.12	8.89	8.63	8.16	7.53	8.32	7.26	8.49	14.48	16.00
8	10.61	9.61	9.14	8.87	8.61	8.13	7.53	8.13	7.29	8.30	14.69	16.24
9	11.48	9.59	9.14	8.87	8.61	8.11	7.53	8.33	7.29	8.22	14.21	16.57
10	11.66	9.54	9.13	8.87	8.61	8.04	7.52	8.33	7.26	8.21	14.19	16.73
11	10.71	9.48	9.11	8.83	8.63	8.04	7.50	8.27	7.23	9.54	14.46	16.82
12	10.54	9.52	9.11	8.84	8.63	8.03	7.49	8.70	7.28	10.59	14.07	16.53
13	10.41	9.53	9.08	8.84	8.59	8.00	7.48	9.01	7.31	9.93	14.01	16.53
14	10.35	9.47	9.04	8.80	8.59	8.00	7.54	8.78	7.84	9.38	14.29	15.79
15	10.30	9.42	9.06	8.79	8.59	7.96	7.83	9.52	8.72	8.98	13.67	14.59
16	10.24	9.42	9.08	8.76	8.59	7.92	7.86	9.63	8.86	8.75	14.72	13.92
17	10.22	9.39	9.07	8.79	8.59	7.86	7.94	8.78	7.95	9.53	15.39	13.36
18	10.15	9.39	9.07	8.80	8.56	7.85	7.77	8.36	7.77	9.90	15.39	12.97
19	10.11	9.39	9.07	8.79	8.51	7.82	7.73	8.17	7.66	11.19	15.24	12.64
20	10.10	9.40	9.03	8.76	8.55	7.88	7.68	8.04	7.53	12.75	14.97	12.42
21	10.08	9.40	8.99	8.78	8.55	7.89	7.55	8.00	7.44	13.07	14.84	12.30
22	10.19	9.36	9.00	8.78	8.53	7.84	7.55	7.87	8.46	13.03	14.69	12.14
23	10.04	9.34	9.00	8.72	8.53	7.81	7.53	7.75	8.63	11.62	14.94	11.79
24	9.98	9.34	8.99	8.73	8.53	7.81	7.49	7.68	8.84	10.67	15.11	11.62
25	9.97	9.27	8.95	8.69	8.51	7.84	7.40	7.62	9.34	10.33	16.29	11.46
26	9.97	9.28	8.93	8.71	8.48	7.85	7.39	7.58	9.51	11.02	16.56	11.29
27	9.88	9.32	8.90	8.71	8.46	7.83	7.38	7.53	8.76	12.27	15.86	11.29
28	9.80	9.33	8.93	8.72	8.45	7.75	7.31	7.53	9.10	13.16	14.74	11.08
29	9.79	9.25	8.93	8.70	8.41	7.75	7.44	7.61	9.87	13.38	13.91	11.06
30	9.79	9.30	8.93	8.70	---	7.71	8.55	7.55	10.10	13.03	14.83	10.89
31	9.82	---	8.95	8.66	---	7.67	---	7.40	---	11.86	15.76	---
MEAN	10.52	9.47	9.07	8.80	8.57	7.97	7.60	8.29	8.05	10.41	14.83	14.23
MAX	12.04	9.81	9.30	8.93	8.66	8.34	8.55	9.63	10.10	13.38	16.56	17.65
MIN	9.79	9.25	8.90	8.66	8.41	7.67	7.31	7.40	7.23	8.21	13.67	10.89

423148098300601 Local number 30N 10W 32DAA O'Neill

LOCATION—Lat 42º31'48", long 098º30'06", NE 1/4 NE 1/4 SE 1/4 sec.32, T.30 N., R.10 W., Hydrologic Unit 10150007, 2 mi east on paved road from O'Neill, then 2 mi north, 4 mi east, 2 mi north, 2 mi east, and 0.5 mi north.

AQUIFER—Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 8 in., depth 85 ft, perforated 25.5 to 85 ft.

DATUM—Altitude of land-surface datum is 1,952 ft. Measuring point: Top of casing 1.00 ft above land-surface datum.

REMARKS—Water levels in this well affected by withdrawals by nearby irrigation wells completed in this aquifer and withdrawals from a deeper aquifer which has resulted in water movement from the upper aquifer to the deeper aquifer.

PERIOD OF RECORD—October 1966 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 35.41 ft below land-surface datum, Oct. 21, 1966; lowest, 53.72 ft below land-surface datum, Sept. 15, 20, and 25, 1982.

STATION NUMBER 423148098300601 30N 10W32DAA 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.16	49.32	49.45	49.49	49.48	49.45	49.40	49.36	49.45	49.47	49.93	50.92
2	49.16	49.34	49.45	49.50	49.49	49.46	49.41	49.36	49.46	49.48	49.95	50.95
3	49.17	49.34	49.45	49.50	49.49	49.46	49.41	49.36	49.47	49.49	49.98	50.97
4	49.17	49.35	49.46	49.51	49.49	49.45	49.40	49.36	49.46	49.51	50.02	51.01
5	49.17	49.35	49.46	49.52	49.48	49.44	49.39	49.35	49.45	49.51	50.05	51.05
6	49.18	49.36	49.46	49.52	49.49	49.44	49.39	49.36	49.45	49.51	50.07	51.08
7	49.18	49.36	49.44	49.51	49.49	49.46	49.39	49.36	49.44	49.51	50.10	51.11
8	49.20	49.37	49.46	49.51	49.48	49.45	49.39	49.36	49.45	49.52	50.14	51.14
9	49.20	49.37	49.47	49.51	49.48	49.45	49.39	49.37	49.46	49.52	50.17	51.16
10	49.21	49.36	49.47	49.51	49.48	49.44	49.39	49.38	49.46	49.52	50.20	51.20
11	49.22	49.37	49.47	49.51	49.49	49.44	49.39	49.38	49.45	49.52	50.23	51.23
12	49.22	49.40	49.47	49.51	49.49	49.44	49.39	49.39	49.45	49.53	50.27	51.26
13	49.23	49.39	49.47	49.51	49.47	49.44	49.39	49.39	49.45	49.54	50.30	51.29
14	49.24	49.37	49.47	49.50	49.48	49.44	49.38	49.40	49.46	49.55	50.33	51.31
15	49.24	49.38	49.48	49.50	49.48	49.43	49.37	49.40	49.46	49.56	50.36	51.34
16	49.25	49.39	49.48	49.50	49.47	49.43	49.37	49.39	49.47	49.57	50.39	51.38
17	49.25	49.39	49.49	49.50	49.47	49.42	49.37	49.41	49.47	49.58	50.42	51.39
18	49.25	49.40	49.49	49.51	49.47	49.42	49.38	49.41	49.48	49.59	50.46	51.42
19	49.25	49.40	49.49	49.51	49.46	49.42	49.38	49.41	49.48	49.62	50.48	51.45
20	49.27	49.42	49.48	49.50	49.47	49.44	49.37	49.43	49.47	49.64	50.52	51.47
21	49.28	49.41	49.49	49.51	49.47	49.44	49.37	49.43	49.45	49.66	50.55	51.48
22	49.28	49.41	49.49	49.51	49.47	49.43	49.37	49.43	49.45	49.69	50.57	51.51
23	49.30	49.42	49.49	49.49	49.47	49.41	49.38	49.43	49.45	49.70	50.63	51.53
24	49.29	49.42	49.49	49.49	49.47	49.40	49.37	49.44	49.46	49.72	50.66	51.53
25	49.30	49.42	49.48	49.48	49.47	49.41	49.37	49.45	49.46	49.74	50.70	51.54
26	49.30	49.43	49.49	49.50	49.46	49.41	49.37	49.45	49.46	49.76	50.73	51.56
27	49.30	49.44	49.48	49.50	49.46	49.41	49.36	49.44	49.46	49.79	50.76	51.57
28	49.31	49.44	49.50	49.50	49.45	49.41	49.36	49.44	49.46	49.82	50.78	51.58
29	49.31	49.42	49.50	49.50	49.45	49.42	49.36	49.44	49.46	49.84	50.83	51.59
30	49.32	49.46	49.50	49.49	---	49.42	49.36	49.44	49.47	49.87	50.86	51.59
31	49.32	---	49.50	49.48	---	49.41	---	49.44	---	49.90	50.89	---
MEAN	49.24	49.39	49.48	49.50	49.47	49.43	49.38	49.40	49.46	49.62	50.40	51.32
MAX	49.32	49.46	49.50	49.52	49.49	49.46	49.41	49.45	49.48	49.90	50.89	51.59
MIN	49.16	49.32	49.44	49.48	49.45	49.40	49.36	49.35	49.44	49.47	49.93	50.92

HOLT COUNTY

423730098560001 Local number 31N 14W 27DDD Atkinson

LOCATION—Lat 42º37'30", long 098º56'00", SE 1/4 SE 1/4 SE 1/4 sec.27, T.31 N., R.14 W., Hydrologic Unit 10150007, 6 mi north from Atkinson on Route 11, then 2 mi east.

AQUIFER—Sand and gravel deposits of Pleistocene age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 8 in., depth 72 ft, perforated 32 to 72 ft.

DATUM—Altitude of land-surface datum is 2,080 ft. Measuring point: Top of casing at land-surface datum.

REMARKS—Water levels in well affected by pumping of nearby wells during irrigation season.

PERIOD OF RECORD—July 1966 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 28.72 ft below land-surface datum, July 3, 1995; lowest, 43.30 ft below land-surface datum, Sept. 10, 1976.

STATION NUMBER 423730098560001 31N 14W27DDD 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40.10	39.59	39.26	39.01	38.81	38.67	38.52	38.42	38.54	38.71	40.50	42.18
2	40.08	39.57	39.25	39.00	38.80	38.68	38.51	38.43	38.55	38.76	40.58	42.21
3	40.05	39.56	39.24	38.99	38.80	38.67	38.51	38.43	38.55	38.85	40.66	42.26
4	40.04	39.55	39.23	38.99	38.79	38.65	38.51	38.44	38.55	38.89	40.75	42.31
5	40.01	39.54	39.22	38.98	38.78	38.64	38.50	38.44	38.53	38.92	40.80	42.33
6	40.00	39.53	39.22	38.98	38.78	38.63	38.49	38.44	38.52	38.93	40.85	42.33
7	39.98	39.52	39.20	38.97	38.78	38.64	38.49	38.44	38.51	38.93	40.93	42.34
8	39.96	39.50	39.19	38.96	38.77	38.64	38.49	38.45	38.51	38.93	41.00	42.35
9	39.94	39.49	39.18	38.95	38.76	38.63	38.48	38.47	38.53	38.94	41.08	42.36
10	39.92	39.48	39.18	38.95	38.76	38.61	38.48	38.50	38.52	38.96	41.15	42.39
11	39.90	39.47	39.17	38.93	38.75	38.61	38.48	38.52	38.51	39.03	41.22	42.42
12	39.88	39.45	39.16	38.93	38.75	38.61	38.48	38.56	38.50	39.10	41.28	42.44
13	39.87	39.44	39.15	38.92	38.75	38.60	38.47	38.60	38.50	39.16	41.32	42.46
14	39.86	39.43	39.14	38.92	38.74	38.60	38.47	38.63	38.50	39.21	41.36	42.51
15	39.84	39.42	39.12	38.91	38.74	38.59	38.45	38.64	38.49	39.29	41.39	42.52
16	39.83	39.41	39.12	38.90	38.73	38.58	38.45	38.64	38.49	39.35	41.44	42.52
17	39.81	39.40	39.12	38.90	38.73	38.57	38.45	38.64	38.49	39.42	41.52	42.52
18	39.79	39.38	39.11	38.89	38.72	38.57	38.45	38.64	38.49	39.46	41.56	42.52
19	39.77	39.38	39.10	38.89	38.71	38.57	38.45	38.64	38.49	39.53	41.60	42.51
20	39.76	39.37	39.09	38.88	38.70	38.58	38.45	38.62	38.48	39.61	41.65	42.50
21	39.74	39.36	39.08	38.88	38.70	38.58	38.43	38.62	38.46	39.70	41.67	42.48
22	39.72	39.35	39.08	38.88	38.70	38.57	38.43	38.60	38.45	39.77	41.68	42.46
23	39.71	39.34	39.07	38.87	38.70	38.56	38.44	38.59	38.44	39.83	41.70	42.43
24	39.69	39.33	39.07	38.86	38.70	38.54	38.43	38.59	38.44	39.93	41.77	42.41
25	39.68	39.31	39.06	38.86	38.69	38.54	38.42	38.59	38.43	39.99	41.84	42.39
26	39.67	39.30	39.05	38.85	38.68	38.54	38.42	38.58	38.47	40.06	41.90	42.36
27	39.66	39.29	39.04	38.85	38.68	38.53	38.42	38.56	38.50	40.14	41.97	42.34
28	39.64	39.29	39.03	38.85	38.67	38.53	38.40	38.56	38.53	40.22	41.99	42.32
29	39.62	39.28	39.03	38.84	38.66	38.53	38.41	38.56	38.59	40.31	42.00	42.30
30	39.61	39.26	39.02	38.84	---	38.53	38.42	38.54	38.65	40.38	42.03	42.28
31	39.60	---	39.01	38.83	---	38.52	---	38.54	---	40.44	42.11	---
MEAN	39.83	39.42	39.13	38.91	38.74	38.59	38.46	38.55	38.51	39.44	41.40	42.39
MAX	40.10	39.59	39.26	39.01	38.81	38.68	38.52	38.64	38.65	40.44	42.11	42.52
MIN	39.60	39.26	39.01	38.83	38.66	38.52	38.40	38.42	38.43	38.71	40.50	42.18

HOOKER COUNTY

420204101200502 Local number 24N 35W 23DC2 Hecla

LOCATION—Lat 42°02'04", long 101°20'05", SW 1/4 SE 1/4 sec. 23, T. 24 N., R. 35 W., Hydrologic Unit 10210001, Approximately 5.2 mi west of Hecla on the south side of State Highway 2.

AQUIFER—Fine sand of Pleistocene age.

WELL CHARACTERISTICS—Driven observation water-table well, diameter 2 in., depth 18 ft, perforated 15 to 18 ft.

DATUM—Altitude of land-surface datum is 3,437 ft. Measuring point: Top of casing 1.90 ft above land-surface datum.

REMARKS—Starting in December 1998, recorder instrument set to and read as depth below measuring point.

PERIOD OF RECORD—December 1998 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 3.64 ft below land-surface datum, April 29-30, 2001; lowest, 8.79 ft below land-surface datum, Nov. 15, 2003.

STATION NUMBER 420204101200502 24N 35W23DC 2 HECLA

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.21	8.63	8.62	6.75	6.50	6.13	5.74	5.20	5.55	6.53	5.89	7.44
2	8.22	8.64	8.38	6.75	6.51	6.10	5.78	5.21	5.58	6.59	5.86	7.48
3	8.23	8.66	8.07	6.73	6.51	6.15	5.79	5.24	5.60	6.65	5.86	7.53
4	8.24	8.67	7.90	6.72	6.50	6.20	5.77	5.25	5.57	6.69	5.88	7.56
5	8.26	8.68	7.78	6.71	6.50	6.36	5.78	5.30	5.58	6.74	5.88	7.59
6	8.28	8.70	7.69	6.70	6.50	6.45	5.78	5.34	5.57	6.73	5.88	7.63
7	8.29	8.71	7.64	6.68	6.48	6.41	5.80	5.35	5.61	6.75	5.89	7.67
8	8.31	8.72	7.62	6.65	6.45	6.23	5.80	5.35	5.68	6.79	5.95	7.69
9	8.32	8.73	7.56	6.64	6.46	6.14	5.77	5.35	5.75	6.54	6.03	7.73
10	8.33	8.73	7.51	6.63	6.45	6.04	5.70	5.37	5.74	6.38	6.13	7.77
11	8.36	8.74	7.46	6.62	6.48	6.01	5.64	5.37	5.69	6.24	6.21	7.80
12	8.36	8.77	7.43	6.61	6.48	5.96	5.63	5.42	5.68	---	6.28	7.83
13	8.38	8.77	7.39	6.60	6.43	5.90	5.61	5.45	5.69	---	6.36	7.86
14	8.39	8.78	7.33	6.59	6.46	5.89	5.60	5.44	5.71	---	6.45	7.90
15	8.40	8.79	7.28	6.59	6.46	5.84	5.61	5.42	5.78	---	6.52	7.94
16	8.42	8.67	7.27	6.57	6.46	5.82	5.63	5.42	5.88	---	6.61	7.97
17	8.43	8.23	7.24	6.57	6.44	5.80	5.63	5.45	5.96	6.05	6.68	8.00
18	8.44	8.04	7.20	6.55	6.40	5.80	5.67	5.45	6.03	6.03	6.76	8.03
19	8.45	8.00	7.17	6.53	6.36	5.81	5.69	5.44	6.02	6.06	6.83	8.06
20	8.47	8.08	7.12	6.50	6.35	5.83	5.65	5.46	5.90	6.22	6.90	8.09
21	8.49	8.16	7.06	6.48	6.32	5.83	5.63	5.44	5.83	6.37	6.95	8.12
22	8.50	8.23	7.00	6.46	6.29	5.78	5.62	5.44	5.94	6.50	7.00	8.13
23	8.50	8.30	6.98	6.44	6.27	5.78	5.40	5.38	5.94	6.59	7.04	8.16
24	8.53	8.32	6.94	6.43	6.26	5.77	5.12	5.41	6.00	6.67	7.09	8.17
25	8.54	8.38	6.90	6.42	6.24	5.78	5.04	5.43	6.14	6.74	7.13	8.20
26	8.55	8.45	6.88	6.40	6.23	5.78	5.07	5.41	6.20	6.79	7.18	8.22
27	8.56	8.52	6.85	6.41	6.22	5.77	5.07	5.45	6.27	6.83	7.24	8.25
28	8.56	8.54	6.82	6.42	6.20	5.77	5.13	5.45	6.34	6.75	7.27	8.27
29	8.59	8.55	6.80	6.44	6.17	5.75	5.18	5.46	6.41	6.28	7.32	8.29
30	8.60	8.62	6.78	6.44	---	5.73	5.19	5.49	6.47	6.09	7.36	8.30
31	8.62	---	6.77	6.47	---	5.73	---	5.51	---	5.95	7.41	---
MEAN	8.41	8.53	7.34	6.56	6.39	5.95	5.55	5.39	5.87	---	6.58	7.92
MAX	8.62	8.79	8.62	6.75	6.51	6.45	5.80	5.51	6.47	---	7.41	8.30
MIN	8.21	8.00	6.77	6.40	6.17	5.73	5.04	5.20	5.55	---	5.86	7.44

404804096403301 Local number 10N 7E 30CDBD1 m90-102r

LOCATION—Lat 40º48'04", long 96º40'33", SE ¼ NW ¼ SE ¼ SW ¼ sec. 30, T.10N., R.7E., Hydrologic Unit 10200203, located in the city park in Lincoln.

AQUIFER—Dakota Sandstone of Cretaceous age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 155 ft., casing perforated 115 to 155 ft.

DATUM—Altitude of land-surface datum is 1,181 ft. Measuring point: Top of casing 3.00 ft. above land-surface datum.

PERIOD OF RECORD—July 1990 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 22.57 ft. below land-surface datum, Oct. 2, 2001; lowest, 57.73 ft. below land-surface datum, July 16, 1991.

STATION NUMBER 404804096403301 10N 7E30CDBD 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.52	24.93	25.10	24.64	24.67	24.97	24.78	24.71	24.08	23.46	23.30	23.35
2	24.45	24.56	24.88	24.65	24.88	25.15	24.92	24.45	24.26	23.43	23.18	23.25
3	24.19	24.47	24.61	24.81	24.96	25.11	24.95	24.41	24.29	23.36	23.14	23.14
4	24.26	24.64	24.72	24.96	24.88	24.83	24.88	33.40	24.16	23.38	23.49	23.18
5	24.20	24.82	24.91	25.18	24.76	24.79	24.65	36.17	23.90	23.47	23.56	23.07
6	24.26	24.83	24.86	25.11	24.88	24.95	24.64	30.74	23.75	23.53	23.48	23.36
7	24.26	24.83	24.31	24.83	25.01	25.16	24.72	27.01	23.71	23.51	23.33	23.45
8	24.28	24.89	24.45	24.83	24.90	25.02	24.83	25.76	23.87	23.36	23.30	23.35
9	24.34	24.77	24.59	24.95	24.89	25.06	24.89	25.29	23.92	23.51	23.38	23.24
10	24.34	24.37	24.70	24.88	24.89	24.96	25.00	25.02	23.79	23.54	23.40	23.22
11	24.57	24.26	24.78	24.69	25.06	25.01	24.89	24.93	23.73	23.42	23.36	23.23
12	24.57	24.90	24.78	24.82	25.13	25.00	24.87	24.79	23.78	23.44	23.37	23.16
13	24.41	24.94	24.67	24.92	24.88	24.88	24.88	24.94	23.76	23.42	23.42	23.00
14	24.45	24.54	24.42	24.74	24.90	25.01	24.76	24.94	23.77	23.61	23.42	22.98
15	24.45	24.39	24.53	24.73	24.95	24.84	24.61	24.83	23.83	23.41	23.36	23.28
16	24.70	24.49	24.85	24.51	24.93	24.82	24.75	24.55	23.88	23.44	23.22	23.33
17	24.70	24.30	24.77	24.72	25.01	24.62	24.79	24.50	23.91	23.50	23.19	23.22
18	24.41	24.57	24.88	24.89	24.84	24.96	24.74	24.53	24.05	23.41	23.27	23.16
19	24.42	24.63	24.93	24.86	24.38	24.92	28.41	24.43	24.04	23.24	23.36	23.24
20	24.51	24.58	24.70	24.74	24.86	25.34	27.28	24.36	23.73	23.24	23.25	23.14
21	24.51	24.63	24.52	24.84	24.90	25.35	25.57	24.31	23.60	23.33	23.29	23.23
22	24.48	24.46	24.66	24.99	24.78	24.95	25.36	24.08	23.65	23.52	23.10	23.26
23	24.44	24.71	24.73	24.63	24.96	24.59	25.37	24.22	23.62	23.59	23.02	23.22
24	24.62	24.71	24.75	24.70	24.99	24.66	25.24	24.22	23.84	23.62	23.16	23.34
25	24.83	24.40	24.58	24.45	24.96	24.73	25.09	24.31	23.85	23.61	23.12	23.39
26	24.81	24.53	24.54	24.86	24.85	24.79	25.19	24.21	23.72	23.44	23.13	23.28
27	24.30	24.91	24.36	24.94	24.75	24.69	25.09	24.06	23.64	23.30	23.38	23.22
28	24.26	24.93	24.61	24.98	24.74	24.91	24.64	24.11	23.71	23.22	23.44	23.38
29	24.26	24.60	24.64	24.91	24.62	24.93	24.92	23.88	23.65	23.25	23.36	23.25
30	24.62	25.03	24.69	24.88	---	24.96	24.92	23.92	23.54	23.22	23.35	22.99
31	24.94	---	24.94	24.64	---	24.89	---	23.93	---	23.27	23.36	---
MEAN	24.46	24.65	24.69	24.82	24.87	24.93	25.12	25.45	23.83	23.42	23.31	23.23
MAX	24.94	25.03	25.10	25.18	25.13	25.35	28.41	36.17	24.29	23.62	23.56	23.45
MIN	24.19	24.26	24.31	24.45	24.38	24.59	24.61	23.88	23.54	23.22	23.02	22.98

405227098165601 Local number 11N 8W 31CCCA1 Grand Island

LOCATION—Lat 40º52'27", long 98º16'56", NE ¼ SW ¼ SW ¼ SW ¼ sec. 31, T.11N., R. 8W., Hydrologic Unit 10200101.

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 2 in., depth 30 ft., perforated 10 to 30 ft.

DATUM—Altitude of land-surface datum is 1,835 ft. Measuring point: 3.23 ft. above land surface datum.

PERIOD OF RECORD.—June 1999 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 5.76 ft. below land-surface datum, July 2, 1999; lowest, 12.76 ft. below land-surface datum, Nov. 16, 17, 2003.

STATION NUMBER 405227098165601 11N 8W31CCCA1 GRAND ISLAND

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.67	12.48	8.81	8.82	7.93	7.80	8.40	8.58	9.00	9.61	9.58	11.32
2	11.71	12.50	8.77	8.62	7.81	7.84	8.41	8.60	9.05	9.62	9.67	11.35
3	11.75	12.52	8.80	8.53	7.77	7.84	8.41	8.62	9.07	9.23	9.76	11.43
4	11.78	12.54	8.80	8.69	7.75	7.87	8.43	8.65	9.11	9.31	9.84	11.48
5	11.81	12.56	8.78	8.91	7.75	7.91	8.47	8.67	9.15	9.31	9.90	11.53
6	11.84	12.57	8.79	8.94	7.71	7.99	8.49	8.70	9.17	9.13	9.96	11.58
7	11.87	12.58	8.44	8.92	7.66	7.98	8.53	8.73	9.25	8.99	10.02	11.63
8	11.90	12.60	8.36	8.95	7.61	8.08	8.53	8.75	9.36	8.93	10.08	11.68
9	11.92	12.62	8.53	8.95	7.59	8.12	8.53	8.76	9.43	8.93	10.14	11.73
10	11.95	12.64	8.48	8.88	7.58	8.19	8.50	8.74	9.49	8.68	10.17	11.78
11	11.96	12.66	8.59	8.62	7.59	8.15	8.52	8.59	9.55	8.64	10.22	11.83
12	11.97	12.68	8.59	8.34	7.58	8.07	8.52	8.64	9.58	8.68	10.27	11.88
13	12.00	12.70	8.42	8.08	7.52	8.08	8.53	8.65	9.63	8.71	10.33	11.93
14	12.02	12.72	8.34	8.10	7.55	8.11	8.54	8.64	9.69	8.74	10.38	11.97
15	12.05	12.74	8.27	8.09	7.47	8.21	8.57	8.66	9.70	8.79	10.43	11.97
16	12.08	12.76	8.32	7.98	7.45	8.26	8.59	8.66	9.71	8.84	10.48	12.00
17	12.10	12.76	8.37	8.09	7.46	8.27	8.60	8.69	9.75	8.88	10.53	12.04
18	12.12	10.43	8.37	8.10	7.50	8.24	8.62	8.69	9.76	8.93	10.59	12.08
19	12.15	9.66	8.34	8.24	7.45	8.24	8.63	8.67	9.76	8.99	10.64	12.12
20	12.18	9.46	8.39	8.37	7.34	8.33	8.62	8.69	9.72	9.08	10.70	12.16
21	12.20	9.32	8.37	8.34	7.23	8.34	8.62	8.70	9.30	9.16	10.74	12.21
22	12.23	9.21	8.32	8.21	7.24	8.29	8.58	8.71	9.19	9.17	10.80	12.23
23	12.24	9.16	8.38	8.15	7.26	8.34	8.58	8.75	9.16	9.17	10.85	12.06
24	12.27	9.17	8.40	8.04	7.27	8.39	8.56	8.79	9.17	9.18	10.90	11.82
25	12.30	9.16	8.40	8.05	7.46	8.43	8.47	8.82	9.17	9.21	10.95	11.86
26	12.32	9.16	8.37	8.22	7.55	8.43	8.49	8.83	9.20	9.25	11.00	11.91
27	12.35	9.04	8.41	8.21	7.56	8.37	8.49	8.86	9.22	9.31	11.06	11.95
28	12.38	8.84	8.50	8.20	7.54	8.26	8.56	8.89	9.28	9.35	11.11	11.96
29	12.40	8.76	8.51	8.29	7.73	8.30	8.59	8.93	9.37	9.35	11.16	11.98
30	12.43	8.80	8.74	8.25	---	8.35	8.58	8.93	9.53	9.35	11.22	12.02
31	12.45	---	8.83	8.05	---	8.37	---	8.95	---	9.46	11.27	---
MEAN	12.08	11.16	8.51	8.39	7.55	8.18	8.53	8.73	9.38	9.10	10.48	11.85
MAX	12.45	12.76	8.83	8.95	7.93	8.43	8.63	8.95	9.76	9.62	11.27	12.23
MIN	11.67	8.76	8.27	7.98	7.23	7.80	8.40	8.58	9.00	8.64	9.58	11.32

410618098113401 Local number 13N 8W 11DDDD1 Archer

LOCATION—Lat 41º06'15.7", long 98º11'34.7", SE1/4 SE ¼ SE ¼ SE ¼ sec. 11, T.13N., R.8W., Hydrologic Unit 10200103, 10 mi. west of intersection of 13th St. and U.S. Highway 14 in Central City, then 1 mi. south.

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 5 in., depth 20ft, casing perforated 15 to 20 ft.

DATUM—Altitude of land-surface datum is 1,772 ft. Measuring point: Top of shelf 3 ft. above land-surface datum.

PERIOD OF RECORD—September 1986 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 0.15 ft. above land-surface datum, Apr. 9, 1998; lowest, 17.22 ft. below land-surface datum, Aug. 9, 2004.

STATION NUMBER 410618098113401 13N 8W11DDDD 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.00	14.49	15.18	15.22	15.24	15.29	---	15.13	15.05	16.29	16.79	---
2	12.06	14.54	15.09	15.24	15.25	15.29	---	15.12	15.06	16.29	16.82	---
3	12.25	14.54	15.12	15.24	15.25	15.28	---	15.12	15.06	16.47	16.80	---
4	12.34	14.63	15.15	15.27	15.24	15.25	---	15.10	15.05	---	16.89	---
5	12.51	14.67	15.16	15.28	15.23	15.25	---	15.11	15.04	---	16.95	---
6	12.61	14.67	15.11	15.27	15.24	15.27	---	15.09	15.02	---	17.02	---
7	12.72	14.71	15.08	15.23	15.25	15.27	---	15.10	15.00	---	17.10	---
8	---	14.73	15.15	15.26	15.25	15.25	15.14	15.09	15.02	16.04	17.18	---
9	---	14.72	15.17	15.26	15.25	15.23	15.15	15.12	15.01	16.05	17.22	16.47
10	---	14.74	15.15	15.24	15.25	15.23	15.17	15.11	15.01	15.96	---	16.41
11	---	14.76	15.16	15.25	15.25	15.23	15.15	15.11	15.00	15.90	---	16.28
12	---	14.93	15.16	15.26	15.25	15.23	15.14	15.11	15.01	15.86	---	16.18
13	---	14.89	15.13	15.26	15.23	15.23	15.14	15.14	15.04	15.80	---	16.08
14	---	14.81	15.12	15.24	15.25	15.23	15.12	15.13	15.17	15.81	---	16.08
15	13.48	14.89	15.23	15.23	15.25	15.22	15.12	15.13	15.55	15.79	---	16.12
16	13.65	14.90	15.21	15.24	15.24	15.20	15.12	15.10	15.77	16.04	---	16.06
17	13.63	14.90	15.20	15.25	15.25	15.19	15.12	15.10	15.86	16.27	---	16.00
18	13.68	14.98	15.21	15.27	15.22	15.23	15.14	15.10	15.78	16.40	---	16.00
19	13.72	14.97	15.20	15.24	15.22	15.21	15.16	15.09	15.69	16.39	---	16.01
20	13.85	14.99	15.16	15.24	15.26	15.25	15.13	15.09	15.62	16.45	---	15.98
21	13.88	14.99	15.19	15.25	15.25	---	15.12	15.07	15.61	16.58	---	16.03
22	13.94	14.97	15.20	15.25	15.24	---	15.15	15.07	15.59	16.60	---	16.02
23	13.97	15.05	15.20	15.24	15.26	---	15.16	15.06	15.55	16.47	---	16.02
24	14.12	15.03	15.19	15.24	15.26	---	15.14	15.06	15.93	16.31	---	16.01
25	14.16	15.02	15.19	15.24	15.26	---	15.13	15.10	16.05	16.20	---	15.93
26	14.16	15.07	15.19	15.26	15.25	---	15.14	15.07	16.15	16.12	---	15.81
27	14.21	15.13	15.20	15.25	15.25	---	15.12	15.05	16.11	16.04	---	15.77
28	14.29	15.11	15.23	15.26	15.24	---	15.08	15.05	16.23	15.99	---	15.78
29	14.29	15.02	15.22	15.26	15.23	---	15.13	15.07	16.31	16.33	---	15.72
30	14.45	15.19	15.25	15.23	---	---	15.14	15.05	16.28	16.55	---	15.76
31	14.53	---	15.26	15.22	---	---	---	15.05	---	16.68	---	---
MEAN	---	14.87	15.18	15.25	15.25	---	---	15.09	15.49	---	---	---
MAX	---	15.19	15.26	15.28	15.26	---	---	15.14	16.31	---	---	---
MIN	---	14.49	15.08	15.22	15.22	---	---	15.05	15.00	---	---	---

410943097595001 Local number 14N 6W 26AAAA1 Central City

LOCATION—Lat 41º09'42", long 97º57'48", NE ¼ NE ¼ NE ¼ NE ¼ sec.26, T.14N., R 6W., Hydrologic Unit 10200103, 3 mi. north of intersection of U.S. Highway 30 and U. S. Highway 14 in Central City, then 2 miles east.

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 5 in., depth 19 ft., casing perforated 14 to 19 ft..

DATUM—Altitude of land-surface datum is 1,673 ft. Measuring point: Top of shelf 3 ft. above land-surface datum.

PERIOD OF RECORD—September 1986 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 0.23 ft. below land-surface datum, Mar. 24, 1987; lowest, 10.00 ft. below land-surface datum, Sept. 10, 11, 2003.

STATION NUMBER 410943097575001 14N 6W26AAAA 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.15	8.83	8.70	8.66	8.61	8.46	7.59	7.21	6.86	7.26	7.30	---
2	9.14	8.83	8.70	8.66	8.61	8.43	7.59	7.21	6.85	7.36	7.43	---
3	9.12	8.82	8.70	8.66	8.61	8.43	7.58	7.20	6.84	7.42	7.49	---
4	9.10	8.82	8.70	8.66	8.61	8.39	7.56	7.20	6.84	7.45	7.57	---
5	9.07	8.82	8.70	8.66	8.59	8.32	7.54	7.20	6.81	7.47	7.62	---
6	9.06	8.81	8.70	8.66	8.59	8.30	7.51	7.18	6.79	7.48	7.67	---
7	9.05	8.79	8.69	8.66	8.59	8.24	7.50	7.18	6.77	7.48	7.73	---
8	9.03	8.79	8.69	8.65	8.59	8.19	7.42	7.18	6.76	7.50	7.81	---
9	9.02	8.79	8.69	8.65	8.58	8.12	7.42	7.18	6.76	7.50	7.78	---
10	9.00	8.79	8.69	8.65	8.58	8.04	7.41	7.18	6.76	6.94	7.74	---
11	8.98	8.76	8.69	8.65	8.58	7.98	7.41	7.18	6.77	6.70	7.69	---
12	8.98	8.76	8.69	8.65	8.58	7.94	7.38	7.18	6.79	6.60	7.67	---
13	8.97	8.76	8.69	8.65	8.58	7.87	7.38	7.19	6.79	6.55	7.65	---
14	8.96	8.76	8.69	8.64	8.58	7.85	7.36	7.19	6.80	6.55	7.64	---
15	8.95	8.76	8.68	8.64	8.58	7.82	7.34	7.18	6.85	6.54	7.68	---
16	8.93	8.76	8.68	8.64	8.58	7.80	7.33	7.17	6.87	6.56	7.71	---
17	8.93	8.75	8.66	8.63	8.58	7.76	7.32	7.13	7.01	6.63	7.73	---
18	8.92	8.75	8.66	8.63	8.58	7.73	7.31	7.13	7.06	6.66	7.79	---
19	8.92	8.75	8.66	8.63	8.58	7.72	7.28	7.13	7.07	6.70	7.85	---
20	8.90	8.75	8.66	8.63	8.57	7.69	7.27	7.11	7.07	6.86	7.91	---
21	8.90	8.75	8.65	8.62	8.55	7.69	7.27	7.09	7.06	6.91	8.00	---
22	8.90	8.75	8.65	8.62	8.54	7.69	7.26	7.06	7.07	7.00	8.05	---
23	8.88	8.75	8.65	8.62	8.54	7.66	7.26	7.05	7.07	7.09	8.09	---
24	8.88	8.75	8.65	8.62	8.53	7.65	7.26	7.05	7.07	7.10	8.11	---
25	8.88	8.72	8.66	8.62	8.53	7.64	7.25	7.04	7.08	7.11	8.18	---
26	8.88	8.72	8.66	8.62	8.53	7.64	7.24	7.03	7.14	7.11	8.20	---
27	8.86	8.72	8.64	8.61	8.52	7.63	7.24	6.99	7.15	7.11	8.26	---
28	8.85	8.72	8.65	8.61	8.52	7.61	7.22	6.99	7.17	7.16	8.31	---
29	8.84	8.71	8.65	8.61	8.50	7.61	7.21	6.96	7.19	7.19	8.32	---
30	8.83	8.70	8.65	8.61	---	7.61	7.21	6.92	7.22	7.24	8.33	---
31	8.83	---	8.66	8.61	---	7.61	---	6.89	---	7.26	8.34	---
MEAN	8.96	8.76	8.67	8.64	8.57	7.91	7.36	7.12	6.94	7.05	7.86	---
MAX	9.15	8.83	8.70	8.66	8.61	8.46	7.59	7.21	7.22	7.50	8.34	---
MIN	8.83	8.70	8.64	8.61	8.50	7.61	7.21	6.89	6.76	6.54	7.30	---

MORRILL COUNTY

413216102520201 Local number 18N 48W 16BBCC Broadwater

LOCATION—Lat 41º32'16 ", long 102º52'02", SW ¼ SW ¼ NW ¼ NW ¼ sec. 16, T.18N., R.48W., Hydrologic Unit 10180009

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, depth 131 ft.

DATUM—Altitude of land-surface datum is 3,670 ft. Measuring point: Top of shelf 3.10 ft. above land-surface datum.

PERIOD OF RECORD—July 1990 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 74.13 ft. below land-surface datum, July 11, 1990; lowest, 87.05 ft. below land-surface datum, Aug. 31, and Sept. 1, 2, 2004.

STATION NUMBER 413216102520201 18N 48W16BBCC1 BROADWATER

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86.17	85.79	85.52	85.17	84.83	84.50	84.33	84.15	84.31	84.61	85.59	87.05
2	86.16	85.79	85.51	85.16	84.82	84.49	84.34	84.14	84.45	84.69	85.59	87.05
3	86.16	85.77	85.49	85.15	84.80	84.48	84.33	84.20	84.56	84.83	85.71	87.04
4	86.14	85.76	85.51	85.14	84.79	84.46	84.31	84.25	84.59	84.91	85.74	87.02
5	86.13	85.76	85.46	85.14	84.78	84.45	84.30	84.25	84.64	84.97	85.87	86.94
6	86.13	85.75	85.44	85.13	84.78	84.48	84.30	84.34	84.73	85.01	86.00	86.93
7	86.13	85.73	85.44	85.10	84.76	84.46	84.30	84.37	84.78	85.12	85.95	86.91
8	86.09	85.73	85.44	85.10	84.75	84.43	84.29	84.42	84.84	85.30	85.98	86.89
9	86.09	85.71	85.43	85.09	84.74	84.42	84.28	84.42	84.94	85.28	85.95	86.88
10	86.11	85.70	85.41	85.07	84.72	84.43	84.27	84.44	84.80	85.27	85.92	86.86
11	86.08	85.67	85.40	85.06	84.72	84.40	84.27	84.54	84.77	85.24	85.89	86.85
12	86.04	85.67	85.38	85.05	84.72	84.38	84.26	84.59	84.77	85.22	85.97	86.83
13	86.03	85.67	85.37	85.03	84.68	84.40	84.24	84.61	84.74	85.19	86.03	86.82
14	86.01	85.66	85.36	85.03	84.68	84.37	84.22	84.61	84.72	85.17	86.12	86.82
15	86.01	85.65	85.37	85.01	84.67	84.36	84.22	84.60	84.70	85.16	86.21	86.78
16	86.02	85.64	85.36	84.99	84.65	84.34	84.23	84.54	84.75	85.23	86.26	86.76
17	85.97	85.63	85.36	84.99	84.65	84.32	84.23	84.52	84.72	85.27	86.35	86.74
18	85.97	85.63	85.34	84.98	84.63	84.32	84.23	84.51	84.71	85.34	86.43	86.74
19	85.95	85.61	85.31	84.97	84.62	84.31	84.23	84.47	84.70	85.42	86.47	86.72
20	85.96	85.61	85.28	84.96	84.62	84.31	84.21	84.46	84.72	85.55	86.51	86.71
21	85.93	85.61	85.31	84.96	84.60	84.30	84.18	84.45	84.65	85.59	86.53	86.71
22	85.90	85.61	85.28	84.94	84.58	84.28	84.19	84.42	84.64	85.68	86.56	86.70
23	85.87	85.59	85.26	84.92	84.57	84.26	84.19	84.39	84.64	85.75	86.63	86.69
24	85.89	85.57	85.24	84.91	84.57	84.25	84.17	84.37	84.67	85.74	86.71	86.69
25	85.87	85.56	85.25	84.91	84.56	84.25	84.19	84.36	84.64	85.73	86.79	86.66
26	85.86	85.55	85.24	84.90	84.54	84.26	84.18	84.33	84.61	85.70	86.87	86.64
27	85.85	85.55	85.22	84.87	84.54	84.23	84.16	84.31	84.61	85.66	86.89	86.63
28	85.84	85.54	85.22	84.86	84.52	84.20	84.14	84.31	84.60	85.65	86.91	86.61
29	85.83	85.52	85.18	84.88	84.49	---	84.15	84.28	84.60	85.66	87.02	86.60
30	85.81	85.53	85.18	84.85	---	---	84.15	84.27	84.60	85.62	87.02	86.58
31	85.81	---	85.18	84.84	---	84.33	---	84.27	---	85.59	87.05	---
MEAN	85.99	85.65	85.35	85.01	84.67	---	84.24	84.39	84.67	85.33	86.31	86.80
MAX	86.17	85.79	85.52	85.17	84.83	---	84.34	84.61	84.94	85.75	87.05	87.05
MIN	85.81	85.52	85.18	84.84	84.49	---	84.14	84.14	84.31	84.61	85.59	86.58

415118103020903 Local number 22N 49W 19CDDD Angora

LOCATION—Lat 41°51'18", long 103°02'09", SW ¼ SE ¼ SE ¼ SE ¼ sec. 19, T.22N., R.49W., Hydrologic Unit 10180009

AQUIFER—Sand deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 2 in., depth 58 ft., casing perforated below water table.

DATUM—Altitude of land-surface datum is 4,165 ft. Measuring point: 2.38 ft. above land-surface datum.

PERIOD OF RECORD—March 2002 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 12.57 ft. below land-surface datum, Oct. 12, 2003; lowest, 33.98 ft. below land-surface datum, Aug. 27, 2004.

STATION NUMBER 415118103020903

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.07	15.91	---	14.61	14.36	14.14	13.70	13.58	29.02	14.61	17.98	32.73
2	16.00	15.66	---	14.64	14.40	14.13	13.82	13.53	29.51	14.57	27.61	33.46
3	16.07	15.59	---	14.63	14.29	14.04	13.80	13.46	19.85	14.55	30.52	33.89
4	16.03	15.64	---	14.67	14.30	13.95	13.64	13.50	22.11	14.53	30.85	33.70
5	16.02	15.63	---	14.72	14.36	14.06	13.68	13.42	26.71	14.57	32.00	24.86
6	16.01	15.59	14.76	14.61	14.36	14.17	13.70	13.53	29.43	14.55	32.66	21.66
7	15.97	15.56	14.78	14.50	14.29	14.18	13.70	13.51	29.79	14.40	32.72	20.35
8	15.97	15.50	14.92	14.62	14.33	14.03	13.70	13.46	29.51	23.02	22.65	19.53
9	15.98	15.46	14.92	14.61	14.32	14.02	13.73	13.43	30.50	29.05	28.53	19.00
10	15.90	15.40	14.83	14.55	14.28	14.05	13.73	13.50	23.22	29.46	31.43	18.63
11	13.60	15.46	14.81	14.54	14.34	14.02	13.68	13.55	17.60	19.53	32.58	18.38
12	12.14	15.58	14.80	14.54	14.32	13.90	13.69	13.55	16.22	24.17	33.09	18.12
13	14.77	15.46	14.74	14.53	14.18	14.06	13.63	13.56	15.70	28.43	33.12	17.88
14	15.43	15.29	14.68	14.49	14.20	14.04	13.59	13.50	15.56	29.99	23.25	17.83
15	15.68	15.33	14.94	14.41	14.19	13.95	13.68	13.41	15.37	30.32	19.45	17.73
16	15.83	15.31	14.93	14.53	14.25	13.84	13.70	13.40	15.38	29.78	18.24	17.60
17	15.80	15.35	14.86	14.53	14.23	13.92	13.69	13.47	15.27	29.77	27.93	17.46
18	15.82	15.37	14.83	14.49	14.12	13.93	13.87	13.47	15.19	30.02	31.33	17.38
19	15.65	15.32	14.75	14.45	14.18	13.96	13.85	13.46	15.09	30.25	32.59	17.30
20	15.83	15.29	14.65	14.49	14.19	14.03	13.62	24.77	14.94	30.41	33.18	17.31
21	15.76	15.24	14.74	14.49	14.14	13.95	13.66	26.44	14.92	30.47	33.23	17.33
22	15.76	15.22	14.77	14.48	14.13	13.73	13.77	28.84	14.91	30.51	23.34	17.19
23	15.65	15.23	14.70	14.38	14.13	13.74	13.75	29.62	14.88	21.73	28.87	17.05
24	15.90	15.14	14.61	14.38	14.10	13.78	13.58	30.31	14.92	18.00	31.79	17.05
25	15.87	15.06	14.65	14.50	14.07	13.82	13.64	30.49	14.82	16.91	33.12	16.96
26	15.81	15.21	14.65	14.49	14.03	13.80	13.64	20.15	14.76	16.45	33.61	16.88
27	15.78	15.27	14.64	14.44	14.09	13.76	---	16.20	14.78	26.47	33.74	16.91
28	15.79	15.17	14.72	14.43	14.02	13.84	---	15.15	14.72	30.31	33.69	23.47
29	15.84	14.97	14.68	14.42	13.98	13.82	---	14.70	14.62	31.46	24.30	30.03
30	15.81	---	14.69	14.31	---	13.79	13.61	14.70	14.63	31.96	28.03	31.14
31	15.85	---	14.69	14.36	---	13.67	---	25.41	---	21.56	30.17	---
MEAN	15.63	---	---	14.51	14.21	13.94	---	17.20	19.13	23.93	29.21	21.29
MAX	16.07	---	---	14.72	14.40	14.18	---	30.49	30.50	31.96	33.74	33.89
MIN	12.14	---	---	14.31	13.98	13.67	---	13.40	14.62	14.40	17.98	16.88

PERKINS COUNTY

404519101170301 Local number 9N 35W 23BBB1 Grainton

LOCATION—Lat 40º44'27", long 101º17'04", NW ¼ NW ¼ NW ¼ sec. 23, T.9N., R.35W., Hydrologic Unit 10250004.

AQUIFER—Ogallala formation of Tertiary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 5 in., depth 298 ft., perforated 258 to 298 ft.

DATUM—Altitude of land-surface datum is 3,245 ft. Measuring point: top of casing, 1.70 ft. above land-surface datum.

PERIOD OF RECORD—March 1975 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 164.30 ft. below land-surface datum, Mar. 25, 1975; lowest, 189.61 ft. below land-surface datum, Aug. 14, 15, 2004.

STATION NUMBER 404519101170301 9N 35W23BBB 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183.36	182.63	182.48	181.70	181.46	181.26	181.43	181.32	181.83	182.14	183.65	188.19
2	183.33	182.53	182.40	181.60	181.58	181.41	181.57	181.31	182.57	182.07	183.31	187.41
3	183.12	182.52	182.22	181.68	181.58	181.41	181.64	181.29	183.32	182.03	183.61	186.81
4	183.06	182.44	182.37	181.89	181.53	181.39	181.62	181.18	183.42	181.91	184.85	186.43
5	183.01	182.60	182.44	182.09	181.57	181.22	181.38	181.19	183.16	181.92	186.73	186.24
6	182.96	182.66	182.40	182.09	181.67	181.40	181.25	181.42	182.59	182.00	187.67	186.28
7	182.93	182.68	182.05	182.06	181.69	181.58	181.23	181.82	182.92	181.97	188.10	186.20
8	182.81	182.71	181.89	181.94	181.61	181.64	181.31	182.06	183.14	182.20	188.64	186.57
9	182.75	182.71	182.05	182.03	181.67	181.66	181.32	182.28	183.15	182.62	188.81	186.55
10	182.73	182.54	182.05	182.04	181.68	181.54	181.40	182.47	182.98	182.63	188.29	187.01
11	182.89	182.37	182.00	181.89	181.77	181.59	181.38	182.31	182.65	182.44	187.11	187.24
12	182.89	182.67	181.98	181.95	181.81	181.58	181.34	181.70	182.48	182.30	186.54	187.40
13	182.81	182.69	181.97	181.97	181.74	181.44	181.34	182.05	182.51	182.40	187.48	187.79
14	182.85	182.48	181.88	181.92	181.58	181.52	181.24	182.06	183.14	182.52	187.83	187.82
15	182.82	182.27	181.78	181.86	181.59	181.42	181.02	182.26	183.59	183.06	188.05	187.75
16	182.89	182.26	181.98	181.61	181.70	181.42	181.14	182.26	184.16	183.49	188.28	187.27
17	182.90	182.12	182.08	181.72	181.74	181.33	181.30	181.67	184.16	183.64	188.28	186.19
18	182.86	182.22	182.21	181.75	181.70	181.39	181.47	181.72	183.71	183.89	187.57	185.48
19	182.90	182.30	182.21	181.75	181.42	181.39	181.54	181.99	183.45	184.43	186.88	184.89
20	182.96	182.19	182.09	181.76	181.45	181.81	181.34	182.27	183.01	184.79	187.10	184.50
21	183.00	182.19	181.86	181.79	181.45	181.86	181.12	182.90	182.50	185.53	187.12	184.27
22	182.95	182.13	181.99	181.82	181.40	181.71	181.31	183.16	182.36	186.62	186.99	184.27
23	182.85	182.28	181.99	181.76	181.48	181.44	181.44	182.76	182.23	187.31	186.75	184.13
24	182.91	182.28	181.95	181.57	181.51	181.29	181.44	182.13	182.24	187.60	187.01	184.08
25	183.07	182.01	181.78	181.40	181.51	181.26	181.34	181.92	182.47	187.60	187.62	184.12
26	183.07	182.02	181.70	181.57	181.48	181.27	181.42	181.85	182.69	186.99	187.62	184.07
27	182.85	182.38	181.51	181.58	181.30	181.16	181.40	181.73	182.73	185.67	187.34	183.97
28	182.52	182.40	181.70	181.63	181.29	181.40	181.05	181.70	182.70	185.29	186.68	184.01
29	182.37	182.26	181.71	181.55	181.19	181.49	181.17	181.60	182.51	185.01	185.61	183.94
30	182.38	182.37	181.64	181.55	---	181.55	181.28	181.76	182.29	184.40	187.22	183.64
31	182.63	---	181.76	181.41	---	181.55	---	181.76	---	184.16	188.18	---
MEAN	182.88	182.40	182.00	181.77	181.56	181.46	181.34	181.93	182.89	183.89	187.00	185.82
MAX	183.36	182.71	182.48	182.09	181.81	181.86	181.64	183.16	184.16	187.60	188.81	188.19
MIN	182.37	182.01	181.51	181.40	181.19	181.16	181.02	181.18	181.83	181.91	183.31	183.64

404620101433401 Local number 9N 39W 2DDDD1 Grant South

LOCATION—Lat 40°46'20", long 101°43'34", SE ¼ SE ¼ SE ¼ SE ¼ sec. 2, T.9N., R.39W., Hydrologic Unit 10250006.

AQUIFER—Ogallala formation of Tertiary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 5 in., depth 225 ft, perforated 205 to 225 ft.

DATUM—Altitude of land-surface datum is 3,413 ft. Measuring point: top of casing 2.00 ft above land-surface datum.

PERIOD OF RECORD—June 1974 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 107.67 ft. below land-surface datum, June 6, 1974; lowest, 202.27 ft below land-surface datum, Aug. 27, 2004.

STATION NUMBER 404620101433401 9N 39W 2DDDD1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183.91	181.12	179.58	177.89	176.95	176.28	177.55	176.37	185.42	188.89	185.85	196.01
2	183.83	180.96	179.48	177.77	177.05	176.43	177.68	176.48	186.95	184.50	185.72	196.32
3	183.87	180.87	179.24	177.83	177.05	176.43	177.71	176.96	182.67	183.16	192.38	196.13
4	183.87	180.70	179.33	178.00	176.96	176.38	177.62	176.98	182.81	182.78	194.97	195.71
5	183.41	180.77	179.38	178.18	177.00	176.18	177.29	176.84	182.79	181.01	196.50	190.89
6	182.99	180.79	179.29	178.18	177.08	176.35	177.31	177.59	182.05	185.41	196.84	190.72
7	183.03	180.79	178.91	178.09	177.08	176.53	177.25	177.69	181.20	190.30	196.90	195.24
8	182.78	180.75	178.71	177.89	176.96	176.57	177.27	178.10	182.04	191.05	193.22	195.95
9	182.51	180.71	178.85	177.97	177.00	176.57	177.27	178.43	186.20	187.40	191.18	196.15
10	182.23	180.47	178.85	177.97	177.01	176.41	177.19	178.68	184.26	185.89	190.42	195.88
11	182.29	180.25	178.75	177.77	177.05	176.45	177.01	182.19	182.50	185.17	189.01	190.41
12	182.29	180.41	178.71	177.79	177.08	176.42	176.72	186.10	182.50	184.34	188.58	189.36
13	182.11	180.43	178.67	177.80	176.99	176.23	176.69	186.64	182.06	185.13	188.28	187.75
14	182.13	180.15	178.55	177.71	176.80	176.29	176.48	186.64	188.50	191.39	188.83	188.28
15	182.03	179.92	178.43	177.64	176.80	176.15	176.23	183.19	189.77	191.93	193.38	189.03
16	182.09	179.86	178.62	177.37	176.86	176.15	176.32	181.59	186.33	193.42	195.22	189.03
17	182.18	179.70	178.67	177.44	176.88	176.02	176.71	182.01	184.02	194.00	195.59	188.80
18	182.50	179.75	178.75	177.46	176.83	176.05	177.55	181.99	183.10	194.61	196.17	188.05
19	182.95	179.80	178.75	177.46	176.54	176.09	177.59	181.04	182.58	194.01	196.97	187.08
20	183.56	179.68	178.61	177.42	176.57	177.12	176.97	180.43	182.05	195.46	197.00	186.61
21	183.55	179.66	178.30	177.44	176.57	177.23	176.52	186.09	181.51	196.26	193.66	186.38
22	182.99	179.58	178.40	177.45	176.50	177.22	176.46	187.99	181.27	196.74	191.82	185.78
23	182.56	179.65	178.40	177.38	176.57	177.08	176.54	184.22	181.05	192.51	195.61	184.95
24	182.15	179.65	178.33	177.19	176.59	177.00	176.51	181.23	181.06	190.70	196.83	184.60
25	182.15	179.36	178.11	176.98	176.58	177.19	176.33	180.42	181.20	189.89	196.60	184.44
26	182.12	179.31	178.01	177.14	176.52	177.39	176.39	179.98	181.23	188.61	190.57	184.25
27	181.75	179.66	177.81	177.15	176.33	177.22	176.34	179.47	181.20	187.61	188.81	183.97
28	181.32	179.68	177.96	177.17	176.31	177.10	176.02	182.47	181.21	193.37	187.69	183.93
29	181.04	179.48	177.97	177.07	176.18	177.11	176.20	183.96	186.39	194.92	187.00	183.84
30	180.95	179.49	177.87	177.06	---	177.24	176.33	179.55	188.30	194.93	192.83	183.54
31	181.13	---	177.97	176.90	---	177.35	---	179.01	---	188.11	195.66	---
MEAN	182.52	180.11	178.62	177.57	176.78	176.65	176.87	180.98	183.47	189.79	192.58	189.30
MAX	183.91	181.12	179.58	178.18	177.08	177.39	177.71	187.99	189.77	196.74	197.00	196.32
MIN	180.95	179.31	177.81	176.90	176.18	176.02	176.02	176.37	181.05	181.01	185.72	183.54

PERKINS COUNTY

404706101282201 Local number 10N 36W 31CCCC 1 Madrid

LOCATION—Lat 40º47'06", long 101º28'22", SW ¼ SW ¼ SW ¼ SW ¼ sec. 31. T.10N., R.36W., Hydrologic Unit 10250006.

AQUIFER—Ogallala formation of Tertiary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4.0 in., depth 440 ft.

DATUM—Altitude of land-surface datum is 3,236 ft. Measuring point: top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD—June 1990 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 77.83 ft. below land-surface datum, Apr. 30, 1991; lowest, 183.87 ft below land-surface datum, Aug. 1, 2003.

STATION NUMBER 404706101282201 10N 36W31CCCC 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98.81	93.22	90.80	89.24	88.39	87.58	88.45	87.53	93.52	107.67	136.20	146.71
2	98.45	93.01	90.73	89.19	88.38	87.59	88.97	87.47	92.89	107.67	130.01	145.32
3	98.45	92.80	90.62	89.17	88.38	87.59	89.30	87.56	93.78	105.63	135.55	144.79
4	97.50	92.57	90.55	89.18	88.37	87.59	89.30	88.03	100.31	104.20	145.60	144.93
5	97.12	92.47	90.53	89.22	88.31	87.53	89.06	89.32	105.74	103.08	152.50	142.74
6	96.77	92.40	90.51	89.22	88.30	87.55	88.71	92.47	108.71	105.82	156.28	138.12
7	96.46	92.32	90.32	89.19	88.30	87.58	89.17	95.45	109.31	---	157.47	142.00
8	96.16	92.21	90.23	89.10	88.28	87.59	89.37	97.56	---	---	158.79	144.17
9	95.94	92.13	90.18	89.11	88.21	87.60	89.43	100.97	---	---	159.86	142.27
10	95.71	91.96	90.18	89.11	88.21	87.58	89.43	101.81	108.60	---	159.82	145.31
11	95.48	91.81	90.12	89.05	88.21	87.57	89.28	99.26	105.32	---	157.59	145.00
12	95.48	91.70	90.05	89.05	88.21	87.57	89.06	97.48	107.50	---	156.29	146.94
13	95.31	91.70	90.02	89.05	88.21	87.52	88.88	97.35	---	---	158.43	146.68
14	95.17	91.59	89.93	89.02	88.16	87.51	88.64	99.57	---	128.67	156.40	144.89
15	95.02	91.62	89.82	88.97	88.15	87.60	88.37	103.19	---	138.14	153.44	141.83
16	94.90	91.74	89.83	88.85	88.12	87.74	88.24	102.78	---	145.98	149.64	134.73
17	94.81	91.78	89.83	88.82	88.11	87.99	88.11	99.60	---	148.64	144.86	129.61
18	94.66	92.10	89.84	88.81	88.11	88.11	88.33	99.22	108.69	154.63	140.84	125.49
19	95.03	92.29	89.84	88.81	88.00	88.24	88.41	103.55	106.15	156.60	146.11	122.07
20	95.29	92.38	89.82	88.76	87.92	88.31	88.40	103.82	103.94	160.57	153.32	118.82
21	95.35	92.38	89.69	88.76	87.92	88.30	88.34	106.36	101.96	164.62	157.89	115.77
22	95.38	92.17	89.65	---	87.90	88.09	88.66	105.51	100.27	165.39	158.28	113.24
23	95.39	91.84	89.65	---	87.90	87.90	88.69	105.64	98.84	163.93	154.08	110.95
24	95.59	91.65	89.61	---	87.89	87.78	88.63	103.81	98.80	156.68	153.51	109.08
25	95.59	91.33	89.51	---	87.89	87.75	88.32	100.83	101.32	147.30	154.43	107.45
26	95.53	91.17	89.45	---	87.86	87.91	88.17	98.95	102.12	139.09	147.35	106.00
27	94.98	91.06	89.34	---	87.76	87.97	88.01	97.76	102.13	138.62	139.58	104.69
28	94.40	91.06	89.32	88.50	87.74	88.00	87.74	96.46	102.13	144.89	134.72	103.61
29	93.90	90.91	89.32	88.50	87.71	88.00	87.58	95.46	104.08	145.69	129.94	102.56
30	93.56	90.81	89.27	88.49	---	88.00	87.57	94.70	106.12	145.69	133.12	101.58
31	93.41	---	89.26	88.42	---	88.07	---	94.19	---	145.20	143.38	---
MEAN	95.66	91.94	89.93	---	88.10	87.80	88.62	97.86	---	---	148.88	128.91
MAX	98.81	93.22	90.80	---	88.39	88.31	89.43	106.36	---	---	159.86	146.94
MIN	93.41	90.81	89.26	---	87.71	87.51	87.57	87.47	---	---	129.94	101.58

422150097402401 Local number 28N 3W 33BA1 Osmond

LOCATION—Lat 42º21'50", long 97º40'24", NE ¼ NW ¼ sec. 33, T.28N., R. 3W., Hydrologic Unit 10220002, 3 mi west on Highway 20 from intersection of Highway 121 at Osmond, then 1 mi north and 0.6 mi west on county road.

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation well, diameter 6 in., depth 121 ft, perforated 101 to121 ft.

DATUM—Altitude of land-surface datum is 1,673 ft. Measuring point: Top of casing 1.00 ft. above land-surface datum.

PERIOD OF RECORD—November 1968 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 20.64 ft. below land-surface datum, July 3, 1999; lowest, 73.00 ft. below land-surface datum, Aug. 2, 2002.

STATION NUMBER 422150097402401 28N 3W33BA 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.36	33.08	32.14	31.44	30.94	30.50	29.75	29.94	28.96	37.58	56.90	64.93
2	35.22	33.05	32.13	31.39	30.96	30.47	29.73	30.39	28.88	39.75	58.90	66.74
3	35.05	32.99	32.05	31.39	30.96	30.47	29.73	30.90	28.95	39.22	58.45	64.71
4	34.90	32.86	32.00	31.42	30.96	30.41	29.72	30.91	29.03	35.26	61.10	62.20
5	34.78	32.85	32.01	31.46	30.94	30.30	29.69	31.02	29.28	32.60	63.14	61.37
6	34.68	32.85	32.01	31.46	30.93	30.23	29.63	31.38	29.27	31.24	63.31	58.55
7	34.67	32.83	31.93	31.43	30.92	30.32	29.62	32.41	29.09	30.48	62.25	55.67
8	34.67	32.82	31.82	31.33	30.91	30.32	29.63	34.17	28.88	29.94	63.79	59.04
9	34.65	32.80	31.83	31.31	30.85	30.26	29.63	35.17	28.75	29.53	64.00	61.53
10	34.50	32.70	31.83	31.31	30.85	30.21	29.65	35.21	28.68	29.29	63.00	62.33
11	34.33	32.58	31.82	31.27	30.87	30.19	29.65	34.89	28.58	29.25	61.85	62.09
12	34.23	32.56	31.81	31.25	30.92	30.18	29.62	33.24	28.50	29.11	62.34	63.14
13	34.14	32.60	31.79	31.27	30.91	30.13	29.61	32.12	28.47	31.30	61.55	60.88
14	34.05	32.58	31.71	31.24	30.84	30.10	29.61	31.57	28.44	36.25	59.84	55.94
15	33.97	32.47	31.65	31.21	30.85	30.10	29.54	31.21	28.43	37.12	60.07	47.97
16	33.91	32.41	31.68	31.15	30.85	30.05	29.61	30.92	28.42	37.05	60.44	43.94
17	33.89	32.39	31.68	31.12	30.86	30.00	29.72	30.70	28.46	36.31	61.27	41.60
18	33.78	32.31	31.70	31.17	30.84	29.98	29.72	30.55	28.50	37.55	63.15	39.98
19	33.70	32.31	31.70	31.17	30.77	29.98	29.73	30.43	28.55	39.85	63.98	38.83
20	33.63	32.29	31.69	31.15	30.69	30.00	29.73	30.27	28.55	42.54	62.51	38.05
21	33.61	32.29	31.59	31.13	30.72	30.06	29.62	30.15	28.50	46.30	61.67	37.40
22	33.54	32.29	31.57	31.15	30.74	30.04	29.63	30.03	28.43	50.55	63.89	36.91
23	33.48	32.22	31.58	31.13	30.77	29.97	29.65	29.91	28.40	52.72	63.29	36.42
24	33.41	32.22	31.57	31.07	30.77	29.86	29.65	29.80	28.38	54.89	60.26	35.86
25	33.39	32.17	31.54	31.05	30.77	29.83	29.56	29.67	28.50	56.42	57.74	35.39
26	33.39	32.12	31.48	31.00	30.74	29.83	29.54	29.56	29.28	57.45	60.34	34.96
27	33.29	32.18	31.44	31.04	30.69	29.82	29.53	29.42	29.45	58.07	59.53	34.54
28	33.16	32.20	31.40	31.06	30.66	29.78	29.46	29.32	29.95	59.01	61.70	34.24
29	33.09	32.19	31.43	31.05	30.62	29.80	29.42	29.31	31.16	57.97	63.27	34.06
30	33.01	32.08	31.43	31.03	---	29.81	29.50	29.23	32.99	48.86	63.85	33.78
31	33.08	---	31.45	31.01	---	29.81	---	29.11	---	52.68	64.25	---
MEAN	34.02	32.51	31.72	31.21	30.83	30.09	29.63	31.06	28.99	41.49	61.67	48.77
MAX	35.36	33.08	32.14	31.46	30.96	30.50	29.75	35.21	32.99	59.01	64.25	66.74
MIN	33.01	32.08	31.40	31.00	30.62	29.78	29.42	29.11	28.38	29.11	56.90	33.78

POLK COUNTY

411738097264301 Local number 15N 1W 9BBBB1 Shelby

LOCATION—Lat 41°17'37.6", long 97°26'42.6", NW ¼ NW ¼ NW ¼ NW ¼ sec. 9, T.15N., R. 1W., Hydrologic Unit 10200103, 7 mi north of intersection of U.S. Highway 92 and 1 mi west of Shelby.

AQUIFER—Sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 6 in., depth 51 ft, casing perforated 20 to 51 ft.

DATUM—Altitude of land-surface datum is 1,525 ft. Measuring point: Top of shelf 3 ft above land-surface datum.

PERIOD OF RECORD—October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 11.25 ft. below land-surface datum, July 18, 1993; lowest, 23.82 ft. below land-surface datum, June 22, 23, 24, 25, 26, 2004.

STATION NUMBER 411738097264301 15N 1W 9BBBB 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.81	22.58	22.89	23.16	23.35	23.47	23.60	23.65	23.74	23.61	22.27	22.28
2	21.84	22.60	22.89	23.18	23.36	23.48	23.60	23.65	23.74	23.64	22.14	22.32
3	21.88	22.61	22.89	23.17	23.37	23.49	23.60	23.65	23.75	23.64	22.19	22.40
4	21.92	22.61	22.94	23.18	23.37	23.49	23.60	23.67	23.75	23.55	22.29	22.45
5	21.95	22.63	22.95	23.18	23.38	23.47	23.60	23.67	23.76	23.40	22.34	22.51
6	21.97	22.65	22.95	23.19	23.38	23.47	23.60	23.67	23.76	23.46	22.34	22.55
7	22.01	22.66	22.96	23.19	23.39	23.49	23.61	23.67	23.77	23.40	22.14	22.61
8	22.03	22.68	22.97	23.19	23.39	23.49	23.61	23.68	23.77	23.36	22.11	22.65
9	22.04	22.69	22.98	23.19	23.40	23.50	23.61	23.68	23.78	23.29	22.14	22.69
10	22.12	22.70	22.98	23.21	23.40	23.50	23.63	23.70	23.78	23.16	21.93	22.72
11	22.14	22.71	22.99	23.21	23.40	23.50	23.63	23.70	23.78	23.15	21.95	22.76
12	22.17	22.71	23.00	23.22	23.41	23.50	23.63	23.70	23.78	23.11	21.95	22.79
13	22.20	22.73	23.02	23.22	23.42	23.50	23.63	23.70	23.78	23.09	21.94	22.82
14	22.22	22.73	23.02	23.23	23.42	23.50	23.64	23.71	23.79	23.03	21.88	22.86
15	22.24	22.75	23.03	23.23	23.42	23.50	23.63	23.71	23.79	22.83	21.98	22.90
16	22.28	22.76	23.04	23.24	23.43	23.54	23.63	23.72	23.79	22.82	22.04	22.93
17	22.30	22.77	23.05	23.23	23.44	23.54	23.63	23.72	23.80	22.35	22.09	22.95
18	22.31	22.77	23.06	23.24	23.44	23.54	23.63	23.72	23.80	22.35	22.13	22.98
19	22.33	22.79	23.07	23.24	23.44	23.56	23.64	23.72	23.81	22.27	22.20	23.02
20	22.35	22.79	23.08	23.24	23.46	23.57	23.64	23.72	23.81	22.30	22.25	23.04
21	22.37	22.79	23.09	23.25	23.47	23.57	23.64	23.72	23.81	22.29	22.30	23.10
22	22.39	22.79	23.10	23.25	23.47	23.57	23.65	23.72	23.82	22.32	22.35	23.13
23	22.41	22.79	23.11	23.25	23.47	23.57	23.65	23.73	23.82	22.27	22.41	23.13
24	22.41	22.83	23.11	23.25	23.47	23.57	23.65	23.73	23.82	22.26	22.42	23.15
25	22.42	22.85	23.12	23.25	23.49	23.58	23.66	23.74	23.82	22.31	22.38	23.17
26	22.44	22.86	23.13	23.25	23.49	23.59	23.66	23.73	23.82	22.39	22.05	23.19
27	22.48	22.86	23.13	23.29	23.50	23.59	23.66	23.74	23.71	22.43	21.99	23.22
28	22.49	22.87	23.13	23.33	23.50	23.59	23.66	23.74	23.71	22.31	22.04	23.23
29	22.51	22.88	23.15	23.33	23.50	23.59	23.65	23.74	23.61	22.37	22.10	23.24
30	22.53	22.89	23.15	23.33	---	23.59	23.65	23.74	23.55	22.45	22.15	23.26
31	22.55	---	23.15	23.33	---	23.59	---	23.74	---	22.45	22.24	---
MEAN	22.23	22.74	23.04	23.23	23.43	23.53	23.63	23.71	23.77	22.83	22.15	22.87
MAX	22.55	22.89	23.15	23.33	23.50	23.59	23.66	23.74	23.82	23.64	22.42	23.26
MIN	21.81	22.58	22.89	23.16	23.35	23.47	23.60	23.65	23.55	22.26	21.88	22.28

SARPY COUNTY

410159096181001 Local number 12N 10E 4CDAA1 m90-34r

LOCATION—Lat 41º01'59", long 96º18'10", NE ¼ NE ¼ SE ¼ SW ¼ sec. 4, T.12N., R.10E., Hydrologic Unit 10200202, located at near Ashland.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 6 in., depth of well is 80 ft, casing perforated 40 to 80 ft.

DATUM—Altitude of land-surface datum is1,052 ft. Measuring point: Top of casing 3.30 ft. above land-surface datum.

PERIOD OF RECORD—January 1994 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 0.79 ft. below land-surface datum, Dec. 31, 1998; lowest, 6.37 ft. below land-surface datum, Jan. 7, 2003.

STATION NUMBER 410159096181001 12N 10E 4CDAA 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.83	5.60	5.51	5.30	5.22	3.80	4.67	5.19	4.57	5.68	5.75	6.08
2	5.66	5.70	5.34	5.33	4.96	3.67	4.82	5.22	4.46	5.69	5.81	6.11
3	5.96	5.59	5.22	5.22	4.28	3.82	4.92	5.31	4.71	5.32	5.90	6.14
4	6.02	5.23	5.32	5.70	4.28	3.98	5.00	5.30	5.02	5.37	5.86	6.20
5	5.99	5.32	5.36	6.11	4.21	3.98	5.02	5.32	5.13	5.13	5.69	6.11
6	5.88	5.34	5.39	6.34	4.07	3.86	4.99	5.32	5.22	4.88	5.69	6.10
7	5.90	5.41	5.50	6.37	4.02	4.13	4.99	5.38	5.20	4.92	5.75	6.17
8	5.89	5.43	5.50	5.94	4.03	4.28	5.03	5.52	5.19	4.65	5.86	6.17
9	5.91	5.45	5.29	5.76	3.89	4.46	5.17	5.48	5.29	4.68	5.88	6.20
10	5.89	5.48	5.81	5.80	3.88	4.49	5.25	5.35	5.43	4.27	5.90	6.16
11	5.84	5.61	5.78	5.78	3.89	4.59	5.02	5.37	5.46	4.06	5.86	6.18
12	5.84	5.51	5.64	5.77	3.82	4.70	5.07	5.43	5.47	4.51	5.94	6.15
13	5.73	5.56	5.40	5.53	3.78	4.76	5.08	5.36	4.50	4.54	5.92	6.17
14	5.64	5.53	5.37	5.49	3.86	4.79	5.01	5.38	4.69	4.88	5.96	6.26
15	5.75	5.57	5.23	5.55	3.87	4.78	5.13	5.46	4.91	4.94	5.94	6.23
16	5.71	5.48	5.23	5.26	3.91	4.77	5.21	5.41	5.04	4.96	5.98	6.14
17	5.73	5.54	5.29	4.82	3.93	4.76	5.22	5.39	5.17	4.96	5.99	6.03
18	5.76	5.53	5.24	4.76	3.84	4.74	5.27	5.35	5.30	5.11	5.99	5.95
19	5.77	5.59	5.29	4.83	3.80	4.81	5.28	5.23	4.59	5.19	6.17	5.92
20	5.78	5.58	5.16	4.82	3.86	4.93	5.32	5.10	4.97	5.36	6.04	5.74
21	5.76	5.58	5.06	4.94	3.86	4.93	5.28	5.17	5.00	5.43	6.20	5.77
22	5.84	5.49	5.08	4.97	3.90	4.86	5.32	5.24	4.93	5.49	6.30	5.35
23	5.84	5.54	4.94	5.17	3.79	4.87	5.27	4.04	5.02	5.42	6.28	5.53
24	5.80	5.48	5.01	5.08	3.71	4.90	5.16	2.76	5.06	5.48	6.23	5.70
25	5.74	5.72	5.03	5.11	3.66	4.90	4.92	3.24	5.20	5.38	5.86	5.75
26	5.75	5.78	5.02	5.32	3.68	5.01	4.97	3.91	5.28	5.56	5.94	5.25
27	5.74	5.51	4.94	5.53	4.22	5.01	5.00	4.41	5.36	5.63	6.02	5.33
28	5.76	5.57	4.84	5.52	4.24	4.68	5.05	4.64	5.50	5.69	6.01	5.38
29	5.71	5.58	5.11	5.14	4.02	4.62	5.12	4.84	5.53	5.67	6.02	5.44
30	5.65	5.55	5.17	5.20	---	4.59	5.16	4.84	5.61	5.69	6.06	5.50
31	5.54	---	5.22	5.23	---	4.58	---	4.64	---	5.72	5.96	---
MEAN	5.79	5.53	5.27	5.41	4.02	4.55	5.09	4.99	5.09	5.17	5.96	5.91
MAX	6.02	5.78	5.81	6.37	5.22	5.01	5.32	5.52	5.61	5.72	6.30	6.26
MIN	5.54	5.23	4.84	4.76	3.66	3.67	4.67	2.76	4.46	4.06	5.69	5.25

410250096185401 Local number 13N 10E 32DDBC1 m90-54r

LOCATION—Lat 41º02'50", long 96º18'54", SW ¼ NW ¼ SE ¼ SE ¼ sec. 32, T.13N., R.10E., Hydrologic Unit 10200202, located near Ashland.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 58 ft., casing perforated 53 to 58 ft.

DATUM—Altitude of land-surface datum is 1,055.19 ft. Measuring point: Top of casing 2.80 ft. above land-surface datum.

PERIOD OF RECORD—October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 0.35 ft. above land-surface datum, Feb. 21, 1997; lowest, 13.10 ft. below land-surface datum, Oct. 4, 2000.

STATION NUMBER 410159096181001 12N 10E 4CDAA 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.83	5.60	5.51	5.30	5.22	3.80	4.67	5.19	4.57	5.68	5.75	6.08
2	5.66	5.70	5.34	5.33	4.96	3.67	4.82	5.22	4.46	5.69	5.81	6.11
3	5.96	5.59	5.22	5.22	4.28	3.82	4.92	5.31	4.71	5.32	5.90	6.14
4	6.02	5.23	5.32	5.70	4.28	3.98	5.00	5.30	5.02	5.37	5.86	6.20
5	5.99	5.32	5.36	6.11	4.21	3.98	5.02	5.32	5.13	5.13	5.69	6.11
6	5.88	5.34	5.39	6.34	4.07	3.86	4.99	5.32	5.22	4.88	5.69	6.10
7	5.90	5.41	5.50	6.37	4.02	4.13	4.99	5.38	5.20	4.92	5.75	6.17
8	5.89	5.43	5.50	5.94	4.03	4.28	5.03	5.52	5.19	4.65	5.86	6.17
9	5.91	5.45	5.29	5.76	3.89	4.46	5.17	5.48	5.29	4.68	5.88	6.20
10	5.89	5.48	5.81	5.80	3.88	4.49	5.25	5.35	5.43	4.27	5.90	6.16
11	5.84	5.61	5.78	5.78	3.89	4.59	5.02	5.37	5.46	4.06	5.86	6.18
12	5.84	5.51	5.64	5.77	3.82	4.70	5.07	5.43	5.47	4.51	5.94	6.15
13	5.73	5.56	5.40	5.53	3.78	4.76	5.08	5.36	4.50	4.54	5.92	6.17
14	5.64	5.53	5.37	5.49	3.86	4.79	5.01	5.38	4.69	4.88	5.96	6.26
15	5.75	5.57	5.23	5.55	3.87	4.78	5.13	5.46	4.91	4.94	5.94	6.23
16	5.71	5.48	5.23	5.26	3.91	4.77	5.21	5.41	5.04	4.96	5.98	6.14
17	5.73	5.54	5.29	4.82	3.93	4.76	5.22	5.39	5.17	4.96	5.99	6.03
18	5.76	5.53	5.24	4.76	3.84	4.74	5.27	5.35	5.30	5.11	5.99	5.95
19	5.77	5.59	5.29	4.83	3.80	4.81	5.28	5.23	4.59	5.19	6.17	5.92
20	5.78	5.58	5.16	4.82	3.86	4.93	5.32	5.10	4.97	5.36	6.04	5.74
21	5.76	5.58	5.06	4.94	3.86	4.93	5.28	5.17	5.00	5.43	6.20	5.77
22	5.84	5.49	5.08	4.97	3.90	4.86	5.32	5.24	4.93	5.49	6.30	5.35
23	5.84	5.54	4.94	5.17	3.79	4.87	5.27	4.04	5.02	5.42	6.28	5.53
24	5.80	5.48	5.01	5.08	3.71	4.90	5.16	2.76	5.06	5.48	6.23	5.70
25	5.74	5.72	5.03	5.11	3.66	4.90	4.92	3.24	5.20	5.38	5.86	5.75
26	5.75	5.78	5.02	5.32	3.68	5.01	4.97	3.91	5.28	5.56	5.94	5.25
27	5.74	5.51	4.94	5.53	4.22	5.01	5.00	4.41	5.36	5.63	6.02	5.33
28	5.76	5.57	4.84	5.52	4.24	4.68	5.05	4.64	5.50	5.69	6.01	5.38
29	5.71	5.58	5.11	5.14	4.02	4.62	5.12	4.84	5.53	5.67	6.02	5.44
30	5.65	5.55	5.17	5.20	---	4.59	5.16	4.84	5.61	5.69	6.06	5.50
31	5.54	---	5.22	5.23	---	4.58	---	4.64	---	5.72	5.96	---
MEAN	5.79	5.53	5.27	5.41	4.02	4.55	5.09	4.99	5.09	5.17	5.96	5.91
MAX	6.02	5.78	5.81	6.37	5.22	5.01	5.32	5.52	5.61	5.72	6.30	6.26
MIN	5.54	5.23	4.84	4.76	3.66	3.67	4.67	2.76	4.46	4.06	5.69	5.25

SARPY COUNTY

410250096185902 Local number 13N 10E 32DCAC2 m90-29r

LOCATION—Lat 41º02'50", long 96º18'59", SW ¼ NE ¼ SW ¼ SE ¼ sec. 32, T.13N., R.10E., Hydrologic Unit 10200202, located near Ashland.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter in., depth is not determined, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,059.49 ft. Measuring point: Top of casing 3.20 ft above land-surface datum.

PERIOD OF RECORD—March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 1.33 ft. below land-surface datum, Feb. 21, 1997; lowest, 10.99 ft. below land-surface datum, Oct. 4, 2000.

STATION NUMBER 410250096185902 13N 10E 32DCAC 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.94	5.72	5.62	7.92	5.86	3.81	7.26	7.06	4.60	6.40	7.48	---
2	5.71	5.86	5.38	7.40	5.85	3.79	7.38	7.16	4.42	6.77	7.69	---
3	6.08	5.77	5.26	7.02	5.75	3.87	7.46	7.28	4.60	5.79	8.08	---
4	6.18	5.38	5.40	5.91	5.67	3.97	7.53	6.89	4.87	5.45	8.09	---
5	6.17	5.41	5.47	5.75	5.50	4.04	7.56	6.89	4.99	5.08	8.02	---
6	5.98	5.38	5.50	5.98	5.36	4.03	6.96	6.78	5.07	4.88	7.95	---
7	6.01	5.41	5.65	5.97	5.26	4.17	6.96	7.13	6.37	4.86	7.95	---
8	6.00	5.44	6.38	5.47	5.18	4.32	6.88	7.35	6.78	4.86	7.87	---
9	6.03	5.47	6.68	5.14	4.96	4.46	6.91	7.27	6.42	4.67	7.63	---
10	6.01	5.49	7.04	5.19	4.91	4.49	6.84	6.40	6.53	4.41	7.68	---
11	5.98	5.65	7.14	5.25	4.88	4.59	6.58	6.60	6.62	4.07	7.76	---
12	6.00	5.56	7.12	5.24	4.69	4.66	6.48	6.79	6.57	4.56	7.93	---
13	5.82	5.63	7.02	5.07	6.19	4.74	6.76	5.70	5.25	4.64	7.93	---
14	5.68	5.59	7.09	5.20	6.75	4.75	7.05	5.53	4.97	5.16	7.96	---
15	5.84	5.65	7.07	5.33	6.89	4.74	6.73	5.56	5.01	5.23	7.93	---
16	5.77	5.55	6.50	5.03	7.06	4.73	6.80	5.51	5.07	5.25	8.10	---
17	5.80	5.59	6.25	4.61	7.22	6.55	6.81	5.45	5.19	5.23	8.41	---
18	5.82	5.61	6.25	4.75	7.26	5.81	6.81	5.59	5.31	5.38	8.58	---
19	5.84	7.64	6.28	4.83	7.17	5.98	7.00	5.36	4.63	5.46	8.65	---
20	5.87	8.44	6.21	4.79	7.13	6.11	7.32	5.16	4.91	5.62	8.69	---
21	5.84	7.23	6.16	4.95	5.52	6.11	6.96	5.11	5.06	5.71	8.71	---
22	5.97	6.03	6.22	5.02	4.57	6.09	6.85	5.21	5.12	6.33	8.76	---
23	6.01	5.68	6.32	5.26	5.41	6.17	6.64	4.58	5.03	6.68	8.75	---
24	5.97	5.63	6.34	5.23	5.42	6.22	6.51	3.05	5.06	6.81	8.56	---
25	5.93	5.97	6.20	5.33	5.31	6.82	5.51	3.52	5.18	6.81	---	---
26	5.95	6.05	6.18	5.51	5.29	7.11	5.99	4.11	5.24	6.94	---	---
27	5.90	5.78	5.19	5.83	4.39	6.78	6.28	4.48	5.31	7.03	---	---
28	5.94	5.74	4.83	5.84	4.30	6.26	6.38	4.64	5.44	7.12	---	---
29	5.87	5.76	6.75	5.59	4.03	6.79	6.44	4.78	5.49	7.13	---	---
30	5.80	5.67	7.48	5.65	---	7.03	6.82	4.82	5.57	7.39	---	---
31	5.65	---	7.80	5.83	---	7.17	---	4.83	---	7.49	---	---
MEAN	5.91	5.86	6.28	5.54	5.65	5.36	6.82	5.70	5.36	5.78	---	---
MAX	6.18	8.44	7.80	7.92	7.26	7.17	7.56	7.35	6.78	7.49	---	---
MIN	5.65	5.38	4.83	4.61	4.03	3.79	5.51	3.05	4.42	4.07	---	---

SARPY COUNTY

410252096185501 Local number 13N 10E 32DCAD1 m90-50r

LOCATION—Lat 41º02'52", long 96º18'55", SE ¼ NE ¼ SW ¼ SE ¼ sec. 32, T.13N., R.10E., Hydrologic Unit 10200202, located near Ashland.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 70 ft., casing perforated 65 to 70 ft.

DATUM—Altitude of land-surface datum is 1,056.01 ft. Measuring point: Top of casing 2.70 ft. above land-surface datum.

PERIOD OF RECORD—March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 0.33 ft. below land-surface datum, Feb. 21, 1997; lowest, 19.58 ft. below land-surface datum, Oct. 4, 2000.

STATION NUMBER 410252096185501 13N 10E 32DCAD 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.45	5.22	5.30	12.21	4.99	3.49	11.31	9.84	4.28	8.22	9.23	11.56
2	5.30	5.32	5.10	10.38	4.96	3.44	11.37	9.92	4.12	8.54	10.16	12.35
3	5.56	5.24	5.00	8.87	4.82	3.49	11.41	10.22	4.29	5.33	11.24	12.43
4	5.61	5.01	5.11	5.51	4.75	3.60	11.44	8.59	4.53	4.93	11.27	11.67
5	5.60	5.02	5.16	5.33	4.59	3.70	11.45	9.34	4.63	4.66	11.04	11.69
6	5.47	5.01	5.17	5.53	4.44	3.68	9.92	9.43	4.69	4.50	11.00	8.40
7	5.48	5.05	5.32	5.53	4.39	3.82	10.13	9.60	9.52	4.49	10.97	9.69
8	5.47	5.07	8.72	5.00	4.37	3.96	9.52	9.75	10.03	6.14	10.21	11.98
9	5.49	5.08	9.41	4.79	4.18	4.09	9.39	9.66	9.04	4.32	9.41	12.17
10	5.47	5.12	9.56	4.82	4.13	4.12	8.92	7.63	8.33	4.04	9.58	12.36
11	5.46	5.24	9.69	4.84	4.12	4.21	8.42	8.39	8.35	3.76	10.27	12.45
12	5.44	5.18	9.74	4.83	3.97	4.29	8.42	8.53	8.06	4.20	10.31	12.47
13	5.34	5.23	10.27	4.65	9.64	4.38	10.05	5.20	4.82	4.25	10.34	12.51
14	5.24	5.20	10.49	4.71	10.28	4.38	10.48	4.98	4.62	4.52	10.37	12.28
15	5.33	5.26	10.53	4.77	10.45	4.38	8.86	4.99	4.64	4.59	10.37	13.39
16	5.28	5.18	8.28	4.53	10.60	4.37	8.89	4.96	4.70	4.61	11.13	14.36
17	5.29	5.21	8.10	4.16	11.22	15.78	8.98	4.92	4.79	4.61	12.28	11.62
18	5.30	5.24	8.05	4.04	11.29	7.73	8.96	7.62	4.88	4.74	12.49	11.26
19	5.31	14.94	8.10	4.12	11.03	7.86	10.61	4.86	4.25	4.81	12.54	11.62
20	5.33	16.08	8.05	4.05	11.11	7.96	13.98	4.72	4.52	4.95	12.65	12.02
21	5.31	9.20	8.03	4.16	4.79	7.97	8.89	4.68	4.64	5.02	12.66	12.18
22	5.39	5.60	8.26	4.25	3.81	7.94	9.60	4.77	4.68	7.69	12.73	9.56
23	5.42	5.25	9.96	4.52	9.63	8.20	8.31	3.95	4.57	7.98	12.75	10.23
24	5.40	5.23	8.82	4.48	6.82	8.20	8.17	2.80	4.60	8.14	12.67	10.44
25	5.37	5.49	8.43	4.50	6.71	10.83	5.05	3.22	4.68	8.17	11.25	10.54
26	5.38	5.58	8.33	4.62	8.93	11.49	7.85	3.79	4.73	8.26	10.18	10.43
27	5.35	5.31	4.79	4.91	3.57	8.91	8.31	4.15	4.79	8.34	10.51	11.71
28	5.38	5.32	4.58	4.93	3.70	8.17	8.37	4.31	4.89	8.63	10.51	11.94
29	5.33	5.33	10.99	4.78	3.70	10.73	8.39	4.46	4.93	8.74	10.50	12.05
30	5.28	5.35	11.82	4.85	---	11.13	9.65	4.48	4.99	9.52	10.91	12.11
31	5.18	---	12.13	4.98	---	11.25	---	4.48	---	9.50	11.02	---
MEAN	5.39	6.05	8.11	5.28	6.59	6.70	9.50	6.39	5.49	6.14	11.05	11.65
MAX	5.61	16.08	12.13	12.21	11.29	15.78	13.98	10.22	10.03	9.52	12.75	14.36
MIN	5.18	5.01	4.58	4.04	3.57	3.44	5.05	2.80	4.12	3.76	9.23	8.40

SARPY COUNTY

410252096185701 Local number 13N 10E 32DCAA1 m90-58r

LOCATION—Lat 41º02'52", long 96º18'57", NE ¼ NE ¼ SW ¼ SE ¼ sec. 32, T.13N., R.10E., Hydrologic Unit 10200202, located near Ashland.

AQUIFER—Sand and gravel deposits, undifferentiated of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 59 ft., casing perforated 54 to 59 ft.

DATUM—Altitude of land-surface datum is 1,054.95 ft. Measuring point: Top of casing 3.50 ft. above land-surface datum.

PERIOD OF RECORD—March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 1.27 ft. above land-surface datum, Feb. 21, 1997; lowest, 13.80 ft. below land-surface datum, Oct. 4, 2000.

STATION NUMBER 410252096185701 13N 10E32DCAA1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.62	3.36	3.35	8.27	3.33	1.62	7.55	6.60	2.40	5.34	6.40	8.16
2	3.44	3.48	3.11	7.03	3.31	1.58	7.62	6.70	2.23	5.72	6.92	8.74
3	3.73	3.39	3.02	6.12	3.20	1.64	7.68	6.91	2.40	3.68	7.70	8.80
4	3.81	3.09	3.14	3.78	3.12	1.73	7.72	5.94	2.63	3.10	7.76	8.28
5	3.80	3.13	3.20	3.46	2.96	1.83	7.75	6.18	2.75	2.80	7.79	8.28
6	3.64	3.11	3.21	3.63	2.82	1.83	6.57	6.08	2.82	2.62	7.76	5.91
7	3.66	3.13	3.37	3.66	2.76	1.96	6.66	6.47	5.97	2.60	7.73	6.80
8	3.66	3.16	5.54	3.22	2.70	2.11	6.36	6.67	6.55	3.34	7.25	8.22
9	3.67	3.17	6.04	2.91	2.51	2.24	6.30	6.59	5.72	2.43	6.68	8.60
10	3.66	3.19	6.36	2.94	2.45	2.28	6.04	4.92	5.51	2.19	6.81	8.80
11	3.65	3.33	6.50	3.00	2.43	2.38	5.66	5.56	5.57	1.83	7.20	8.88
12	3.63	3.28	6.50	2.99	2.28	2.45	5.56	5.72	5.40	2.28	7.34	8.90
13	3.50	3.33	6.74	2.82	5.96	2.53	6.46	3.52	3.20	2.35	7.36	8.92
14	3.39	3.29	6.93	2.88	6.73	2.54	6.91	3.19	2.72	2.61	7.41	8.80
15	3.50	3.35	6.96	2.97	6.92	2.54	5.91	3.19	2.75	2.69	7.40	9.12
16	3.44	3.27	5.54	2.74	7.08	2.53	5.96	3.16	2.80	2.71	7.89	9.95
17	3.45	3.29	5.23	2.33	7.50	8.56	5.98	3.11	2.91	2.70	8.70	8.39
18	3.47	3.32	5.21	2.31	7.56	4.82	5.96	4.03	3.01	2.83	8.92	7.97
19	3.48	9.18	5.25	2.39	7.42	5.02	6.75	3.03	2.42	2.90	8.99	8.14
20	3.51	10.37	5.19	2.34	7.43	5.14	8.15	2.88	2.62	3.05	9.07	8.33
21	3.48	6.45	5.14	2.46	3.36	5.15	6.13	2.81	2.76	3.13	9.10	8.49
22	3.58	3.89	5.30	2.54	2.14	5.12	6.29	2.92	2.81	4.87	9.15	6.84
23	3.61	3.36	5.98	2.80	5.08	5.30	5.60	2.34	2.71	5.22	9.16	6.94
24	3.60	3.30	5.67	2.78	4.19	5.32	5.44	0.89	2.74	5.41	9.04	7.18
25	3.54	3.60	5.39	2.82	4.11	6.91	3.38	1.32	2.84	5.44	7.93	7.27
26	3.56	3.70	5.34	2.95	4.96	7.46	4.93	1.89	2.89	5.53	7.22	6.98
27	3.51	3.48	3.04	3.26	1.95	6.08	5.39	2.25	2.95	5.62	7.45	7.86
28	3.54	3.39	2.64	3.29	1.84	5.37	5.46	2.41	3.07	5.76	7.46	8.12
29	3.48	3.41	6.84	3.10	1.83	6.90	5.48	2.56	3.11	5.86	7.45	8.23
30	3.44	3.40	7.80	3.16	---	7.32	6.34	2.59	3.18	6.45	7.69	8.30
31	3.31	---	8.17	3.30	---	7.46	---	2.60	---	6.48	7.77	---
MEAN	3.56	3.87	5.22	3.36	4.14	4.06	6.27	4.03	3.38	3.86	7.82	8.14
MAX	3.81	10.37	8.17	8.27	7.56	8.56	8.15	6.91	6.55	6.48	9.16	9.95
MIN	3.31	3.09	2.64	2.31	1.83	1.58	3.38	0.89	2.23	1.83	6.40	5.91

SARPY COUNTY

410254096185401 Local number 13N 10E 32DDBB1 m90-56r

LOCATION—Lat 41º02'54", long 96º18'54", NW ¼ NW ¼ SE ¼ SE ¼ sec. 32, T.13N., R.10E., Hydrologic Unit 10200202 , located near Ashland.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 70 ft., casing perforated 65 to 70 ft.

DATUM—Altitude of land-surface datum is 1,056 ft. Measuring point: Top of casing 3.50 ft above land-surface datum.

PERIOD OF RECORD—March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 6.12 ft. below land-surface datum, Sept. 16 2001; lowest, 33.30 ft. below land-surface datum, Apr. 9, 2001.

STATION NUMBER 410254096185401 13N 10E32DDBB1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.77	11.55	11.68	22.02	11.38	10.03	20.76	18.49	10.75	16.57	17.52	20.76
2	11.63	11.64	11.48	19.18	11.34	9.98	20.81	18.55	10.60	16.78	19.02	21.91
3	11.88	11.36	11.39	16.77	11.18	10.02	20.85	19.01	10.78	11.60	20.56	21.99
4	11.93	11.36	11.49	11.90	11.12	10.14	20.86	16.33	11.02	11.34	20.56	20.66
5	11.91	11.37	11.55	11.82	10.96	10.24	20.87	17.83	11.13	11.09	20.11	20.71
6	11.79	11.37	11.55	12.04	10.81	10.22	18.81	18.33	11.17	10.94	20.02	16.04
7	11.81	11.41	11.70	12.04	10.76	10.35	19.11	18.10	18.90	10.95	19.99	17.94
8	11.80	11.43	16.85	11.46	10.78	10.48	18.03	18.22	19.14	14.36	18.76	21.56
9	11.81	11.44	17.82	11.28	10.56	10.61	17.81	18.10	17.82	10.77	17.62	21.48
10	11.79	11.49	18.00	11.28	10.52	10.64	17.02	15.41	16.34	10.45	17.83	21.65
11	11.76	11.59	18.03	---	10.52	10.73	16.36	16.38	16.27	10.23	19.04	21.73
12	11.77	11.53	18.15	---	10.39	10.82	16.46	16.50	15.82	10.65	18.91	21.74
13	11.67	11.59	19.11	---	19.43	10.89	19.21	11.53	11.05	10.70	18.96	21.79
14	11.58	11.55	19.39	---	19.96	10.91	19.64	11.40	11.07	10.97	18.98	21.39
15	11.66	11.63	19.46	---	20.13	10.91	17.01	11.41	11.10	11.04	19.00	23.86
16	11.62	11.55	15.91	---	20.28	10.91	17.03	11.38	11.15	11.05	20.21	24.87
17	11.62	11.59	15.93	---	21.28	30.65	17.26	11.35	11.24	11.05	21.93	20.28
18	11.63	11.60	15.85	---	21.35	15.77	17.25	17.13	11.32	11.18	22.12	19.97
19	11.63	26.70	15.93	---	21.04	15.83	20.28	11.29	10.71	11.25	22.16	20.65
20	11.65	27.88	15.91	---	21.11	15.93	26.89	11.17	10.98	11.38	22.28	21.32
21	11.63	16.89	15.92	10.55	11.03	15.93	16.82	11.16	11.09	11.44	22.29	21.48
22	11.71	11.85	16.28	10.65	10.22	15.91	18.31	11.22	11.12	15.76	22.35	17.38
23	11.74	11.61	19.74	10.92	21.79	16.29	16.10	10.17	11.01	16.00	22.37	18.85
24	11.72	11.62	17.17	10.86	14.92	16.29	15.98	9.30	11.03	16.15	22.31	19.06
25	11.69	11.86	16.60	10.90	14.86	20.49	11.39	9.71	11.10	16.16	20.34	19.16
26	11.70	11.94	16.44	11.01	19.18	21.36	15.86	10.28	11.15	16.24	18.66	19.29
27	11.67	11.69	11.18	11.30	9.97	16.96	16.38	10.64	11.20	16.32	19.15	21.25
28	11.70	11.68	11.08	11.30	10.25	16.15	16.43	10.79	11.30	16.86	19.13	21.34
29	11.65	11.69	20.85	11.17	10.25	20.27	16.44	10.93	11.33	16.97	19.11	21.46
30	11.61	11.72	21.61	11.26	---	20.67	18.35	10.96	11.39	18.15	19.81	21.50
31	11.52	---	21.92	11.37	---	20.73	---	10.96	---	18.07	20.02	---
MEAN	11.71	12.81	16.00	---	14.39	14.42	18.15	13.68	12.34	13.31	20.04	20.77
MAX	11.93	27.88	21.92	---	21.79	30.65	26.89	19.01	19.14	18.15	22.37	24.87
MIN	11.52	11.36	11.08	---	9.97	9.98	11.39	9.30	10.60	10.23	17.52	16.04

SARPY COUNTY

410308096190701 Local number 13N 10E 32DBBA m90-m28r

LOCATION—Lat 41º03'08", long 096º19'07", NE 1/4 NW 1/4 NW 1/4 SE 1/4 sec. 32, T. 13 N., R. 10 E., Hydrologic Unit 10200202, 0.5 mi south of northern end of Platte River Island 2.5 mi northeast of Ashland and approximately 1 mi south of U.S. Highway 6 and Linoma Beach Road.

AQUIFER—Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 6 in., depth 83 ft, screened 43 to 83 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1056.4 ft. Measuring point: Top of casing 4.40 ft above land-surface datum.

REMARKS—Water levels in well affected by Platte River stages. GOES system installed 1992.

PERIOD OF RECORD—August 1988 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, +2.13 ft above land-surface datum, July 25, 1993; lowest, 7.70 ft below land-surface datum, Nov. 4-5, 1993.

STATION NUMBER 410308096190701 13N 10E 32DBBA1 M28R

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.84	4.59	4.58	4.46	4.61	2.84	3.75	4.30	3.50	4.56	4.61	4.90
2	4.66	4.71	4.40	4.47	4.61	2.79	3.93	4.34	3.36	4.60	4.65	4.93
3	4.95	4.63	4.25	4.35	4.46	2.90	4.03	4.43	3.59	4.47	4.72	4.96
4	5.00	4.33	4.40	4.44	4.43	3.08	4.12	4.42	3.89	4.42	4.68	5.03
5	4.96	4.34	4.47	4.87	4.28	3.20	4.13	4.40	4.00	4.07	4.55	4.96
6	4.83	4.32	4.52	5.04	4.11	3.16	4.07	4.41	4.07	3.89	4.51	5.02
7	4.85	4.35	4.65	5.08	4.06	3.28	4.07	4.50	4.05	3.94	4.61	5.07
8	4.85	4.37	4.63	4.53	4.04	3.41	4.12	4.64	4.06	3.64	4.73	5.07
9	4.87	4.39	4.45	4.35	3.77	3.61	4.29	4.61	4.16	3.68	4.77	5.09
10	4.85	4.43	4.50	4.40	3.75	3.62	4.38	4.47	4.31	3.32	4.78	5.04
11	4.81	4.53	4.28	4.38	3.75	3.72	4.13	4.49	4.35	3.10	4.72	5.06
12	4.81	4.46	4.16	4.37	3.56	3.82	4.17	4.54	4.37	3.51	4.80	5.03
13	4.69	4.53	3.95	4.15	3.46	3.88	4.17	4.46	3.80	3.54	4.78	5.04
14	4.58	4.49	3.94	4.25	3.52	3.91	4.11	4.51	3.93	3.83	4.81	5.13
15	4.71	4.54	3.86	4.34	3.46	3.92	4.25	4.40	4.00	3.90	4.79	5.09
16	4.66	4.46	3.87	3.95	3.54	3.92	4.32	4.37	4.06	3.91	4.82	5.02
17	4.67	4.52	3.93	3.55	3.54	3.86	4.35	4.34	4.17	3.93	4.84	4.93
18	4.68	4.53	3.97	3.61	3.45	3.82	4.37	4.30	4.28	4.07	4.83	4.86
19	4.68	4.62	4.03	3.66	3.39	3.89	4.40	4.27	3.55	4.15	4.78	4.84
20	4.70	4.63	3.92	3.60	3.41	4.05	4.45	4.07	3.91	4.30	4.87	4.66
21	4.69	4.64	3.86	3.76	3.40	4.05	4.42	4.05	4.04	4.37	4.86	4.68
22	4.79	4.53	3.87	3.86	3.34	3.95	4.46	4.12	4.08	4.42	4.91	4.45
23	4.82	4.58	3.74	4.08	3.02	3.96	4.39	2.98	3.96	4.42	4.89	4.50
24	4.79	4.65	3.72	3.98	3.04	3.99	4.27	1.99	3.99	4.41	4.84	4.63
25	4.73	4.87	3.71	4.06	2.98	3.99	4.01	2.42	4.11	4.35	4.74	4.66
26	4.75	4.94	3.67	4.27	2.95	4.11	4.06	2.94	4.19	4.47	4.83	4.18
27	4.73	4.62	3.84	4.59	3.07	4.11	4.11	3.36	4.26	4.53	4.87	4.26
28	4.74	4.71	3.90	4.60	3.09	3.83	4.12	3.54	4.38	4.58	4.84	4.33
29	4.71	4.71	4.27	4.42	3.09	3.74	4.22	3.73	4.42	4.56	4.85	4.39
30	4.64	4.64	4.34	4.48	---	3.69	4.28	3.77	4.50	4.59	4.89	4.44
31	4.53	---	4.40	4.59	---	3.67	---	3.78	---	4.60	4.78	---
MEAN	4.76	4.56	4.13	4.28	3.63	3.67	4.20	4.03	4.04	4.13	4.77	4.81
MAX	5.00	4.94	4.65	5.08	4.61	4.11	4.46	4.64	4.50	4.60	4.91	5.13
MIN	4.53	4.32	3.67	3.55	2.95	2.79	3.75	1.99	3.36	3.10	4.51	4.18

SARPY COUNTY

410312096183901 Local number 13N 10E 32ADDD1 m90-30r

LOCATION—Lat 41º03'12", long 96º18'39", SE ¼ SE ¼ SE ¼ NE ¼ sec. 32, T.13N., R 10E., Hydrologic Unit 10200202, located near Ashland.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 46 ft., casing perforated 11 to 46 ft.

DATUM—Altitude of land-surface datum is 1,056 ft. Measuring point: Top of casing 3.80 ft. above land-surface datum.

PERIOD OF RECORD—March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 0.62 ft. above land-surface datum, Feb.22, 1997; lowest, 5.48 ft. below land-surface datum, Aug. 7–8, 2002.

STATION NUMBER 410312096183901 13N 10E 32ADDD1 M30R

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.83	4.59	4.61	4.24	3.78	2.64	3.45	4.05	3.72	4.26	4.63	5.02
2	4.82	4.58	4.56	4.28	3.77	2.69	3.51	4.07	3.71	4.26	4.66	e5.03
3	4.82	4.57	4.54	4.29	3.77	2.71	3.56	4.09	3.75	3.98	4.69	e5.05
4	4.84	4.49	4.50	4.28	3.75	2.73	3.60	4.11	3.80	4.05	4.70	5.06
5	4.85	4.44	4.52	4.33	3.71	2.35	3.65	4.13	3.83	4.05	4.73	5.04
6	4.84	4.43	4.52	4.39	3.66	2.35	3.68	4.16	3.88	4.04	4.74	4.98
7	4.82	4.41	4.55	4.42	3.63	2.51	3.72	4.18	3.95	4.03	4.77	4.99
8	4.82	4.41	4.56	4.41	3.60	2.65	3.76	4.22	4.01	3.97	4.79	5.00
9	4.81	4.42	4.56	4.35	3.57	2.76	3.80	4.23	4.04	3.97	4.82	5.02
10	4.79	4.40	4.53	4.33	3.54	2.89	3.84	4.22	4.09	3.95	4.84	5.05
11	4.79	4.42	4.48	4.31	3.50	3.00	3.87	4.22	4.16	3.84	4.84	5.06
12	4.75	4.44	4.46	4.31	3.48	3.08	3.89	4.23	4.18	3.82	4.85	5.06
13	4.74	4.45	4.42	4.28	3.45	3.19	3.91	4.23	3.72	3.85	4.87	5.06
14	4.71	4.44	4.38	4.23	3.43	3.26	3.92	4.24	3.74	3.87	4.89	5.05
15	4.68	4.45	4.35	4.21	3.42	3.27	3.94	4.25	3.80	3.92	4.91	5.04
16	4.67	4.45	4.33	4.19	3.40	3.10	3.97	4.26	3.86	3.98	4.93	5.02
17	4.65	4.44	4.30	4.10	3.40	3.16	3.98	4.27	3.93	4.03	4.94	5.02
18	4.64	4.43	4.29	4.03	3.39	3.25	4.01	4.25	3.96	4.08	4.96	5.02
19	4.63	4.44	4.26	3.92	3.33	3.32	4.03	4.22	3.95	4.14	4.97	5.01
20	4.63	4.45	4.25	3.84	3.26	3.41	4.05	4.21	3.92	4.21	4.98	5.00
21	4.61	4.46	4.22	3.76	3.14	3.46	4.08	4.19	3.93	4.26	5.00	4.96
22	4.62	4.45	4.20	3.71	3.04	3.50	4.10	4.19	3.98	4.27	5.03	4.50
23	4.62	4.46	4.17	3.69	2.72	3.54	4.12	4.15	4.01	4.31	5.03	4.49
24	4.62	4.47	4.14	3.69	2.70	3.58	4.12	3.89	4.02	4.32	5.04	4.52
25	4.62	4.51	4.12	3.67	2.69	3.61	3.98	3.69	4.05	4.36	5.00	4.52
26	4.62	4.56	4.12	3.65	2.72	3.63	3.96	3.58	4.07	4.40	4.94	4.48
27	4.61	4.56	4.09	3.65	2.69	3.63	3.96	3.60	4.11	4.46	4.97	4.43
28	4.61	4.57	4.09	3.67	2.73	3.27	3.98	3.66	4.15	4.49	4.95	4.43
29	4.61	4.58	4.13	3.68	2.76	3.30	4.01	3.72	4.19	4.53	4.97	4.43
30	4.61	4.61	4.17	3.71	---	3.35	4.03	3.69	4.23	4.55	4.99	4.46
31	4.59	---	4.20	3.76	---	3.40	---	3.71	---	4.59	5.01	---
MEAN	4.71	4.48	4.34	4.04	3.31	3.12	3.88	4.06	3.96	4.16	4.89	4.86
MAX	4.85	4.61	4.61	4.42	3.78	3.63	4.12	4.27	4.23	4.59	5.04	5.06
MIN	4.59	4.40	4.09	3.65	2.69	2.35	3.45	3.58	3.71	3.82	4.63	4.43

e Estimated

SARPY COUNTY

410322096191501 Local number 13N 10E 32BDAA1 m90-27r

LOCATION—Lat 41º03'22", long 96º19'15", NE ¼ NE ¼ SE ¼ NW ¼ sec. 32, T13N., R.10E., Hydrologic Unit 10200202, located near Ashland.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth is not determined, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,058.68 ft. Measuring point: Top of casing 2.70 ft above land-surface datum.

PERIOD OF RECORD—March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 1.54 ft. below land-surface datum, June 3, 1995; lowest, 26.09 ft. below land-surface datum, Aug. 20 2002.

STATION NUMBER 410322096191501 13N 10E32BDAA1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.41	5.41	13.77	5.19	19.39	9.79	4.64	6.05	4.53	15.27	11.93	15.63
2	11.23	5.48	14.12	9.53	19.47	9.96	4.78	5.19	4.31	12.00	13.43	16.27
3	11.71	5.36	12.88	14.40	19.47	10.18	4.85	5.13	4.53	10.88	14.88	20.44
4	11.88	5.19	12.82	15.75	19.42	10.57	4.92	5.11	4.81	11.10	14.99	19.35
5	13.27	5.21	12.94	16.54	19.26	10.84	11.43	11.43	4.92	10.15	14.46	19.69
6	14.08	5.22	12.99	17.21	19.18	10.83	14.09	14.05	4.97	10.36	14.41	16.69
7	13.35	5.24	13.15	17.46	19.14	10.99	14.97	14.26	4.98	10.52	14.35	16.94
8	12.04	5.27	13.16	17.32	19.10	11.17	14.35	14.49	5.00	9.44	12.80	16.97
9	11.65	5.27	13.22	16.91	18.98	11.44	14.18	14.43	9.00	9.44	12.83	16.97
10	12.32	5.28	7.67	16.98	18.76	11.72	13.41	14.56	11.34	9.64	12.81	16.77
11	12.32	10.41	5.38	17.04	18.51	11.94	12.15	11.65	11.75	9.61	13.42	16.74
12	10.60	5.45	5.00	17.03	18.31	12.11	11.95	11.09	10.88	8.96	13.57	16.67
13	12.18	5.39	4.79	16.86	17.54	12.26	14.59	6.45	10.07	8.98	13.64	16.80
14	12.47	5.32	4.74	16.45	6.73	12.32	15.59	5.46	11.02	9.41	13.68	16.88
15	12.62	5.39	8.56	16.46	4.41	12.38	12.89	5.30	11.26	9.46	13.69	16.96
16	12.31	5.31	9.24	16.32	4.17	12.39	13.05	5.28	11.01	9.95	14.94	15.56
17	6.81	5.31	9.55	15.40	4.16	13.91	13.08	5.23	11.67	10.23	16.00	16.40
18	5.66	5.33	9.57	14.56	4.08	10.28	12.95	8.42	11.88	10.46	16.22	16.55
19	5.52	20.40	9.75	13.90	4.00	11.07	10.80	5.18	10.74	10.73	16.30	16.55
20	5.52	20.40	9.25	14.06	15.50	11.41	17.40	5.04	10.12	11.81	16.42	17.63
21	7.34	14.14	9.25	14.23	16.47	11.44	12.92	4.98	10.11	12.37	16.43	16.40
22	5.58	14.28	10.25	14.44	16.98	11.45	12.88	5.06	10.88	12.37	16.46	16.25
23	5.60	10.98	10.47	15.96	17.30	11.57	11.80	4.05	12.19	5.53	16.45	16.25
24	5.59	11.01	10.97	16.08	11.31	11.57	13.96	2.92	12.36	5.26	16.34	7.18
25	5.56	12.58	10.48	16.47	16.45	11.52	14.48	3.35	10.72	5.20	14.16	5.75
26	5.57	13.05	13.62	16.59	17.07	10.72	14.55	3.90	10.12	5.31	12.90	5.00
27	5.52	13.00	14.73	17.84	10.15	11.25	12.38	4.32	9.91	5.37	13.71	5.06
28	5.56	13.04	15.72	18.57	9.71	11.17	12.17	4.54	9.90	5.42	13.78	5.10
29	5.50	12.55	16.13	18.74	9.62	11.17	12.19	4.71	9.86	11.13	13.80	5.14
30	5.48	11.84	6.98	18.92	---	5.55	11.86	4.77	14.81	12.50	14.65	5.18
31	5.38	---	5.38	19.19	---	4.56	---	4.77	---	12.50	14.88	---
MEAN	9.08	8.94	10.53	15.88	14.30	10.95	12.18	7.13	9.32	9.72	14.46	14.33
MAX	14.08	20.40	16.13	19.19	19.47	13.91	17.40	14.56	14.81	15.27	16.46	20.44
MIN	5.38	5.19	4.74	5.19	4.00	4.56	4.64	2.92	4.31	5.20	11.93	5.00

SARPY COUNTY

410322096191603 Local number 13N 10E 32BADD3 m90-39r

LOCATION—Lat 41º03'22", long 96º19'16", SE ¼ SE ¼ NE ¼ NW ¼ sec. 32, T.13N., R10E., Hydrologic Unit 10200202, located near Ashland.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth of the well is 85 ft., casing perforated 80 to 85 ft.

DATUM—Altitude of land-surface datum is 1,059 ft. Measuring point: Top of casing 2.50 ft. above land-surface datum.

PERIOD OF RECORD—March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 1.63 ft. below land-surface datum, Aug. 19, 2001; lowest, 48.70 ft. below land-surface datum, Oct. 8, 2001.

STATION NUMBER 410322096191603 13N 10E 32BADD 3

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.05	10.91	21.21	10.69	28.06	17.04	10.19	11.62	10.08	23.81	19.31	23.70
2	17.87	10.97	21.57	16.29	28.15	17.20	10.32	10.76	9.86	19.31	21.25	24.49
3	18.45	10.85	19.93	22.34	28.15	17.46	10.40	10.69	10.08	17.86	23.03	30.15
4	18.63	10.68	19.89	23.70	28.10	17.85	10.46	10.67	10.37	18.26	23.13	28.32
5	20.54	10.71	20.00	24.47	27.94	18.12	19.07	19.09	10.47	16.93	22.37	28.90
6	21.49	10.71	20.05	25.15	27.88	18.12	22.37	22.17	10.52	17.53	22.31	24.88
7	20.53	10.74	20.21	25.41	27.84	18.30	23.66	22.12	10.53	17.66	22.20	25.15
8	18.71	10.77	20.37	25.28	27.81	18.49	22.50	22.34	10.55	16.28	20.15	25.18
9	18.34	10.76	20.33	24.93	27.69	18.79	22.20	22.27	15.88	16.47	20.17	25.18
10	19.51	10.77	13.13	25.02	27.45	19.10	21.07	22.45	18.69	16.99	20.13	24.91
11	19.51	18.31	10.85	25.09	27.18	19.33	19.50	18.57	19.09	16.97	20.99	24.85
12	16.97	10.94	10.50	25.09	26.99	19.50	19.36	17.99	18.16	15.84	21.08	24.78
13	19.64	10.88	10.29	24.92	26.00	19.67	23.27	12.01	17.17	15.86	21.16	24.97
14	19.44	10.81	10.25	24.44	12.09	19.73	24.31	11.01	18.34	16.40	21.20	25.04
15	19.59	10.87	15.12	24.49	9.89	19.81	20.54	10.84	18.57	16.39	21.21	25.16
16	19.18	10.79	15.88	24.34	9.70	19.82	20.69	10.82	18.18	17.06	22.86	25.16
17	12.30	10.78	16.19	23.40	9.69	23.37	20.77	10.78	19.02	17.33	24.19	24.55
18	11.16	10.80	16.20	22.31	9.60	17.46	20.52	16.26	19.21	17.55	24.39	24.71
19	11.03	30.52	16.39	21.68	9.53	18.30	17.98	10.72	17.87	17.89	24.48	24.70
20	11.03	30.52	15.76	21.87	24.44	18.65	29.27	10.58	17.25	19.28	24.59	27.53
21	13.72	21.63	15.79	22.05	25.36	18.68	20.26	10.53	17.10	20.01	24.58	24.54
22	11.09	21.77	17.08	22.29	25.83	18.68	20.21	10.61	18.14	20.01	24.61	24.42
23	11.11	17.63	17.50	24.15	26.16	18.85	18.94	9.47	19.88	11.06	24.61	24.42
24	11.10	17.66	18.02	24.26	18.44	18.85	21.79	8.45	20.07	10.78	24.50	12.83
25	11.06	19.62	17.36	24.71	25.41	18.78	22.42	8.88	17.97	10.72	21.67	11.28
26	11.08	20.10	21.45	24.86	26.02	18.24	22.48	9.43	17.20	10.83	20.19	10.49
27	11.02	20.05	22.64	26.47	17.00	18.64	19.62	9.87	16.76	10.89	21.23	10.55
28	11.07	20.09	23.85	27.19	16.68	18.43	19.48	10.08	16.72	10.94	21.28	10.60
29	11.00	19.39	24.27	27.36	16.62	18.43	19.51	10.26	16.66	18.58	21.31	10.63
30	10.98	18.57	12.43	27.56	---	11.08	19.06	10.32	23.34	20.09	22.47	10.68
31	10.88	---	10.86	27.85	---	10.10	---	10.33	---	20.09	22.74	---
MEAN	15.36	15.32	17.27	23.86	22.13	18.22	19.74	13.29	16.12	16.63	22.24	22.09
MAX	21.49	30.52	24.27	27.85	28.15	23.37	29.27	22.45	23.34	23.81	24.61	30.15
MIN	10.88	10.68	10.25	10.69	9.53	10.10	10.19	8.45	9.86	10.72	19.31	10.49

SARPY COUNTY

410322096191801 Local number 13N 10E 32BDAB1 m90-37r

LOCATION—Lat 41º03'22", long 96º19'16", NW ¼ NE ¼ SE ¼ NW ¼ sec. 32, T.13N., R.10E., Hydrologic Unit 10200202, located near Ashland.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 85 ft., casing perforated 80 to 85 ft.

DATUM—Altitude of land-surface datum is 1,054.62 ft. Measuring point: Top of casing 3.20 ft. above land-surface datum.

PERIOD OF RECORD—March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 2.54 ft. below land-surface datum, Aug. 7, 1996; lowest, 27.34 ft. below land-surface datum, July 20, 2002.

STATION NUMBER 410322096191801 13N 10E32BDAB1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.04	6.32	13.96	6.04	19.39	---	---	7.00	5.42	15.89	12.65	---
2	11.84	6.38	14.35	10.04	19.50	---	---	6.13	5.18	12.77	14.11	---
3	12.29	6.26	13.19	14.58	19.49	---	---	6.07	5.44	11.64	15.55	---
4	12.49	6.08	13.14	15.98	19.44	---	---	6.04	5.73	11.83	15.67	---
5	13.78	6.11	13.27	16.71	19.28	---	---	11.82	5.82	10.91	15.14	---
6	14.56	6.12	13.32	17.35	19.21	---	---	14.39	5.87	10.96	15.09	---
7	13.88	6.13	13.50	17.60	19.16	---	---	14.73	5.88	11.18	15.01	---
8	12.65	6.17	13.39	17.49	19.10	---	---	15.05	5.89	10.10	13.49	---
9	12.28	6.16	13.46	17.12	18.98	---	---	14.95	9.60	10.08	13.51	---
10	12.88	6.17	8.45	17.19	18.66	---	---	15.09	11.85	9.99	13.47	---
11	12.88	10.92	6.24	17.24	18.35	---	---	12.34	12.25	9.93	14.05	---
12	11.25	6.34	5.88	17.24	18.08	---	---	11.76	11.39	9.44	14.21	---
13	12.67	6.29	5.65	17.05	17.30	---	---	7.49	10.55	9.45	14.27	---
14	12.98	6.21	5.59	16.62	7.36	---	15.81	6.42	11.52	9.90	14.32	---
15	13.16	6.27	9.03	16.62	5.23	---	13.36	6.23	11.80	10.00	14.32	---
16	12.86	6.19	9.65	16.44	---	---	13.53	6.21	11.59	10.51	15.52	---
17	7.76	6.18	9.96	15.37	---	---	13.57	6.15	12.24	10.81	16.56	---
18	6.59	6.20	9.98	14.59	---	---	13.45	8.98	12.45	11.07	16.77	---
19	6.46	20.46	10.17	14.01	---	---	11.35	6.10	11.22	11.35	16.83	---
20	6.46	20.46	9.70	14.21	---	---	17.72	5.95	10.61	12.43	16.95	---
21	8.01	14.53	9.70	14.36	---	---	13.34	5.90	10.75	13.02	16.95	---
22	6.53	14.67	10.59	14.60	---	---	13.30	5.98	11.51	13.02	16.99	---
23	6.54	11.52	10.60	16.06	---	---	12.24	4.75	12.79	6.48	17.00	---
24	6.53	11.54	11.09	16.14	---	---	14.12	3.78	12.99	6.19	16.87	---
25	6.48	13.04	10.68	16.57	---	---	14.60	4.20	11.41	6.13	---	---
26	6.50	13.54	13.60	16.62	---	---	14.64	4.73	10.84	6.24	---	---
27	6.44	13.49	14.74	17.89	---	---	12.69	5.21	10.66	6.30	---	---
28	6.48	13.47	15.76	18.55	---	---	12.54	5.45	10.66	6.35	---	---
29	6.41	13.02	16.16	18.70	---	---	12.57	5.63	10.61	11.77	---	---
30	6.39	12.31	7.76	18.88	---	---	12.34	5.69	15.40	13.18	---	---
31	6.28	---	6.21	19.18	---	---	---	5.70	---	13.18	---	---
MEAN	9.82	9.62	10.93	16.03	---	---	---	7.93	10.00	10.39	---	---
MAX	14.56	20.46	16.16	19.18	---	---	---	15.09	15.40	15.89	---	---
MIN	6.28	6.08	5.59	6.04	---	---	---	3.78	5.18	6.13	---	---

SARPY COUNTY

410323096191401 Local number 13N 10E 32BADD2 m90-41r

LOCATION—Lat 41º03'23", long 96º19'14", SE ¼ SE ¼ NE ¼ NW ¼ sec. 32, T.13N., R.10E., Hydrologic Unit 10200202, located near Ashland.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 79 ft., casing perforated 74 to 79 ft.

DATUM—Altitude of land-surface datum is 1,059.59 ft. Measuring point: Top of casing 2.80 ft. above land-surface datum.

PERIOD OF RECORD—March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 2.65 ft. below land-surface datum, June 2,3, 1995; lowest, 22.93 ft. below land-surface datum, July 3, 2002.

STATION NUMBER 410323096191401 13N 10E 32BADD 2

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.64	6.35	13.61	6.11	18.43	---	---	6.74	5.34	14.61	12.00	15.29
2	11.47	6.42	13.97	9.94	18.47	---	---	6.04	5.14	11.89	13.28	15.84
3	11.87	6.29	12.91	14.13	18.45	---	---	6.00	5.36	10.96	14.48	19.20
4	12.03	6.12	12.85	15.38	18.38	---	---	5.97	5.64	11.12	14.57	18.42
5	13.17	6.16	12.98	16.18	18.20	---	---	11.39	5.74	10.32	14.15	18.68
6	13.86	6.18	13.04	16.81	18.11	---	---	13.54	5.79	10.42	14.30	16.25
7	13.24	6.20	13.19	17.02	18.07	---	---	13.72	5.79	10.60	14.41	16.54
8	12.18	6.24	13.17	16.86	18.04	---	---	13.90	5.80	9.70	13.04	16.75
9	11.82	6.24	13.23	16.38	17.89	---	---	13.84	9.15	9.69	13.05	16.57
10	11.80	6.24	8.51	16.42	17.69	---	---	13.94	11.18	9.67	13.05	16.49
11	12.38	10.81	6.23	16.47	17.44	---	---	11.45	11.64	9.64	13.50	16.43
12	10.94	6.42	5.95	16.46	17.26	---	---	11.03	10.86	9.26	13.63	16.31
13	12.23	6.37	5.76	16.24	16.56	---	---	7.05	10.05	9.28	13.67	16.39
14	12.48	6.32	5.72	15.68	7.00	---	15.11	6.26	10.88	9.67	13.70	16.47
15	12.63	6.36	8.97	15.75	5.19	---	12.80	6.14	11.10	9.72	13.73	16.55
16	12.35	6.28	9.58	15.63	---	---	12.91	6.12	10.90	10.13	14.76	16.50
17	7.65	6.30	9.89	14.76	---	---	12.96	6.06	11.46	10.36	15.65	16.04
18	6.56	6.30	9.91	14.11	---	---	12.84	8.89	11.68	10.56	15.84	16.14
19	6.46	18.85	10.11	13.40	---	---	11.01	6.02	10.66	10.80	15.89	16.16
20	6.46	19.09	9.67	13.55	---	---	16.55	5.87	10.11	11.81	15.99	16.96
21	8.12	13.87	9.64	13.73	---	---	12.78	5.82	10.18	12.21	16.16	15.99
22	6.50	14.02	10.50	13.96	---	---	12.76	5.89	10.82	12.21	16.02	15.86
23	6.52	11.21	10.49	15.36	---	---	13.26	4.63	11.92	6.47	16.02	15.84
24	6.50	11.24	11.03	15.46	---	---	17.17	4.62	12.08	6.28	15.93	8.30
25	6.48	12.59	10.65	15.69	---	---	17.53	4.62	10.73	6.23	14.10	7.01
26	6.50	13.04	13.26	15.90	---	---	17.87	4.76	10.25	6.34	12.99	6.34
27	6.46	12.98	14.38	17.12	---	---	15.98	5.18	10.10	6.38	13.67	6.52
28	6.50	13.04	15.21	17.68	---	---	11.96	5.37	10.10	6.44	13.74	6.52
29	6.43	12.66	15.64	17.84	---	---	11.98	5.54	10.07	11.32	13.76	6.51
30	6.41	11.99	7.74	18.03	---	---	11.71	5.60	14.11	12.46	14.43	6.53
31	6.31	---	6.27	18.27	---	---	---	5.61	---	12.44	14.63	---
MEAN	9.55	9.41	10.78	15.37	---	---	---	7.66	9.49	9.97	14.33	14.31
MAX	13.86	19.09	15.64	18.27	---	---	---	13.94	14.11	14.61	16.16	19.20
MIN	6.31	6.12	5.72	6.11	---	---	---	4.62	5.14	6.23	12.00	6.34

SARPY COUNTY

410323096191501 Local number 13N 10E 32BADD1 m90-40r

LOCATION—Lat 41º03'23", long 96º19'15", SE ¼ SE ¼ NE ¼ NW ¼ sec. 32, T 13N., R.10E., Hydrologic Unit 10200202, located near Ashland.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth of well is not determined, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,059.73 ft. Measuring point: Top of casing 2.70 ft. above land-surface datum.

PERIOD OF RECORD—March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 2.85 ft. below land-surface datum, June 3, 1995; lowest, 28.20 ft. below land-surface datum, Mar. 12, 2003.

STATION NUMBER 410323096191501 13N 10E 32BADD 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.12	6.48	15.97	6.29	22.32	---	---	7.12	5.64	18.01	14.10	18.18
2	12.94	6.55	16.32	11.47	22.40	---	---	6.29	5.42	14.11	15.83	18.89
3	13.45	6.43	14.86	17.00	22.39	---	---	6.23	5.64	12.81	17.43	23.78
4	13.64	6.25	14.81	18.32	22.34	---	---	6.21	5.93	13.11	17.52	22.34
5	15.31	6.29	14.92	19.10	22.17	---	---	13.82	6.03	12.00	16.87	22.77
6	16.18	6.30	14.97	19.76	22.10	---	---	16.65	6.08	12.39	16.81	19.26
7	15.34	6.30	15.13	20.01	22.06	---	---	16.68	6.09	12.54	16.73	19.52
8	13.82	6.35	15.23	19.85	22.03	---	---	16.89	6.10	11.29	14.95	19.56
9	13.39	6.35	15.23	19.48	21.91	---	---	16.82	10.85	11.40	14.99	19.56
10	13.38	6.34	8.69	19.55	21.68	---	---	16.97	13.48	11.78	14.96	19.32
11	14.34	12.96	6.43	19.62	21.40	---	---	13.51	13.93	11.76	15.72	19.27
12	12.22	6.54	6.08	19.61	21.21	---	---	12.96	13.00	10.85	15.83	19.20
13	14.37	6.47	5.88	19.42	20.30	---	---	7.52	12.06	10.87	15.90	19.36
14	14.35	6.41	5.83	18.91	7.54	---	18.62	6.56	13.14	11.37	15.94	19.44
15	14.51	6.46	10.30	18.98	5.41	---	15.28	6.40	13.41	11.38	15.96	19.53
16	14.14	6.38	11.01	18.82	---	---	15.42	6.38	13.06	11.97	17.43	19.53
17	7.95	6.39	11.33	17.92	---	---	15.47	6.33	13.79	12.24	18.62	18.95
18	6.75	6.40	11.35	16.94	---	---	15.29	10.97	14.02	12.46	18.83	19.11
19	6.61	23.65	11.55	16.30	---	---	12.93	6.28	12.84	12.76	18.91	19.10
20	6.61	23.91	10.97	16.48	---	---	22.10	6.14	12.15	14.01	19.03	21.15
21	9.01	16.30	10.99	16.67	---	---	15.08	6.09	12.03	14.67	19.03	18.94
22	6.67	16.47	12.15	16.90	---	---	15.03	6.16	12.95	14.67	19.06	18.81
23	6.69	12.72	12.45	18.63	---	---	13.84	5.00	14.48	6.61	19.05	18.81
24	6.68	12.76	12.98	18.74	---	---	16.39	4.01	14.68	6.35	18.95	8.36
25	6.64	14.55	12.41	19.12	---	---	16.96	4.45	12.80	6.29	16.44	6.85
26	6.65	15.01	16.08	19.29	---	---	17.02	5.00	12.11	6.40	15.06	6.08
27	6.60	14.95	17.27	20.79	---	---	14.44	5.44	11.76	6.46	16.00	6.14
28	6.64	15.01	18.38	21.47	---	---	14.28	5.65	11.73	6.51	16.06	6.18
29	6.57	14.40	18.79	21.65	---	---	14.30	5.82	11.67	13.39	16.07	6.22
30	6.55	13.64	7.99	21.84	---	---	13.91	5.88	17.46	14.80	17.08	6.27
31	6.44	---	6.46	22.12	---	---	---	5.89	---	14.80	17.32	---
MEAN	10.57	10.50	12.35	18.42	---	---	---	8.58	11.14	11.61	16.85	16.68
MAX	16.18	23.91	18.79	22.12	---	---	---	16.97	17.46	18.01	19.06	23.78
MIN	6.44	6.25	5.83	6.29	---	---	---	4.01	5.42	6.29	14.10	6.08

SARPY COUNTY

410324096191801 Local number 13N 10E 32BADC1 m90-38r

LOCATION—Lat 41º03'24", long 96º19'18", SW ¼ SE ¼ NE ¼ NW ¼ sec. 32, T.13N., R.10E., Hydrologic Unit 10200202, located near Ashland.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth of the well is not determined, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,060.21 ft. Measuring point: Top of casing 3.00 ft. above land-surface datum.

PERIOD OF RECORD—March 1995 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 2.70 ft. below land-surface datum, June 3, 1995; lowest, 24.26 ft. below land-surface datum, July 1, 2, 3, 2002.

STATION NUMBER 410324096191801 13N 10E 32BADC 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.23	6.63	14.16	6.38	19.31	10.05	5.86	7.30	5.76	15.98	12.86	16.29
2	12.03	6.69	14.51	10.38	19.38	10.21	5.99	6.45	5.54	12.95	14.26	16.90
3	12.48	6.57	13.39	14.78	19.37	10.49	6.06	6.39	5.77	11.86	15.64	20.61
4	12.66	6.41	13.34	16.09	19.31	10.89	6.13	6.36	6.06	12.07	15.74	19.67
5	13.88	6.43	13.46	16.80	19.14	11.14	12.02	12.11	6.16	11.13	15.24	20.02
6	14.64	6.44	13.51	17.43	19.06	11.13	14.49	14.59	6.20	11.25	15.18	17.25
7	13.98	6.46	13.67	17.67	19.01	11.30	15.31	14.90	6.21	11.44	15.12	17.52
8	12.79	6.49	13.60	17.54	18.96	11.50	14.85	15.16	6.23	10.41	13.67	17.55
9	12.44	6.48	13.66	17.18	18.83	11.84	14.79	15.10	9.95	10.39	13.71	20.34
10	13.02	6.48	8.74	17.24	18.56	12.22	14.14	15.22	12.15	10.32	13.68	17.36
11	13.02	11.20	6.53	17.28	18.26	12.46	12.95	12.55	12.53	10.23	14.24	17.34
12	11.44	6.64	6.21	17.28	18.02	12.64	12.73	11.98	11.67	9.84	14.39	17.27
13	12.82	6.60	6.01	17.05	17.21	12.84	15.11	7.76	10.85	9.87	14.44	17.40
14	13.10	6.52	5.97	16.39	7.44	12.91	16.07	6.74	11.81	10.32	14.49	17.49
15	13.27	6.58	9.31	16.49	5.51	12.98	13.63	6.56	12.05	10.42	14.49	17.57
16	12.99	6.50	9.93	16.29	5.37	13.00	13.80	6.54	11.84	10.88	15.64	16.18
17	8.01	6.49	10.26	15.33	5.35	14.51	13.84	6.49	12.47	11.16	16.63	17.00
18	6.89	6.50	10.28	14.56	5.27	10.96	13.72	9.46	12.68	11.39	16.83	17.14
19	6.77	20.17	10.50	13.94	5.19	11.72	11.67	6.44	11.53	11.67	16.90	17.14
20	6.77	20.17	10.03	14.15	15.27	12.10	17.76	6.29	10.91	12.71	17.01	18.13
21	8.41	14.62	9.99	14.33	16.07	12.13	13.57	6.24	11.01	13.25	17.01	16.95
22	6.83	14.75	10.84	14.59	16.41	12.14	13.53	6.32	11.75	13.25	17.06	16.75
23	6.86	11.72	10.67	16.06	16.70	12.27	12.49	4.95	12.99	6.83	17.06	16.77
24	6.84	11.74	11.21	16.13	11.44	12.27	14.35	4.12	13.18	6.54	16.93	8.43
25	6.79	13.18	10.88	16.43	16.08	12.22	14.82	4.55	11.65	6.48	14.93	7.02
26	6.81	13.66	13.61	16.57	16.64	11.43	14.87	5.10	11.10	6.59	13.73	6.25
27	6.76	13.60	14.91	17.90	10.36	11.82	12.95	5.55	10.92	6.65	14.50	6.32
28	6.79	13.61	15.86	18.52	10.18	11.86	12.79	5.77	10.92	6.70	14.56	6.36
29	6.73	13.18	16.24	18.67	10.11	11.86	12.81	5.94	10.88	12.07	14.58	6.40
30	6.71	12.49	8.05	18.84	---	6.69	12.59	6.01	15.50	13.39	15.36	6.45
31	6.60	---	6.55	19.12	---	5.77	---	6.02	---	13.39	15.58	---
MEAN	10.04	9.83	11.16	16.05	14.41	11.53	12.86	8.22	10.28	10.69	15.21	15.13
MAX	14.64	20.17	16.24	19.12	19.38	14.51	17.76	15.22	15.50	15.98	17.06	20.61
MIN	6.60	6.41	5.97	6.38	5.19	5.77	5.86	4.12	5.54	6.48	12.86	6.25

SAUNDERS COUNTY

410303096192901 Local number 13N 10E 32CABC m90-36r

LOCATION—Lat 41º03'03", long 096º19'29", SW 1/4 NW 1/4 NE 1/4 SW 1/4 sec. 32, T. 13 N., R. 10 E., Hydrologic Unit 10200202, 2.0 mi north and 0.6 mi south of Ashland. One-sixth mile south of highway 6 gate for Willow Point Community Housing. Northern end of Willow Point Lake, approximately 400 feet from right bank of Platte River.

AQUIFER—Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 86 ft, screened 51 to 86 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,056 ft. Measuring point: Top of casing 3.60 ft above land-surface datum.

REMARKS—Water levels affected by nearby pumping of municipal wells and Platte River stage. Starting in April 1991, recorder instrument set to read depth below measuring point. GOES unit installed in September 1992.

PERIOD OF RECORD—December 1990 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level measured, 0.18 ft below land-surface datum, July 25, 1993; lowest, 11.81 ft below land-surface datum, Oct 23, 1991.

STATION NUMBER 410303096192901 13N 10E32CABC1 M36R

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.01	8.96	8.36	8.53	7.95	6.94	7.11	7.32	7.34	8.56	8.26	8.19
2	8.88	8.77	8.22	8.56	7.96	6.53	7.04	7.37	7.55	8.61	8.52	8.22
3	9.12	8.60	8.14	8.56	7.90	6.34	7.05	7.43	7.68	8.54	8.68	8.26
4	9.19	8.36	8.12	7.97	7.88	6.43	7.07	7.44	7.82	8.54	8.67	8.30
5	9.22	8.29	8.14	8.23	7.79	6.40	7.10	7.49	7.65	7.99	8.65	8.67
6	9.13	8.49	8.15	8.31	7.72	6.39	7.31	7.53	7.74	7.48	8.56	8.72
7	9.14	8.69	8.24	8.37	7.68	6.39	7.35	8.12	7.77	7.30	8.13	8.40
8	9.12	9.08	8.24	8.06	7.62	6.45	7.46	8.35	8.13	7.09	8.24	8.39
9	9.14	9.08	8.13	7.94	7.51	6.52	7.54	8.43	8.27	6.97	8.23	8.46
10	9.14	9.20	8.27	8.01	7.45	6.56	7.58	8.46	8.37	6.82	8.21	8.98
11	9.11	9.27	8.23	8.02	7.39	6.64	7.52	8.50	7.99	6.44	8.66	9.06
12	9.13	8.57	8.18	7.99	7.33	6.73	7.55	8.53	7.82	6.77	8.88	9.09
13	9.03	8.46	8.60	7.76	7.28	6.81	7.85	8.07	7.62	6.90	8.88	9.01
14	8.92	8.42	8.74	7.70	7.25	6.85	8.07	8.14	7.37	7.12	8.92	8.52
15	9.02	8.44	8.77	7.79	7.22	6.86	7.58	8.24	7.36	7.15	8.90	8.49
16	9.38	8.39	8.77	7.61	7.19	6.89	7.44	8.25	7.39	7.48	8.91	8.41
17	9.51	8.39	8.80	7.41	7.87	6.89	7.41	8.27	7.47	7.20	8.90	8.35
18	9.48	8.38	8.79	7.39	7.98	6.97	7.88	8.27	7.56	7.31	8.88	8.33
19	9.39	8.48	8.80	7.51	8.01	7.21	8.02	8.27	7.22	7.43	8.88	8.31
20	9.33	8.59	8.74	8.10	8.04	7.44	7.45	8.21	7.45	7.89	8.95	8.18
21	9.22	8.52	8.64	8.36	8.03	7.54	7.43	8.21	7.48	8.09	8.93	8.18
22	9.34	8.36	7.93	8.47	8.01	7.64	7.45	8.25	7.42	8.16	8.97	7.89
23	9.30	8.37	7.69	8.58	7.98	7.67	7.43	7.95	7.26	7.80	8.42	8.02
24	8.92	8.39	7.54	8.58	7.95	7.49	7.37	6.94	7.28	7.81	8.25	8.22
25	8.94	8.54	7.50	8.60	7.91	7.47	7.23	6.53	7.35	7.78	8.48	8.30
26	8.99	8.58	7.50	8.70	7.87	7.64	7.20	6.82	7.44	7.85	8.21	7.91
27	8.99	8.46	7.50	8.86	7.97	7.65	7.21	7.37	7.52	8.23	8.24	8.09
28	8.70	8.40	7.96	8.87	7.97	7.57	7.21	7.57	7.62	8.43	8.19	7.80
29	9.00	8.41	8.33	8.07	7.81	7.54	7.24	7.42	7.96	8.46	8.19	7.96
30	9.50	8.38	8.42	7.85	---	7.50	7.26	7.45	8.27	7.88	8.21	8.05
31	9.65	---	8.48	7.93	---	7.30	---	7.45	---	7.88	8.12	---
MEAN	9.16	8.58	8.26	8.15	7.74	7.01	7.41	7.83	7.64	7.68	8.55	8.36
MAX	9.65	9.27	8.80	8.87	8.04	7.67	8.07	8.53	8.37	8.61	8.97	9.09
MIN	8.70	8.29	7.50	7.39	7.19	6.34	7.04	6.53	7.22	6.44	8.12	7.80

SAUNDERS COUNTY

410307096193801 Local number 13N 10E 32CBAB m90-26r

LOCATION—Lat 41º03'07", long 096º19'38", NW 1/4 NE 1/4 NW 1/4 SW 1/4 sec. 32, T. 13 N., R. 10 E., Hydrologic Unit 10200202, 2.0 mi northeast of Ashland on highway 6 and 0.5 mi south of highway 6.

AQUIFER—Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 46 ft, screened 11 to 46 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,060 ft. Measuring point: Top of casing 3.8 ft above land-surface datum.

REMARKS—Water levels affected by nearby pumping of municipal wells and Platte River stage. Starting in April 1991, recorder instrument set to read depth below measuring point.

PERIOD OF RECORD—November 1990 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level measured, +2.19 ft above land-surface datum, July 24, 25, 1993; lowest, 13.97 ft below land-surface datum, Sep 7, 1991.

STATION NUMBER 410307096193801 13N 10E 32CBAB 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.85	11.60	9.84	7.82	7.95	6.25	7.18	6.99	7.62	8.98	8.06	8.12
2	11.89	11.09	9.76	7.89	7.97	5.00	6.57	7.17	7.29	9.02	8.33	8.16
3	11.96	10.56	9.65	7.91	7.97	4.33	6.23	7.25	7.41	9.05	8.59	8.19
4	12.05	10.21	9.49	7.59	7.96	4.44	6.05	7.24	7.81	9.05	8.70	8.19
5	12.11	9.97	9.34	7.58	7.93	4.57	6.17	7.29	8.54	8.95	8.88	8.28
6	12.11	10.60	9.29	7.68	7.89	4.57	6.73	7.48	9.11	8.60	8.91	8.53
7	12.05	11.18	9.35	7.73	7.87	4.58	7.18	7.87	9.27	8.09	8.76	8.60
8	11.93	11.38	9.44	7.71	7.83	4.67	7.42	8.29	9.15	7.69	8.72	8.63
9	11.89	11.14	9.36	7.63	7.77	4.80	7.58	8.57	8.96	7.19	8.64	8.65
10	11.92	10.70	9.20	7.64	7.71	4.95	7.72	8.76	8.71	6.85	8.46	8.88
11	11.93	10.63	9.08	7.70	7.62	5.12	7.80	8.79	8.87	5.46	8.46	8.94
12	11.98	10.44	8.99	7.71	7.59	5.31	7.92	8.99	8.54	6.24	8.46	9.03
13	11.98	10.20	9.06	7.63	7.50	5.52	8.29	9.40	8.26	6.85	8.45	9.05
14	11.88	10.08	9.20	7.52	7.39	5.69	8.51	9.74	7.96	7.28	8.34	8.87
15	11.91	10.12	9.26	7.55	7.30	5.84	8.12	10.02	7.79	7.30	8.25	8.80
16	11.92	10.15	9.27	7.54	7.20	6.01	7.60	10.25	7.78	7.44	8.14	8.76
17	11.58	10.14	9.23	7.45	7.41	6.21	7.31	10.42	7.82	7.46	8.11	8.73
18	10.82	10.17	9.20	7.33	7.54	6.53	7.21	10.54	7.90	7.55	8.18	---
19	10.20	10.43	9.12	7.37	7.61	7.26	7.36	10.62	8.01	7.80	8.30	---
20	9.74	10.81	9.07	7.61	7.69	8.07	7.20	10.66	8.17	8.11	8.37	---
21	9.52	10.77	9.00	7.86	7.72	8.67	7.20	10.69	8.25	8.13	8.38	---
22	9.71	10.38	8.68	7.99	7.71	9.12	7.24	10.72	7.86	8.29	8.40	---
23	10.16	10.16	8.39	8.13	7.69	9.24	7.24	10.69	7.43	8.36	8.29	---
24	10.80	10.06	8.10	8.19	7.65	8.68	7.18	9.11	7.31	8.45	8.28	---
25	11.18	10.03	7.86	8.20	7.59	8.09	7.12	5.38	7.23	8.45	8.26	---
26	11.34	10.05	7.69	8.31	7.47	8.44	7.13	6.15	7.41	8.39	8.28	---
27	11.39	10.04	7.54	8.42	7.35	8.63	7.06	7.00	7.63	7.88	8.30	---
28	10.77	9.94	7.45	8.46	7.31	8.70	6.97	7.65	7.90	7.96	8.27	---
29	10.49	9.90	7.65	8.21	7.17	8.70	6.93	8.06	8.06	8.27	8.17	---
30	11.39	9.86	7.75	8.02	---	8.65	6.90	8.24	8.39	8.01	8.20	---
31	11.72	---	7.81	7.91	---	8.13	---	8.24	---	7.86	8.18	---
MEAN	11.36	10.43	8.84	7.82	7.63	6.61	7.24	8.65	8.08	7.90	8.39	---
MAX	12.11	11.60	9.84	8.46	7.97	9.24	8.51	10.72	9.27	9.05	8.91	---
MIN	9.52	9.86	7.45	7.33	7.17	4.33	6.05	5.38	7.23	5.46	8.06	---

SAUNDERS COUNTY

410314096201101 Local number 13N 10E 31ACDB m90-24r

LOCATION—Lat 41º03'14", long 096º20'11", NW 1/4 SE 1/4 SW 1/4 NE 1/4 sec. 31, T. 13 N., R. 10 E., Hydrologic Unit 10200203, 1.4 mi northeast of Ashland north of U.S. Highway 6.

AQUIFER—Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 49 ft., screened 14 to 49 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,060 ft. Measuring point: Top of casing 5.9 ft (April 1994) above land-surface datum.

REMARKS—Starting in April 1991, recorder instrument set to read depth below measuring point.

PERIOD OF RECORD—November 1990 to current year.

REVISED RECORDS—WDR NE-96: Water levels for 1995 water year.

EXTREMES FOR PERIOD OF RECORD—Highest water level measured, +0.86 ft above land-surface datum, Mar. 12, 1993; lowest, 20.37 ft below land-surface datum, Oct 10, 1991.

STATION NUMBER 410314096201101 13N 10E31ACDB1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.46	18.40	18.51	15.11	13.53	11.90	11.13	11.79	12.77	14.14	14.48	---
2	18.48	18.43	18.74	14.88	13.53	11.95	11.12	11.84	12.89	14.16	14.52	---
3	18.52	18.44	18.74	14.88	13.56	11.76	11.10	11.84	12.99	14.14	14.57	---
4	18.60	18.45	18.36	14.77	13.54	11.67	---	11.90	13.07	14.19	14.67	---
5	18.69	18.45	18.30	14.62	13.49	11.58	---	11.94	13.16	14.23	14.76	---
6	18.72	18.47	18.24	14.67	13.50	11.40	---	12.06	13.24	14.26	14.86	---
7	18.73	18.49	18.19	14.54	13.48	11.40	---	12.09	13.35	14.27	14.97	---
8	18.66	18.49	18.11	14.52	13.46	11.31	---	12.17	13.44	14.30	15.11	---
9	18.69	18.50	18.05	14.31	13.41	11.35	---	12.25	13.50	14.33	15.23	---
10	18.72	18.49	18.00	14.23	13.39	11.39	---	12.35	13.56	14.33	15.33	---
11	18.76	18.50	17.93	14.12	13.33	11.52	---	12.39	13.67	14.29	15.41	---
12	18.81	18.51	17.86	14.13	13.29	11.53	---	12.50	13.73	14.22	15.51	---
13	18.92	18.52	17.78	14.11	13.27	11.67	---	12.58	13.70	14.17	15.58	---
14	18.92	18.51	17.70	13.96	13.13	11.76	---	12.65	13.72	14.11	15.64	---
15	18.95	18.55	17.62	14.12	13.03	11.76	11.04	12.70	13.76	14.04	15.67	---
16	18.96	18.56	17.87	14.00	12.93	11.83	11.05	12.75	13.82	13.98	15.68	---
17	18.98	18.58	17.53	13.83	12.80	11.89	11.07	12.83	13.88	14.00	15.70	---
18	19.08	18.60	17.42	13.86	12.73	11.93	11.05	12.87	13.95	14.01	15.71	---
19	18.94	18.63	17.16	13.78	12.62	11.92	11.17	12.88	13.96	14.08	15.73	---
20	18.85	18.65	17.06	13.75	12.62	12.03	11.11	12.94	13.96	14.16	---	---
21	18.81	18.68	17.11	13.71	12.58	11.99	11.28	12.94	13.98	14.27	---	---
22	18.75	18.71	16.97	13.70	12.56	11.92	11.43	12.95	13.98	14.36	---	---
23	18.69	18.73	16.47	13.65	12.46	11.87	11.46	12.97	14.00	14.44	---	---
24	18.61	18.72	16.33	13.65	12.49	11.86	11.45	12.87	14.06	14.49	---	---
25	18.56	18.67	16.13	13.61	12.37	11.84	11.47	12.72	14.07	14.51	---	---
26	18.50	18.64	16.20	13.61	12.34	11.79	11.53	12.67	14.09	14.51	---	---
27	18.45	18.62	15.89	13.64	12.16	11.68	11.54	12.67	14.09	14.49	---	---
28	18.42	18.58	15.76	13.61	12.09	11.55	11.58	12.67	14.09	14.47	---	---
29	18.38	18.53	15.43	13.55	11.95	11.46	11.70	12.61	14.06	14.44	---	---
30	18.38	18.50	15.48	13.58	---	11.34	11.75	12.63	14.09	14.42	---	---
31	18.39	---	15.19	13.49	---	11.23	---	12.68	---	14.46	---	---
MEAN	18.69	18.55	17.29	14.06	12.95	11.68	---	12.51	13.69	14.27	---	---
MAX	19.08	18.73	18.74	15.11	13.56	12.03	---	12.97	14.09	14.51	---	---
MIN	18.38	18.40	15.19	13.49	11.95	11.23	---	11.79	12.77	13.98	---	---

SAUNDERS COUNTY

410334096211601 Local number 13N 9E 36ABAA m90-22r

LOCATION—Lat 41º03'34", long 096º21'16", NE 1/4 NE 1/4 NW 1/4 NE 1/4 sec. 36, T. 13 N., R. 9 E., Hydrologic Unit 10200202, 1 mi north and 0.65 mi east of Ashland.

AQUIFER—Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 56 ft., screened 45 to 56 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,065 ft. Measuring point: Top of casing 4.0 ft above land-surface datum.

REMARKS—Water levels affected by passage of trains on nearby railroad track. Starting in April 1991, recorder instrument set to read depth below measuring point.

PERIOD OF RECORD—August 1990 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level measured, +2.55 ft above land-surface datum, Jul 23, 1993; lowest, 21.40 ft below land-surface datum, Oct. 30, 1991.

STATION NUMBER 410334096211601 13N 9E36ABAA1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.07	16.42	13.81	11.87	10.45	8.81	7.24	7.33	7.55	7.89	13.26	13.13
2	16.05	16.35	13.62	11.83	10.44	8.85	7.28	7.32	7.63	7.90	14.22	13.10
3	16.01	16.33	13.48	11.85	10.45	8.81	7.28	7.36	7.63	7.98	14.17	13.11
4	16.05	16.26	13.46	11.85	10.39	8.65	7.23	7.30	7.61	8.01	15.09	13.15
5	16.06	16.35	13.51	11.86	10.30	8.31	7.16	7.31	7.59	8.07	16.16	13.21
6	16.08	16.35	13.41	11.83	10.26	8.07	7.15	7.46	7.57	8.13	16.27	13.37
7	16.10	16.39	13.20	11.67	10.27	8.14	7.18	7.49	7.64	8.13	16.50	13.44
8	16.11	16.38	13.08	11.60	10.20	8.05	7.42	7.54	7.73	8.07	14.44	13.52
9	16.14	16.32	13.05	11.64	10.14	8.06	7.30	7.64	7.78	8.14	13.22	13.61
10	16.14	16.17	12.95	11.52	10.13	7.99	7.33	7.64	7.77	8.17	12.71	13.74
11	16.23	16.15	12.89	11.40	10.10	8.03	7.30	7.60	7.87	8.17	12.42	13.85
12	16.24	16.28	12.83	11.41	10.10	7.98	7.30	7.64	7.90	8.26	12.53	13.91
13	16.18	16.29	12.73	11.39	9.97	7.95	7.31	7.71	7.45	8.26	15.57	13.98
14	16.21	16.10	12.62	11.28	9.95	7.98	7.26	7.73	7.00	8.33	17.12	14.06
15	16.22	16.01	12.56	11.27	9.93	7.91	7.21	7.74	6.98	8.32	17.64	14.27
16	16.27	15.99	12.63	11.15	9.85	7.88	7.26	7.70	7.10	8.36	17.67	14.34
17	16.25	15.81	12.55	11.15	9.86	7.78	7.28	7.73	7.18	8.42	16.29	14.42
18	16.12	15.64	12.52	11.18	9.74	7.86	7.26	7.75	7.29	11.04	13.93	14.50
19	16.10	15.57	12.50	11.14	9.56	7.82	7.45	7.73	7.32	12.40	13.51	14.56
20	16.13	15.30	12.40	11.06	9.56	7.96	7.29	7.77	7.30	12.84	13.22	14.53
21	16.07	15.24	12.30	11.02	9.54	7.95	7.34	7.76	7.35	12.80	13.07	14.56
22	16.12	14.99	12.32	11.04	9.39	7.82	7.42	7.73	7.41	12.99	15.68	14.36
23	16.09	14.78	12.28	10.88	9.19	7.67	7.48	7.78	7.47	12.93	16.63	14.33
24	16.21	14.69	12.34	10.89	9.18	7.65	7.48	7.79	7.59	13.01	17.04	14.33
25	16.26	14.39	12.19	10.76	9.17	7.65	7.40	7.82	7.61	10.89	17.07	14.28
26	16.25	14.26	12.12	10.78	9.06	7.66	7.37	7.77	7.75	10.40	14.09	14.19
27	16.12	14.18	12.01	10.79	8.98	7.61	7.28	7.73	7.74	12.51	13.65	14.08
28	16.20	14.08	12.02	10.76	8.92	7.50	7.13	7.74	7.93	13.16	13.49	14.08
29	16.17	13.84	11.99	10.65	8.79	7.46	7.26	7.67	7.92	11.78	13.34	14.03
30	16.38	13.81	11.95	10.62	---	7.38	7.28	7.60	7.85	10.80	13.26	13.98
31	16.43	---	12.03	10.50	---	7.32	---	7.58	---	12.04	13.18	---
MEAN	16.16	15.56	12.69	11.25	9.79	7.95	7.30	7.63	7.55	9.94	14.72	13.93
MAX	16.43	16.42	13.81	11.87	10.45	8.85	7.48	7.82	7.93	13.16	17.67	14.56
MIN	16.01	13.81	11.95	10.50	8.79	7.32	7.13	7.30	6.98	7.89	12.42	13.10

SAUNDERS COUNTY

410340096202201 Local number 13N 10E 30CDDA m90-23r

LOCATION—Lat 41º03'40", long 096º20'22", NE 1/4 SE 1/4 SE 1/4 SW 1/4 sec. 30, T. 13 N., R. 10 E., Hydrologic Unit 10200202, 1.1 mi north and 1.5 mi east of Ashland by Nebraska National Guard Camp.

AQUIFER—Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 70 ft., screened 55 to 70 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,059 ft. Measuring point: Top of casing 6.6 ft above land-surface datum (changed from 4.10 ft on 04-25-94).

REMARKS—Water levels in area affected by nearby pumping of municipal wells. Starting in April 1991, recorder instrument set to read depth below measuring point. GOES system installed in August 1994.

PERIOD OF RECORD—August 1990 to current year.

REVISED RECORDS—WDR NE-96: Water levels for 1995 water year,

EXTREMES FOR PERIOD OF RECORD—Highest water level measured, +4.13 ft above land-surface datum, July 24, 1993; lowest, 26.00 ft below land-surface datum, Oct. 11, 1991.

STATION NUMBER 410340096202201 13N 10E 30CDDA1 M23R

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.98	18.79	16.28	10.45	8.30	5.10	5.67	6.09	8.23	10.36	14.32	18.28
2	18.72	18.39	16.40	10.35	8.23	5.10	5.60	6.05	8.69	10.38	14.73	18.23
3	18.61	18.02	16.47	10.30	8.15	5.01	5.47	6.24	9.18	10.36	15.17	18.20
4	18.61	17.66	16.47	10.26	8.04	4.92	5.49	6.48	9.63	10.20	15.51	18.27
5	18.58	17.33	16.42	10.27	7.93	4.75	5.54	6.61	9.94	10.15	15.74	18.44
6	18.66	17.05	16.34	10.23	7.83	4.62	5.59	6.90	9.99	10.08	15.86	18.50
7	18.77	16.70	16.17	10.20	7.76	4.57	5.64	7.22	9.84	9.77	16.21	18.36
8	18.88	16.44	15.92	10.25	7.69	4.51	5.71	7.42	10.14	9.58	16.50	18.32
9	18.99	16.24	15.39	10.26	7.61	4.49	5.75	7.58	10.36	9.60	16.70	18.30
10	19.08	16.08	14.48	10.24	7.55	4.49	5.75	7.73	10.59	9.56	16.84	18.32
11	19.09	16.21	13.66	10.22	7.50	4.53	5.71	7.77	10.75	9.75	16.72	18.43
12	19.05	16.31	13.03	10.22	7.48	4.55	5.64	7.54	10.98	9.75	16.52	18.53
13	18.74	16.32	12.72	10.19	7.39	4.66	5.51	7.27	10.98	9.67	15.86	18.62
14	18.52	16.28	12.56	10.09	7.29	4.69	5.15	7.15	10.54	9.60	16.07	18.59
15	18.34	16.27	12.40	10.08	7.24	4.86	4.90	7.16	10.33	9.41	16.52	18.51
16	18.58	16.31	12.29	9.99	7.16	4.98	4.77	7.16	10.17	9.52	16.92	18.62
17	18.96	16.65	12.18	9.94	7.09	5.10	4.76	7.13	10.00	9.86	17.22	18.94
18	19.35	16.99	12.05	9.88	6.86	5.24	4.96	7.11	10.14	10.07	17.57	19.12
19	19.66	17.20	11.94	9.80	6.58	5.27	5.42	7.14	10.22	10.21	17.87	19.06
20	19.94	17.38	11.81	9.72	6.37	5.24	5.66	7.18	10.23	10.62	18.07	18.95
21	20.18	17.51	11.66	9.63	6.22	5.10	5.81	7.31	10.21	11.23	18.09	19.08
22	20.41	17.53	11.57	9.55	6.03	4.92	5.96	7.65	10.12	11.88	18.13	19.28
23	20.61	17.51	11.47	9.40	5.85	4.96	6.10	7.80	10.07	12.41	18.22	19.27
24	20.82	17.44	11.39	9.28	5.70	4.96	6.12	8.00	10.09	12.59	18.19	18.94
25	20.93	17.28	11.30	9.11	5.54	5.01	6.21	8.14	10.08	12.65	17.90	18.40
26	20.88	17.19	11.21	8.98	5.39	5.02	6.32	8.18	9.84	12.80	17.47	17.90
27	20.78	17.07	11.08	8.86	5.26	5.02	6.41	8.20	9.71	13.07	17.63	17.48
28	20.52	16.69	10.95	8.72	5.19	5.04	6.40	8.22	9.49	13.34	17.63	17.15
29	20.05	16.42	10.83	8.57	5.14	5.08	6.26	8.22	9.88	13.70	17.65	16.94
30	19.59	16.19	10.68	8.45	---	5.43	6.14	8.27	10.23	14.00	17.96	17.09
31	19.18	---	10.57	8.36	---	5.59	---	8.30	---	14.20	18.21	---
MEAN	19.42	16.98	13.15	9.74	6.91	4.93	5.68	7.39	10.02	10.98	16.90	18.40
MAX	20.93	18.79	16.47	10.45	8.30	5.59	6.41	8.30	10.98	14.20	18.22	19.28
MIN	18.34	16.08	10.57	8.36	5.14	4.49	4.76	6.05	8.23	9.41	14.32	16.94

SAUNDERS COUNTY

410401096195201 Local number 13N 10E 30DAAB m90-20r

LOCATION—Lat 41º04'01", long 096º19'52", NW 1/4 NE 1/4 NE 1/4 SE 1/4 sec. 30, T. 13 N., R. 10 E., Hydrologic Unit 10200202, 1.5 mi north and 1.9 mi east of Ashland. Near Administration building for Nebraska National Guard camp, approximately 75 ft from right bank of Platte River.

AQUIFER—Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 71 ft., screened 60 to 71 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,060 ft. Measuring point: Top of casing 3.6 ft above land-surface datum.

REMARKS—Water levels affected by Platte River stage. Starting in April 1991, recorder instrument set to read depth below measuring point.

PERIOD OF RECORD—August 1990 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level measured, 2.54 ft below land-surface datum, Feb. 21, 1997; lowest, 11.92 ft below land-surface datum, Sept. 6, 1991.

STATION NUMBER 410401096195201 13N 10E 30DAAB 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.50	10.44	10.31	9.34	9.32	7.38	8.33	8.99	8.56	9.72	10.05	10.60
2	10.33	10.45	10.14	9.37	9.30	7.30	8.51	9.02	8.35	9.74	10.11	10.65
3	10.54	10.34	10.05	9.31	9.19	7.35	8.60	9.10	8.63	9.68	10.22	10.68
4	10.60	10.08	10.11	9.84	9.13	7.50	8.68	9.12	9.01	9.61	10.15	10.77
5	10.60	10.05	10.16	10.16	9.04	7.54	8.68	9.16	9.17	9.26	10.02	10.74
6	10.53	9.98	10.18	10.34	8.94	7.51	8.69	9.17	9.30	9.03	10.00	10.74
7	10.54	9.94	10.31	10.34	8.88	7.72	8.68	9.24	9.30	9.00	10.14	10.75
8	10.55	9.96	10.31	10.20	8.81	7.87	8.73	9.38	9.32	8.68	10.31	10.77
9	10.59	9.95	10.12	10.13	8.68	8.06	8.87	9.36	9.46	8.64	10.38	10.83
10	10.58	9.93	10.32	10.18	8.68	8.10	8.96	9.24	9.64	8.31	10.41	10.82
11	10.57	10.01	9.90	10.21	8.71	8.21	8.78	9.24	9.72	7.95	10.33	10.84
12	10.58	9.95	9.77	10.20	8.55	8.32	8.79	9.29	9.76	8.43	10.41	10.85
13	10.51	10.00	9.54	9.86	8.48	8.40	8.79	9.21	9.08	8.50	10.36	10.87
14	10.39	9.99	9.49	9.94	8.46	8.43	8.71	9.25	9.25	8.82	10.37	10.97
15	10.43	10.03	9.41	10.03	8.41	8.42	8.79	9.27	9.29	8.92	10.33	10.97
16	10.35	9.97	9.38	9.61	8.41	8.42	8.85	9.23	9.40	8.95	10.40	10.89
17	10.36	9.99	9.41	9.29	8.41	8.40	8.89	9.17	9.53	8.95	10.42	10.87
18	10.40	10.00	9.39	9.11	8.34	8.39	8.95	9.11	9.66	9.11	10.42	10.82
19	10.44	10.06	9.37	9.10	8.26	8.47	8.98	9.06	8.76	9.21	10.41	10.79
20	10.48	10.09	9.27	9.03	8.18	8.58	9.01	8.87	9.14	9.39	10.54	10.60
21	10.53	10.12	9.07	9.21	8.12	8.58	9.03	8.84	9.25	9.48	10.57	10.62
22	10.69	10.07	9.00	9.25	7.99	8.50	9.05	8.94	9.32	9.58	10.69	10.29
23	10.75	10.10	8.47	9.36	7.91	8.50	9.03	8.40	9.18	9.61	10.68	10.29
24	10.77	10.13	8.55	9.23	7.80	8.54	8.95	6.70	9.24	9.62	10.65	10.39
25	10.79	10.33	8.72	9.23	7.64	8.54	8.71	7.06	9.30	9.60	10.54	10.35
26	10.86	10.48	8.70	9.32	7.48	8.63	8.66	7.70	9.35	9.70	10.59	9.59
27	10.89	10.32	8.84	9.52	7.56	8.63	8.69	8.17	9.43	9.78	10.61	9.64
28	10.89	10.39	8.88	9.49	7.58	8.42	8.78	8.43	9.54	9.87	10.57	9.70
29	10.76	10.40	9.12	9.17	7.58	8.34	8.87	8.67	9.57	9.88	10.56	9.76
30	10.65	10.34	9.19	9.19	---	8.26	8.92	8.74	9.66	9.93	10.57	9.80
31	10.43	---	9.27	9.32	---	8.22	---	8.79	---	9.99	10.47	---
MEAN	10.58	10.13	9.51	9.61	8.41	8.18	8.80	8.84	9.27	9.26	10.40	10.54
MAX	10.89	10.48	10.32	10.34	9.32	8.63	9.05	9.38	9.76	9.99	10.69	10.97
MIN	10.33	9.93	8.47	9.03	7.48	7.30	8.33	6.70	8.35	7.95	10.00	9.59

SAUNDERS COUNTY

410427096202501 Local number 13N 10E 19CDDD m90-17r

LOCATION—Lat 41º04'27", long 096º20'25", SE 1/4 SE 1/4 SE 1/4 SW 1/4 sec. 19, T. 13 N., R. 10 E., Hydrologic Unit 10200202, 2 mi north and 1.4 mi east of Ashland. Located on Nebraska National Guard camp approximately 400 ft from right bank of Platte River.

AQUIFER—Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 56 ft, screened 45 to 56 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,065 ft. Measuring point: Top of casing 4.0 ft above land-surface datum.

REMARKS—Water levels affected by Platte River stage. Starting in April 1991, recorder instrument set to read depth below measuring point. GOES system installed in September 1992.

PERIOD OF RECORD—August 1990 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level measured, +0.18 ft above land-surface datum, July 10, 1993; lowest, 17.38 ft below land-surface datum, Oct. 27, 1991.

STATION NUMBER 410427096202501 13N 10E 19CDDD 1 M17R

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.05	11.98	9.56	8.71	8.44	7.11	7.70	9.46	9.81	10.24	10.80	11.98
2	11.09	11.83	9.44	8.73	8.43	7.07	7.77	9.59	9.83	10.31	10.87	11.97
3	11.26	11.71	9.39	8.72	8.40	7.12	7.83	9.68	9.88	10.31	10.84	12.04
4	11.45	11.55	9.39	8.69	8.36	7.16	7.87	9.73	9.94	10.31	10.89	12.16
5	11.58	11.42	9.43	8.90	8.30	7.06	7.89	9.71	10.13	10.30	10.97	12.28
6	11.66	11.30	9.43	8.98	8.25	7.15	7.93	9.76	10.34	10.16	11.04	12.34
7	11.77	11.07	9.47	8.98	8.22	7.29	7.94	9.84	10.53	10.15	11.09	12.34
8	11.83	10.89	9.47	8.80	8.18	7.40	8.01	9.94	10.63	10.04	11.21	12.27
9	11.82	10.73	9.37	8.75	8.11	7.49	8.09	9.96	10.65	9.95	11.21	12.22
10	11.75	10.57	9.52	8.74	8.08	7.60	8.13	9.86	10.60	9.87	11.11	12.23
11	11.74	10.46	9.54	8.75	8.05	7.68	8.09	9.67	10.66	9.64	11.01	12.27
12	11.59	10.35	9.46	8.75	8.01	7.73	8.15	9.53	10.65	9.85	10.89	12.31
13	11.43	10.27	9.29	8.68	7.96	7.83	8.16	9.67	10.38	9.83	10.87	12.34
14	11.28	10.17	9.20	8.64	7.95	7.87	8.31	9.80	10.14	9.80	10.99	12.31
15	11.39	10.09	9.13	8.65	7.92	7.87	8.55	9.97	10.04	9.80	11.22	12.27
16	11.37	10.01	9.07	8.58	7.91	7.84	8.78	10.04	9.90	9.70	11.42	12.07
17	11.41	9.93	9.03	8.45	7.91	7.84	8.94	10.11	9.78	9.75	11.55	11.84
18	11.50	9.86	9.00	8.38	7.87	7.91	9.13	10.15	9.72	9.90	11.65	11.66
19	11.60	9.83	8.97	8.39	7.80	7.93	9.26	10.15	9.54	9.99	11.64	11.54
20	11.66	9.77	8.92	8.35	7.74	8.02	9.45	10.02	9.68	10.14	11.51	11.48
21	11.74	9.73	8.82	8.36	7.69	8.02	9.71	9.92	9.75	10.30	11.52	11.42
22	11.84	9.65	8.76	8.36	7.63	7.94	9.81	9.90	9.74	10.39	11.64	11.26
23	11.92	9.63	8.75	8.41	7.58	7.98	9.80	9.76	9.54	10.44	11.74	11.08
24	11.98	9.59	8.70	8.41	7.53	8.12	9.74	9.09	9.59	10.56	11.84	10.96
25	11.98	9.63	8.67	8.39	7.49	8.31	9.62	8.86	9.53	10.74	11.86	10.94
26	11.96	9.66	8.66	8.41	7.42	8.43	9.49	9.06	9.63	10.88	11.84	10.70
27	11.98	9.59	8.60	8.48	7.35	8.44	9.37	9.23	9.71	10.90	11.74	10.76
28	12.08	9.56	8.56	8.50	7.35	8.20	9.27	9.37	9.80	10.83	11.72	10.91
29	12.14	9.56	8.64	8.42	7.30	8.03	9.24	9.59	9.86	10.77	11.88	11.02
30	12.17	9.57	8.68	8.38	---	7.86	9.29	9.78	10.06	10.73	12.01	11.11
31	12.10	---	8.72	8.42	---	7.72	---	9.82	---	10.75	12.00	---
MEAN	11.68	10.33	9.09	8.59	7.90	7.74	8.71	9.71	10.00	10.24	11.37	11.74
MAX	12.17	11.98	9.56	8.98	8.44	8.44	9.81	10.15	10.66	10.90	12.01	12.34
MIN	11.05	9.56	8.56	8.35	7.30	7.06	7.70	8.86	9.53	9.64	10.80	10.70

SAUNDERS COUNTY

410428096211001 Local number 13N 9E 24DDCC m90-16r

LOCATION—Lat 41º04'28", long 096º21'10", SW 1/4 SW 1/4 SE 1/4 SE 1/4 sec. 24, T. 13 N., R. 9 E., Hydrologic Unit 10200202, 2 mi north on Highway 63 and 0.8 mi east of Ashland.

AQUIFER—Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 55 ft, screened 45 to 55 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,064 ft. Measuring point: Top of casing 4.5 ft above land-surface datum.

REMARKS—Water levels affected by nearby pumping of municipal wells. Starting in April 1991, recorder instrument set to read depth below measuring point.

PERIOD OF RECORD—August 1990 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level measured, 3.94 ft above land-surface datum, Mar. 11, 1993; lowest, 18.61 ft below land-surface datum, Oct. 15, 1991.

STATION NUMBER 410428096211001 13N 9E 24DDCC 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.57	5.56	4.19	4.00	3.68	3.18	2.81	3.32	4.08	4.12	4.51	5.65
2	5.63	5.59	4.16	4.01	3.66	3.18	2.81	3.37	4.08	4.12	4.63	5.60
3	5.55	5.59	4.10	4.02	3.67	3.16	2.84	3.46	4.15	3.99	4.74	5.68
4	5.46	5.46	4.05	4.00	3.65	3.13	2.86	3.59	4.12	4.04	4.73	5.70
5	5.48	5.46	4.00	4.02	3.64	2.97	2.92	3.50	3.99	4.10	4.77	5.72
6	5.55	5.40	3.97	4.00	3.63	2.89	3.05	3.49	4.04	4.16	4.74	5.79
7	5.63	5.36	3.90	3.97	3.64	2.92	3.00	3.60	4.12	4.16	4.71	5.84
8	5.79	5.30	3.89	3.98	3.61	2.97	3.09	3.53	4.28	4.09	4.75	5.90
9	5.70	5.24	3.89	3.98	3.61	3.01	3.10	3.54	4.18	4.05	4.80	5.92
10	5.66	5.18	3.91	3.96	3.59	3.07	2.98	3.59	4.29	4.04	4.80	5.95
11	5.57	5.12	3.96	3.93	3.59	3.11	2.99	3.75	4.18	4.04	4.78	5.84
12	5.52	5.05	3.99	3.93	3.59	3.13	3.17	3.74	4.17	4.08	4.89	5.86
13	5.54	5.01	4.01	3.92	3.55	3.18	3.15	3.69	3.87	4.10	4.94	6.00
14	5.43	4.90	4.02	3.90	3.55	3.20	3.07	3.79	3.82	4.10	4.85	6.03
15	5.42	4.81	4.08	3.89	3.55	3.20	3.09	3.78	3.82	4.10	4.93	5.98
16	5.52	4.73	4.12	3.85	3.54	3.14	3.20	3.81	3.83	4.11	5.09	6.00
17	5.49	4.66	4.12	3.86	3.55	3.13	3.12	3.87	3.96	4.10	5.09	5.84
18	5.35	4.57	4.14	3.86	3.51	3.17	3.19	3.96	3.83	4.16	5.25	5.79
19	5.33	4.56	4.15	3.84	3.48	3.16	3.28	3.95	3.80	4.35	5.18	5.66
20	5.41	4.45	4.13	3.82	3.48	3.19	3.39	3.98	3.82	4.33	5.19	5.65
21	5.45	4.46	4.13	3.81	3.45	3.19	3.49	4.01	3.93	4.41	5.22	5.66
22	5.52	4.35	4.14	3.81	3.39	3.14	3.42	3.90	3.97	4.34	5.18	5.38
23	5.59	4.27	4.13	3.77	3.33	3.10	3.54	3.91	3.92	4.40	5.26	5.36
24	5.59	4.24	4.13	3.78	3.32	3.10	3.39	3.92	3.85	4.36	5.38	5.41
25	5.42	4.17	4.09	3.74	3.32	3.10	3.21	4.02	3.88	4.42	5.37	5.30
26	5.40	4.15	4.08	3.71	3.32	3.10	3.37	4.02	3.84	4.47	5.34	5.29
27	5.43	4.12	4.03	3.71	3.31	3.07	3.28	3.92	3.89	4.54	5.36	5.44
28	5.53	4.11	4.02	3.71	3.30	2.89	3.28	4.00	4.13	4.65	5.31	5.43
29	5.57	4.09	4.02	3.71	3.27	2.86	3.49	3.90	4.03	4.54	5.38	5.42
30	5.62	4.18	4.02	3.70	---	2.86	3.43	3.90	4.13	4.53	5.51	5.57
31	5.61	---	4.04	3.68	---	2.84	---	3.93	---	4.48	5.53	---
MEAN	5.53	4.80	4.05	3.87	3.51	3.08	3.17	3.77	4.00	4.24	5.04	5.69
MAX	5.79	5.59	4.19	4.02	3.68	3.20	3.54	4.02	4.29	4.65	5.53	6.03
MIN	5.33	4.09	3.89	3.68	3.27	2.84	2.81	3.32	3.80	3.99	4.51	5.29

SAUNDERS COUNTY

410527096203201 Local number 13N 10E 18CDBD m90-12r

LOCATION—Lat 41º05'27", long 096º20'32", SE 1/4 NW 1/4 SE 1/4 SW 1/4 sec. 18, T. 13 N., R. 10 E., Hydrologic Unit 10200202, 3.15 mi north and 1.3 mi east of Ashland. Located on Nebraska National Guard camp approximately 600 ft from right bank of Platte River.

AQUIFER—Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 56 ft, screened 45 to 56 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,065 ft. Measuring point: Top of casing 4.0 ft above land-surface datum.

REMARKS—Water levels affected by nearby pumping and Platte River stage. Starting in April 1991, recorder instrument set to read depth below measuring point.

PERIOD OF RECORD—August 1990 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level measured, 0.62 ft above land-surface datum, Mar. 10, 1993; lowest, 10.93 ft below land-surface datum, Sept. 10 1991.

STATION NUMBER 410527096203201 13N 10E18CDBD1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.00	8.46	6.94	6.81	6.75	6.10	7.75	6.93	6.65	8.55	8.99	9.13
2	8.89	8.61	6.78	6.85	6.70	6.02	7.82	6.98	6.50	8.61	8.77	9.25
3	8.93	8.67	6.71	6.84	6.69	5.96	7.87	7.06	7.03	8.63	8.93	9.33
4	8.98	8.63	6.68	6.78	6.68	5.97	7.91	7.60	7.45	8.63	8.93	9.40
5	9.02	8.53	6.70	6.33	6.64	5.93	7.95	8.11	7.75	8.50	8.95	9.40
6	8.97	8.18	6.70	6.37	6.56	5.92	7.98	8.40	7.96	8.42	8.94	9.38
7	8.65	7.65	6.73	6.39	6.53	6.02	7.98	8.60	8.14	8.35	8.51	9.38
8	8.21	7.38	6.72	6.20	6.44	6.14	8.04	8.71	8.22	8.27	8.11	9.39
9	7.98	7.22	6.75	6.10	6.30	6.26	8.11	8.76	8.28	8.20	7.93	9.41
10	7.85	7.07	7.09	6.17	6.28	6.36	8.16	8.77	8.32	7.98	8.07	9.46
11	7.81	7.02	7.27	6.25	6.27	6.43	8.14	8.74	8.40	7.17	8.48	9.48
12	7.69	6.97	7.33	6.26	6.22	6.41	8.14	8.78	8.47	7.09	8.79	9.42
13	7.59	6.96	7.30	6.16	6.19	6.45	7.67	8.75	8.01	7.54	8.94	9.39
14	7.44	6.89	7.31	6.22	6.20	6.45	7.17	8.71	7.51	7.84	9.04	9.48
15	7.36	6.88	7.24	6.29	6.20	6.45	7.56	8.30	7.30	8.04	9.05	9.48
16	7.30	6.83	7.22	6.14	6.29	6.45	7.92	7.83	7.26	8.13	9.09	9.24
17	7.25	6.80	7.21	5.95	6.33	6.42	8.13	7.87	7.28	8.16	9.16	8.74
18	7.61	6.80	7.19	5.84	6.30	6.46	8.27	8.25	7.27	7.79	9.20	8.39
19	8.05	6.81	7.07	5.92	6.26	6.44	8.32	8.38	7.06	7.80	9.20	8.51
20	8.27	6.86	7.00	5.93	6.27	6.49	8.34	8.36	6.82	8.18	9.20	8.76
21	8.40	6.92	6.90	6.04	6.25	6.50	8.13	8.28	6.87	8.44	9.19	8.85
22	8.50	6.79	6.87	6.12	6.30	6.41	7.58	8.31	6.89	8.44	9.22	8.37
23	8.53	6.80	6.82	6.26	6.31	6.92	7.25	7.99	7.37	8.53	9.23	8.19
24	8.09	6.79	6.71	6.27	6.30	7.38	7.06	7.53	7.72	8.63	9.24	8.56
25	7.66	6.92	6.69	6.36	6.24	7.66	6.90	7.31	7.93	8.66	9.18	8.66
26	7.45	7.00	6.68	6.43	6.19	7.81	6.82	7.20	7.93	8.72	8.86	8.59
27	7.29	6.93	6.60	6.60	6.14	7.83	6.81	6.93	8.01	8.79	8.95	8.60
28	7.23	6.88	6.54	6.65	6.18	7.84	6.82	7.01	8.13	8.86	9.01	8.36
29	7.37	6.89	6.65	6.70	6.18	7.82	6.87	6.83	8.33	8.94	9.03	8.43
30	7.90	6.96	6.71	6.76	---	7.76	6.89	6.77	8.47	9.03	9.08	8.53
31	8.26	---	6.77	6.78	---	7.70	---	6.74	---	9.04	9.08	---
MEAN	8.05	7.27	6.90	6.35	6.35	6.67	7.68	7.90	7.64	8.32	8.91	8.99
MAX	9.02	8.67	7.33	6.85	6.75	7.84	8.34	8.78	8.47	9.04	9.24	9.48
MIN	7.23	6.79	6.54	5.84	6.14	5.92	6.81	6.74	6.50	7.09	7.93	8.19

SAUNDERS COUNTY

410558096210601 Local number 13N 9E 13ADBA m90—5r

LOCATION—Lat 41º05'58", long 096º21'06", NE 1/4 NW 1/4 SE 1/4 NE 1/4 sec. 13, T. 13 N., R. 9 E., Hydrologic Unit 10200202, approximately 3.75 mi north and 0.85 mi east of Ashland.

AQUIFER—Alluvial sand and gravel deposits of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 4 in., depth 91 ft, screened 80 to 91 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 1,075 ft. Measuring point: Top of casing 4.40 ft above land-surface datum.

REMARKS—Well drilled June 1990. Starting in April 1991, recorder instrument set to read depth below measuring point.

PERIOD OF RECORD—August 1990 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level measured, 6.77 ft below land-surface datum, Mar. 13, 1993; lowest, 14.95 ft below land-surface datum, June 2, 2003.

STATION NUMBER 410558096210601 13N 9E13ADBA1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.16	13.31	13.30	13.42	13.16	13.05	12.36	12.35	12.83	12.73	13.05	13.50
2	13.12	13.38	13.24	13.42	13.14	13.03	12.38	12.50	12.81	12.71	13.08	13.49
3	13.08	13.38	13.09	13.43	13.15	13.03	12.37	12.54	12.72	12.77	13.07	13.36
4	13.09	13.22	13.02	13.42	13.16	13.01	12.50	12.52	12.66	12.83	13.07	13.35
5	13.22	13.17	13.02	13.41	13.16	12.97	12.53	12.47	12.62	12.89	13.06	13.41
6	13.28	13.15	12.97	13.40	13.15	12.92	12.49	12.44	12.71	12.92	13.08	13.49
7	13.27	13.10	12.91	13.40	13.14	12.91	12.42	12.43	12.74	12.87	13.15	13.51
8	13.21	13.22	12.94	13.40	13.14	12.91	12.37	12.44	12.71	12.70	13.23	13.43
9	13.17	13.31	13.05	13.40	13.14	12.91	12.33	12.58	12.65	12.68	13.24	13.31
10	13.11	13.34	13.17	13.39	13.14	12.91	12.28	12.60	12.64	12.68	13.22	13.21
11	13.16	13.25	13.24	13.38	13.15	12.92	12.42	12.58	12.63	12.79	13.19	13.25
12	13.27	13.16	13.29	13.38	13.14	12.92	12.46	12.50	12.63	12.82	13.18	13.35
13	13.30	13.10	13.33	13.37	13.14	12.92	12.43	12.54	12.60	12.84	13.17	13.37
14	13.23	13.06	13.36	13.36	13.15	12.93	12.38	12.53	12.64	12.85	13.23	13.34
15	13.14	13.02	13.38	13.36	13.15	12.93	12.32	12.49	12.60	12.79	13.28	13.25
16	13.07	13.14	13.41	13.35	13.15	12.89	12.31	12.61	12.56	12.83	13.30	13.21
17	13.04	13.16	13.42	13.34	13.15	12.89	12.33	12.66	12.58	12.86	13.23	13.19
18	13.04	13.12	13.43	13.34	13.15	12.89	12.49	12.64	12.58	12.95	13.14	13.19
19	13.18	13.05	13.44	13.33	13.15	12.88	12.56	12.56	12.62	12.98	13.09	13.29
20	13.23	13.05	13.44	13.32	13.14	12.86	12.51	12.51	12.72	12.94	13.14	13.32
21	13.21	13.02	13.45	13.32	13.14	12.85	12.44	12.47	12.74	12.94	13.16	13.28
22	13.14	12.98	13.45	13.31	13.13	12.84	12.40	12.50	12.72	12.95	13.27	13.06
23	13.08	12.97	13.44	13.30	13.12	12.75	12.38	12.62	12.67	12.91	13.30	13.02
24	13.07	13.04	13.43	13.30	13.11	12.60	12.35	12.66	12.61	12.94	13.26	12.98
25	13.21	13.02	13.41	13.29	13.11	12.47	12.45	12.63	12.59	13.03	13.20	13.07
26	13.32	12.99	13.41	13.24	13.11	12.39	12.50	12.59	12.66	13.05	13.13	13.19
27	13.34	13.10	13.41	13.19	13.11	12.35	12.48	12.54	12.78	13.03	13.17	13.23
28	13.30	13.18	13.41	13.18	13.11	12.43	12.40	12.54	12.81	13.02	13.28	13.18
29	13.24	13.24	13.42	13.18	13.09	12.47	12.39	12.67	12.78	12.94	13.34	13.11
30	13.17	13.29	13.43	13.17	---	12.43	12.37	12.73	12.73	12.92	13.39	13.16
31	13.20	---	13.43	13.17	---	12.39	---	12.81	---	12.94	13.46	---
MEAN	13.18	13.15	13.29	13.33	13.14	12.80	12.41	12.56	12.68	12.87	13.20	13.27
MAX	13.34	13.38	13.45	13.43	13.16	13.05	12.56	12.81	12.83	13.05	13.46	13.51
MIN	13.04	12.97	12.91	13.17	13.09	12.35	12.28	12.35	12.56	12.68	13.05	12.98

SCOTTS BLUFF COUNTY

414321103550801 Local number 20N 57W 8BDDA1 Murray Lake

LOCATION—Lat 41°43'21", long 103°55'08", NW ¼ SE1/4 SE ¼ NE ¼ sec. 8, T. 20 N., R. 57 W., Hydrologic Unit 10180013.

AQUIFER—Brule Formation of Tertiary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 2.5 in., depth 110 ft, casing perforated 70 to 110 ft.

DATUM—Altitude of land-surface datum is 4,413 ft. Measuring point: top of casing, 2.84 ft above land-surface datum.

PERIOD OF RECORD—July 1999 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 6.56 ft. below land-surface datum, Mar. 13, 2000; lowest, 50.26 ft. below land-surface datum, Aug. 24, 2004.

STATION NUMBER 414321103550801

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48.95	48.21	47.54	47.00	46.61	46.31	46.03	45.80	46.67	47.34	47.05	49.36
2	49.06	48.19	47.50	46.98	46.61	46.30	46.04	45.81	46.98	47.28	47.71	49.76
3	48.90	48.14	47.49	46.97	46.58	46.29	46.04	46.38	47.57	47.35	48.18	50.04
4	48.70	48.12	47.49	46.97	46.57	46.27	46.00	46.86	47.70	47.67	48.52	49.57
5	48.59	48.10	47.45	46.97	46.57	46.27	46.00	47.18	47.98	47.81	48.72	49.33
6	48.53	48.07	47.41	46.95	46.57	46.29	45.99	47.12	48.19	47.79	48.89	49.14
7	48.48	48.04	47.38	46.92	46.55	46.28	45.99	46.77	48.17	47.60	49.01	48.99
8	48.44	48.02	47.38	46.92	46.54	46.26	45.97	46.53	47.81	47.46	49.10	49.11
9	48.39	47.98	47.37	46.92	46.54	46.26	45.97	46.36	48.19	47.38	49.10	49.13
10	48.69	47.95	47.34	46.90	46.53	46.24	45.96	46.27	48.47	47.39	48.69	49.15
11	48.99	47.93	47.32	46.88	46.52	46.23	45.95	46.16	48.63	47.32	48.56	49.30
12	48.95	47.93	47.30	46.87	46.51	46.21	45.95	46.31	48.77	47.58	48.93	49.56
13	48.77	47.90	47.29	46.86	46.48	46.22	45.92	47.04	48.81	48.13	49.17	49.54
14	48.66	47.85	47.26	46.85	46.48	46.21	45.90	47.40	48.48	48.27	49.31	49.27
15	48.59	47.83	47.27	46.82	46.47	46.18	45.91	47.38	48.10	48.15	49.42	49.06
16	48.54	47.82	47.25	46.81	46.47	46.16	45.90	47.59	47.86	47.84	49.51	48.91
17	48.51	47.79	47.24	46.81	46.45	46.15	45.89	47.71	48.05	47.62	49.59	48.81
18	48.48	47.77	47.24	46.79	46.44	46.16	45.90	47.47	48.14	47.46	49.66	48.72
19	48.46	47.76	47.21	46.77	46.42	46.15	45.89	47.08	48.12	47.35	49.60	48.66
20	48.45	47.73	47.17	46.77	46.42	46.17	45.84	46.85	47.92	47.26	49.19	48.58
21	48.43	47.71	47.16	46.76	46.40	46.15	45.86	46.71	47.75	47.20	49.43	48.55
22	48.71	47.69	47.16	46.75	46.39	46.11	45.87	47.37	47.61	47.16	49.65	48.49
23	49.04	47.67	47.14	46.72	46.39	46.09	45.86	47.79	47.51	47.13	49.77	48.44
24	49.02	47.65	47.12	46.70	46.37	46.08	45.84	47.81	47.72	47.12	49.80	48.41
25	48.86	47.61	47.09	46.69	46.36	46.08	45.84	47.49	47.92	47.10	49.55	48.37
26	48.75	47.60	47.08	46.69	46.34	46.07	45.85	47.60	47.96	47.05	49.23	48.33
27	48.67	47.61	47.06	46.67	46.34	46.06	46.26	47.53	47.88	47.01	49.02	48.29
28	48.43	47.59	47.06	46.66	46.33	46.06	---	47.06	47.70	46.99	48.88	48.27
29	48.33	47.54	47.04	46.65	46.30	46.05	46.27	46.85	47.54	46.97	48.75	48.23
30	48.31	47.56	47.02	46.63	---	46.50	45.81	46.80	47.44	47.42	48.69	48.19
31	48.27	---	47.02	46.62	---	46.03	---	46.73	---	46.98	49.16	---
MEAN	48.64	47.85	47.25	46.82	46.47	46.19	---	46.96	47.92	47.43	49.03	48.92
MAX	49.06	48.21	47.54	47.00	46.61	46.50	---	47.81	48.81	48.27	49.80	50.04
MIN	48.27	47.54	47.02	46.62	46.30	46.03	---	45.80	46.67	46.97	47.05	48.19

SCOTTS BLUFF COUNTY

415325103392801 Local number 22N 55W 11DDC Scottsbluff

LOCATION—Lat 41º53'25", long 103º39'28", SW 1/4 SE 1/4 SE 1/4 sec. 11, T. 22 N., R. 55 W., Hydrologic Unit 10180009, 0.5 mi north of the west intersection of Routes 71 and 26 in Scottsbluff, then 0.8 mi east.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 6 in., depth 32 ft, casing perforated below water table.

DATUM—Altitude of land-surface datum is 3,953 ft. Measuring point: Top of casing 0.00 ft above land-surface datum.

REMARKS—Recorder removed in January 1984. Well measured monthly until recorder reinstalled January 1985.

PERIOD OF RECORD—August 1962 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 21.27 ft below land-surface datum, Sept. 9, 1986; lowest, 28.33 ft below land-surface datum, Sept. 7,8,9,10,11, 2004.

STATION NUMBER 415325103392801 22N 55W11DDC 1 SCOTTSBLUFF

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.32	27.20	---	26.91	27.00	27.10	27.25	27.40	27.73	28.00	28.04	28.25
2	27.31	27.19	---	26.91	27.00	27.11	27.27	27.41	27.74	28.01	28.04	28.25
3	27.30	27.18	26.94	26.91	27.00	27.11	27.28	27.41	27.74	28.01	28.04	28.26
4	27.30	27.17	26.94	26.92	27.00	27.11	27.28	27.42	27.75	28.01	28.10	28.31
5	27.29	27.16	26.94	26.92	27.01	27.11	27.28	27.43	27.75	28.03	28.13	28.32
6	27.29	27.15	26.94	26.93	27.01	27.11	27.29	27.46	27.76	28.05	28.15	28.32
7	27.28	27.14	26.93	26.93	27.01	27.12	27.30	27.47	27.76	28.05	28.15	28.33
8	27.29	27.13	26.93	26.93	27.02	27.13	27.31	27.48	27.78	28.07	28.15	28.33
9	27.29	27.12	26.93	26.93	27.03	27.14	27.33	27.49	27.81	28.09	28.15	28.33
10	27.30	27.12	26.93	26.93	27.03	27.15	27.33	27.54	27.83	28.10	28.15	28.33
11	27.32	27.11	26.93	26.93	27.03	27.16	27.33	27.54	27.83	28.10	28.19	28.33
12	27.32	27.09	26.92	26.93	27.04	27.16	27.34	27.55	27.83	28.10	28.19	28.31
13	27.31	27.09	26.92	26.94	27.04	27.17	27.34	27.56	27.83	28.06	28.18	28.31
14	27.31	27.08	26.91	26.94	27.04	27.17	27.35	27.56	27.84	28.05	28.17	28.31
15	27.29	27.07	26.91	26.94	27.04	27.17	27.35	27.57	27.85	27.98	28.19	28.28
16	27.28	27.06	26.91	26.94	27.05	27.18	27.35	27.58	27.88	27.95	28.20	28.27
17	27.27	27.05	26.91	26.95	27.05	27.18	27.35	27.59	27.90	27.95	28.22	28.27
18	27.26	27.04	26.91	26.95	27.06	27.18	27.36	27.61	27.91	27.95	28.24	28.27
19	27.26	27.04	26.91	26.95	27.07	27.18	27.37	27.61	27.93	28.02	28.24	28.25
20	27.25	27.03	26.91	26.96	27.07	27.19	27.37	27.62	27.93	28.04	28.24	28.25
21	27.24	27.02	26.91	26.97	27.07	27.20	27.37	27.63	27.94	28.04	28.24	28.25
22	27.24	27.02	26.91	26.97	27.07	27.20	27.39	27.64	27.95	28.04	28.24	28.24
23	27.24	27.01	26.91	26.97	27.08	27.21	27.40	27.65	27.95	28.09	28.24	28.23
24	27.24	27.01	26.91	26.97	27.08	27.22	27.38	27.66	27.95	28.09	28.24	28.22
25	27.24	27.00	26.91	26.97	27.08	27.22	27.39	27.66	27.95	28.05	28.24	28.21
26	27.24	27.00	26.91	26.97	27.08	27.25	27.39	27.67	27.98	27.95	28.24	28.21
27	27.24	26.98	26.90	26.98	27.09	27.25	27.38	27.68	27.98	27.93	28.24	28.21
28	27.25	26.98	26.90	26.98	27.10	27.26	---	27.69	27.98	28.01	28.25	28.21
29	27.24	26.98	26.90	26.98	27.10	27.26	27.39	27.70	27.98	28.01	28.25	28.20
30	27.20	26.97	26.90	26.99	---	27.24	27.40	27.71	27.98	28.03	28.25	28.18
31	27.20	---	26.91	26.99	---	27.24	---	27.72	---	28.04	28.25	---
MEAN	27.27	27.07	---	26.95	27.05	27.18	---	27.57	27.87	28.03	28.19	28.27
MAX	27.32	27.20	---	26.99	27.10	27.26	---	27.72	27.98	28.10	28.25	28.33
MIN	27.20	26.97	---	26.91	27.00	27.10	---	27.40	27.73	27.93	28.04	28.18

415628103554902 Local number 23N 57W 28AAAA2 Morrill 1L

LOCATION—Lat 41º56'28", long 103º55'49", NE ¼ NE ¼ NE ¼ NE ¼ sec. 28, T.23N., R.57W., Hydrologic Unit 10180009.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary and Pliocene age.

WELL CHARACTERISTICS—Drilled observations water-table well, diameter 2.5 in., depth 68 ft, casing perforated 63 to 68 ft.

DATUM—Altitude of land-surface datum is 3,980 ft. Measuring point: 2.61 ft above land-surface datum.

PERIOD OF RECORD—May 1996 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 0.94 ft. below land-surface datum, May 30, 1996; lowest, 6.80 ft. below land-surface datum, July 13, 14, 2004.

STATION NUMBER 415628103554902 23N 57W28AAAA2 MORRILL 1L

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	5.39	5.50	5.68	5.83	5.90	5.97	6.10	6.59	6.36	6.12	6.02
2	---	5.39	5.50	5.69	5.84	5.91	5.97	6.11	6.55	6.47	6.21	6.01
3	4.96	5.38	5.50	5.69	5.84	5.91	5.98	6.13	6.56	6.58	6.22	5.98
4	4.99	5.37	5.52	5.70	5.84	5.91	5.97	6.14	6.56	6.65	6.18	6.00
5	5.02	5.37	5.53	5.72	5.85	5.91	5.97	6.16	6.56	6.70	6.16	6.00
6	5.08	5.37	5.53	5.76	5.85	5.91	5.97	6.18	6.56	6.72	6.21	5.86
7	5.13	5.37	5.53	5.78	5.85	5.92	5.97	6.18	6.56	6.74	6.21	5.77
8	5.20	5.38	5.54	5.78	5.86	5.91	5.97	6.18	6.56	6.77	6.17	5.76
9	5.22	5.38	5.54	5.74	5.86	5.88	5.97	6.17	6.55	6.79	6.14	5.76
10	5.12	5.39	5.54	5.69	5.86	5.87	5.97	6.18	6.52	6.78	6.10	5.79
11	5.15	5.40	5.55	5.71	5.87	5.88	5.98	6.20	6.48	6.79	6.08	5.80
12	5.17	5.41	5.56	5.72	5.88	5.88	5.99	6.22	6.38	6.78	6.11	5.83
13	5.21	5.41	5.56	5.73	5.88	5.88	5.99	6.23	6.44	6.80	6.18	5.84
14	5.20	5.41	5.56	5.73	5.88	5.89	6.00	6.25	6.47	6.80	6.22	5.84
15	5.22	5.42	5.58	5.73	5.88	5.89	6.00	6.27	6.47	6.78	6.24	5.84
16	5.26	5.42	5.59	5.74	5.89	5.89	6.00	6.28	6.47	6.69	6.28	5.83
17	5.27	5.43	5.60	5.74	5.89	5.89	6.01	6.29	6.49	6.69	6.32	5.84
18	5.29	5.45	5.61	5.75	5.88	5.90	6.02	6.32	6.49	6.69	6.31	5.85
19	5.33	5.45	5.62	5.75	5.88	5.91	6.02	6.34	6.48	6.74	6.28	5.92
20	5.36	5.47	5.62	5.76	5.87	5.91	6.04	6.36	6.46	6.75	6.04	5.96
21	5.41	5.48	5.62	5.76	5.88	5.92	6.10	6.37	6.33	6.75	5.78	5.96
22	5.40	5.48	5.63	5.80	5.88	5.92	6.14	6.39	6.17	6.70	5.74	5.88
23	5.48	5.48	5.63	5.80	5.89	5.93	6.15	6.41	6.10	6.51	5.84	5.83
24	5.47	5.48	5.63	5.80	5.89	5.94	6.10	6.46	6.09	6.34	5.88	5.83
25	5.48	5.47	5.64	5.81	5.89	5.94	6.01	6.51	6.14	6.13	5.85	5.83
26	5.47	5.48	5.64	5.82	5.89	5.94	5.97	6.54	6.14	5.97	5.82	5.84
27	5.48	5.49	5.65	5.83	5.90	5.95	5.96	6.55	6.16	5.90	5.86	5.86
28	5.48	5.49	5.66	5.83	5.90	5.95	---	6.56	6.16	5.93	5.87	5.86
29	5.42	5.49	5.67	5.83	5.90	5.96	6.06	6.58	6.22	5.95	5.92	5.84
30	5.41	5.50	5.67	5.83	---	5.96	6.08	6.59	6.28	5.97	5.95	5.80
31	5.41	---	5.67	5.83	---	5.96	---	6.59	---	6.03	6.00	---
MEAN	---	5.43	5.59	5.76	5.87	5.91	---	6.32	6.40	6.52	6.07	5.87
MAX	---	5.50	5.67	5.83	5.90	5.96	---	6.59	6.59	6.80	6.32	6.02
MIN	---	5.37	5.50	5.68	5.83	5.87	---	6.10	6.09	5.90	5.74	5.76

SIOUX COUNTY

420301103554802 Local number 24N 57W 15CBBD2 Dutch Flats 1A

LOCATION—Lat 42º03'00.99", long 103º55'48.84", SW ¼ NW ¼ NW ¼ SE ¼ sec. 15, T. 24 N., R. 47 W., Hydrologic Unit 10180009.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 2.5 in., depth 113.5 ft, casing perforated 108.5 to 113.5 ft.

DATUM—Altitude of land-surface datum is 4,210.15 ft. Measuring point: top of casing, 2.49 ft above land-surface datum.

PERIOD OF RECORD—July 1995 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 75.16 ft. below land-surface datum, July 5, 1995; lowest, 84.41 ft. below land-surface datum, June 4, 5, 2004.

STATION NUMBER 420301103554802

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78.53	79.19	80.53	81.77	82.71	83.43	84.11	84.68	85.22	82.22	80.07	79.98
2	78.50	78.19	80.59	81.82	82.73	83.44	84.14	84.68	85.27	82.22	80.05	79.01
3	78.52	78.21	80.62	81.84	82.75	83.46	84.15	84.70	85.40	82.21	80.00	79.03
4	78.50	78.32	80.69	81.90	82.78	83.47	84.14	84.71	85.45	82.23	80.01	80.26
5	78.52	79.40	80.69	81.93	82.82	83.50	84.18	84.73	85.45	82.24	79.95	79.03
6	78.52	79.44	80.71	81.96	82.84	83.55	84.18	84.87	85.44	82.21	79.90	80.08
7	78.51	79.48	80.75	81.96	82.84	83.56	84.21	84.98	85.19	82.12	79.85	80.03
8	78.54	79.52	80.84	82.01	82.90	83.59	84.22	84.97	85.22	82.08	79.88	80.04
9	78.55	79.54	80.86	82.04	82.93	83.58	84.25	84.90	85.12	82.02	79.82	80.07
10	78.63	79.60	80.88	82.05	82.94	83.64	84.27	84.90	84.82	81.93	79.76	80.15
11	78.63	79.70	80.93	82.10	82.99	83.65	84.29	84.92	84.61	81.83	79.73	80.17
12	78.62	79.73	80.96	82.13	82.98	83.64	84.31	83.87	84.63	81.71	79.70	80.19
13	78.64	79.74	81.00	82.16	83.02	83.71	84.31	84.88	84.62	81.59	79.65	80.39
14	78.63	79.79	81.02	82.17	83.03	83.71	84.33	84.98	84.58	81.57	79.61	80.68
15	78.64	79.83	81.12	81.14	83.06	83.73	84.36	84.98	84.48	81.31	79.58	80.87
16	78.71	79.85	81.14	---	83.10	83.74	84.38	84.97	84.38	81.17	79.58	81.04
17	78.68	79.95	81.21	---	83.11	83.78	84.39	84.97	84.10	81.03	79.53	81.13
18	78.84	80.01	81.23	---	83.12	83.78	84.45	84.97	83.86	80.90	79.51	81.10
19	79.03	80.00	81.23	---	83.17	83.85	84.44	84.96	83.64	80.84	79.51	80.97
20	79.03	80.09	80.20	---	83.18	83.86	84.46	85.02	83.44	80.79	79.47	81.13
21	78.96	80.10	---	81.37	83.20	83.86	84.49	85.07	83.28	80.78	79.43	81.09
22	78.90	80.17	---	82.42	83.23	83.86	84.54	85.08	83.09	80.77	79.40	81.02
23	78.91	80.20	---	82.45	83.26	83.87	84.56	85.11	82.95	80.62	79.38	81.09
24	78.95	80.22	---	82.44	83.28	83.91	84.59	85.12	82.77	80.52	79.38	81.10
25	78.95	80.25	---	82.52	83.30	83.95	84.60	85.13	82.61	80.42	79.36	81.11
26	78.91	80.35	---	82.55	83.32	83.95	84.61	85.15	82.48	80.32	79.35	81.13
27	78.95	80.40	---	82.58	83.34	83.97	83.59	85.17	82.41	80.26	79.36	81.36
28	78.96	80.40	---	82.58	83.36	84.00	84.63	85.15	82.33	80.25	79.32	81.46
29	79.06	80.44	---	82.62	83.38	84.02	84.65	85.20	82.26	80.19	79.30	81.39
30	79.12	80.54	80.69	82.63	---	84.05	84.67	85.21	82.24	79.12	79.55	81.41
31	79.16	---	81.73	82.67	---	84.07	---	85.23	---	80.09	79.81	---
MEAN	78.76	79.75	---	---	83.06	83.75	84.35	84.94	84.04	81.21	79.64	80.58
MAX	79.16	80.54	---	---	83.38	84.07	84.67	85.23	85.45	82.24	80.07	81.46
MIN	78.50	78.19	---	---	82.71	83.43	83.59	83.87	82.24	79.12	79.30	79.01

SIOUX COUNTY

420757104024701 Local number 25N 58W 13CDBC1 Sheep Creek 6A

LOCATION—Lat 42º07'56.04", long 104º02'48.45", SW ¼ SE ¼ NW ¼ SW ¼, Hydrologic Unit 10180009.

AQUIFER—Sand and gravel deposits, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS—Drilled observation water-table well, diameter 2.5 in., depth 30 ft, casing perforated 10 to 30 ft.

DATUM—Altitude of land-surface datum is 4,208.37 ft. Measuring point: 2.38 ft above land-surface datum.

PERIOD OF RECORD—October 1997 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 3.72 ft below land-surface datum, Oct. 7, 1997; lowest, 30.38 ft below land-surface datum, Apr. 6, 2004.

STATION NUMBER 420757104024701

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.81	15.33	---	22.73	25.61	27.86	29.67	---	25.61	15.54	10.61	10.56
2	9.98	15.48	---	22.85	25.69	27.92	29.75	---	24.52	15.50	10.54	11.08
3	10.15	15.62	---	22.95	25.74	27.98	29.79	---	23.54	15.15	10.51	11.43
4	10.31	15.81	19.84	23.06	25.84	28.04	29.84	---	22.65	14.84	10.51	11.16
5	10.49	15.95	19.92	23.15	25.95	28.11	29.92	---	21.83	14.47	10.47	11.34
6	10.66	16.10	20.01	23.22	26.02	28.24	29.96	---	21.07	14.10	10.40	11.50
7	10.83	16.24	20.14	23.30	26.06	28.31	---	---	20.36	13.72	10.38	11.65
8	11.01	16.38	20.29	23.44	26.16	28.41	---	---	19.81	13.45	10.39	11.84
9	11.16	16.49	20.39	23.53	26.25	28.41	---	---	19.35	13.14	10.34	12.01
10	11.40	16.65	20.47	23.60	26.31	28.54	---	---	18.91	12.86	10.22	12.21
11	11.56	16.82	20.61	23.71	26.41	28.58	---	---	18.52	12.56	10.10	12.38
12	11.75	16.97	20.70	23.80	26.47	28.61	---	---	18.11	12.29	9.99	12.57
13	11.95	17.05	20.79	23.89	26.54	28.73	---	---	17.77	12.05	9.97	12.77
14	12.10	17.21	20.86	23.96	26.62	28.77	---	---	17.47	11.91	9.95	12.98
15	12.29	17.35	21.05	24.01	26.70	28.84	---	---	17.18	11.62	9.95	13.22
16	12.51	17.42	21.14	24.16	26.79	28.90	---	---	16.87	11.50	9.97	13.41
17	12.71	17.64	21.27	24.25	26.86	28.99	---	---	16.50	11.40	9.95	13.60
18	12.89	17.77	21.36	24.32	26.93	29.03	---	---	16.09	11.31	9.85	13.79
19	13.07	17.87	21.42	24.41	27.03	29.13	---	---	15.61	11.25	9.78	13.99
20	13.26	18.06	21.52	24.54	27.09	29.19	---	---	15.23	11.18	9.72	14.26
21	13.45	18.19	21.66	24.63	27.17	29.24	---	---	14.86	11.15	9.73	14.46
22	13.62	18.36	22.19	24.69	27.25	29.28	---	---	14.50	11.07	9.74	14.66
23	13.83	18.50	22.28	24.80	27.33	29.34	---	---	14.21	10.98	9.79	14.89
24	14.04	18.59	21.91	24.86	27.38	29.43	---	---	14.05	10.89	9.79	15.09
25	14.20	18.71	22.05	24.98	27.47	29.51	---	---	14.14	10.86	9.68	15.28
26	14.36	18.91	22.12	25.09	27.54	29.50	---	---	14.34	10.84	9.64	15.48
27	14.53	19.05	22.25	25.19	27.62	29.50	---	---	14.60	10.82	9.72	15.70
28	14.58	19.10	22.37	25.23	27.68	29.55	---	---	14.84	10.81	9.82	15.86
29	14.86	19.25	22.43	25.33	27.75	29.54	---	---	15.15	10.77	10.01	16.04
30	15.03	---	22.56	25.40	---	29.54	---	28.68	15.48	11.14	10.18	16.24
31	15.17	---	22.65	25.50	---	29.59	---	26.97	---	10.66	10.38	---
MEAN	12.50	---	---	24.15	26.70	28.86	---	---	17.77	12.25	10.07	13.38
MAX	15.17	---	---	25.50	27.75	29.59	---	---	25.61	15.54	10.61	16.24
MIN	9.81	---	---	22.73	25.61	27.86	---	---	14.05	10.66	9.64	10.56

VALLEY COUNTY

413156098591201 Local number 18N 15W 13ACD1 Ord

LOCATION—Lat 41º31'56", long 98º59'12", SE ¼ SW ¼ NE ¼ sec. 13, T.18N., R.15W., Hydrologic Unit 10210007, 6 mi south of the intersection of Highways 11 and 70 at the west edge of Ord, then ¼ mi west in farmer's field.

AQUIFER—Ogallala Formation of Tertiary age.

WELL CHARACTERISTICS—Drilled irrigation well unused, diameter 18 in., depth 340 ft, perforated below water table.

DATUM—Altitude of land-surface datum is 2,160 ft. Measuring point: Top of casing 0.00 ft above land-surface datum.

PERIOD OF RECORD—May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD—Highest water level, 40.96 ft below land-surface datum, May 4, 1972; lowest, 116.79 ft below land-surface datum, July 22, 1985.

STATION NUMBER 413156098591201 18N 15W13ACD 1

Depth to water level, feet below land surface
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42.95	41.90	41.77	---	41.78	41.54	41.52	41.61	41.38	42.83	---	50.66
2	42.83	41.82	41.71	---	41.84	41.62	41.58	41.61	41.47	43.71	---	50.04
3	42.65	41.78	41.61	---	41.71	41.62	41.63	41.59	41.50	44.68	---	50.81
4	42.57	41.74	41.66	---	41.66	41.57	41.60	41.51	41.45	46.01	---	51.60
5	42.49	41.80	41.69	---	41.61	41.48	41.49	41.47	41.40	46.46	---	52.01
6	42.43	41.80	41.66	---	41.63	41.57	41.50	41.50	41.39	46.41	52.78	52.15
7	42.37	41.82	41.50	---	41.65	41.63	41.50	41.52	41.37	45.84	52.87	52.05
8	42.28	41.82	41.52	---	41.62	41.63	41.52	41.46	41.43	45.24	53.34	52.10
9	42.24	41.81	41.57	---	41.64	41.64	41.53	41.44	41.46	44.79	53.52	52.59
10	42.19	41.68	41.57	---	41.65	41.59	41.59	41.49	41.43	44.35	53.28	52.94
11	42.16	41.61	41.58	---	41.69	41.61	41.56	41.47	41.40	44.09	53.37	52.92
12	42.16	---	41.58	---	41.70	41.60	41.58	41.55	41.44	44.22	54.15	52.79
13	42.07	---	41.56	---	41.63	41.57	41.57	41.63	41.44	44.98	54.44	52.50
14	42.07	---	41.51	---	41.65	41.59	41.52	41.65	41.49	46.52	54.55	52.08
15	42.05	---	41.53	---	41.66	41.55	41.45	41.63	41.50	47.52	54.96	50.95
16	42.07	---	41.61	41.53	41.69	41.54	41.51	41.59	41.55	48.09	55.05	49.97
17	42.07	---	41.62	41.60	41.69	41.46	41.51	41.56	41.59	48.79	54.85	49.02
18	41.99	---	41.66	41.64	41.63	41.53	41.49	41.59	41.65	49.42	54.78	48.14
19	41.97	---	41.66	41.64	41.51	41.51	41.61	41.54	41.66	49.83	54.63	47.32
20	41.96	---	41.61	41.62	41.61	41.69	41.53	41.55	41.60	49.67	54.80	46.61
21	41.96	41.63	41.55	41.64	41.62	41.70	41.48	41.51	41.49	48.90	55.02	45.99
22	41.93	41.60	41.60	41.65	41.62	41.62	41.56	41.38	41.50	49.26	55.16	45.53
23	41.88	41.64	41.60	41.58	41.66	41.49	41.61	41.39	41.48	49.24	55.06	44.91
24	41.92	41.64	41.59	41.57	41.67	41.42	41.60	41.43	41.54	49.71	54.73	44.54
25	41.99	41.51	41.52	41.48	41.66	41.48	41.57	41.46	41.55	49.67	54.47	44.24
26	41.99	41.58	41.50	41.59	41.63	41.50	41.61	41.43	41.52	48.82	53.91	43.92
27	41.86	41.69	41.40	41.62	41.58	41.44	41.60	41.37	41.55	47.94	53.05	43.60
28	41.76	41.71	---	41.72	41.56	41.53	41.41	41.37	41.60	48.48	51.70	43.41
29	41.71	41.59	---	41.73	41.52	41.56	41.57	41.30	41.71	49.36	51.63	43.16
30	41.80	41.71	---	41.82	---	41.58	41.59	41.28	42.10	50.64	51.41	42.88
31	41.91	---	---	41.61	---	41.56	---	41.31	---	51.35	51.12	---
MEAN	42.14	---	---	---	41.65	41.56	41.55	41.49	41.52	47.32	---	48.71
MAX	42.95	---	---	---	41.84	41.70	41.63	41.65	42.10	51.35	---	52.94
MIN	41.71	---	---	---	41.51	41.42	41.41	41.28	41.37	42.83	---	42.88

WATER-QUALITY DATA

BY STUDY

COUNTIES.--Cherry and Keya Paha

MISCELLANEOUS STATION ANALYSES

Date	Time	Altitude of land surface feet (72000)	Drainage area, mi2 (81024)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
06460800 NIOBRARA RIVER AT BORMAN BRIDGE NR VALENTINE, NE (LAT 42 51 08N LONG 100 31 16W)													
MAY 2004													
04...	1500	--	--	713	7.7	90	8.1	206	24.0	20.0	82	27.0	3.60
JUN													
02...	1330	--	--	--	9.2	--	7.8	203	18.0	17.6	86	28.4	3.60
JUL													
08...	0800	--	--	692	7.2	88	8.3	208	19.0	20.0	84	27.9	3.46
AUG													
04...	0900	--	--	702	7.4	92	8.3	211	21.0	21.5	81	27.0	3.40
SEP													
09...	0800	--	--	698	7.7	89	7.8	214	17.0	18.0	80	26.1	3.49
06461010 Minnechaduza Cr above Spring Cr (LAT 42 53 41N LONG 100 30 54W)													
MAY 2004													
05...	1200	2,418	--	712	7.2	83	8.8	294	27.0	18.5	130	43.0	5.18
JUN													
03...	0910	2,418	--	--	9.1	--	8.2	325	14.0	15.8	150	50.9	5.61
JUL													
07...	1430	2,418	--	700	8.2	104	8.4	300	23.0	22.5	130	43.9	4.82
AUG													
03...	1400	2,418	--	702	8.5	115	8.6	305	29.0	26.5	120	41.4	4.71
SEP													
08...	1410	2,418	--	700	9.3	116	8.5	296	24.0	22.0	130	42.2	5.10
06461500 NIOBRARA RIVER NEAR SPARKS, NEBR. (LAT 42 54 07N LONG 100 21 44W)													
MAY 2004													
05...	1030	2,288	7,150	712	--	--	8.3	210	25.0	16.0	87	28.7	3.77
JUN													
03...	0730	2,288	7,150	--	8.9	--	8.1	209	12.5	14.0	89	29.7	3.66
JUL													
07...	1200	2,288	7,150	700	9.4	110	8.5	216	21.0	19.0	88	29.4	3.59
AUG													
03...	1200	2,288	7,150	702	8.8	117	8.4	212	28.0	25.5	84	28.0	3.44
SEP													
08...	1240	2,288	7,150	704	10.5	124	8.5	210	22.0	19.5	85	27.8	3.66
06462000 NIOBRARA RIVER NR NORDEN NEBR (LAT 42 47 13N LONG 100 02 06W)													
MAY 2004													
05...	0900	2,109	8,390	712	7.9	87	8.5	215	20.0	17.0	89	29.4	3.73
JUN													
02...	1100	2,109	8,390	--	9.3	--	8.1	220	18.0	17.5	95	31.7	3.83
JUL													
07...	0930	2,109	8,390	700	8.9	102	8.3	218	17.0	18.0	90	30.1	3.61
AUG													
03...	1000	2,109	8,390	707	7.8	103	8.5	215	26.5	25.5	84	28.1	3.35
SEP													
08...	1030	2,109	8,390	708	9.8	112	8.1	215	--	18.0	85	28.1	3.62

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)
06460800 NIOBRARA RIVER AT BORMAN BRIDGE NR VALENTINE, NE (LAT 42 51 08N LONG 100 31 16W)													
MAY 2004													
04...	6.74	.4	8.56	17	1.19	.3	54.8	5.6	168	.17	.37	<.04	--
JUN													
02...	5.89	.4	7.99	16	1.15	.3	51.5	4.9	167	.12	.45	<.04	--
JUL													
08...	5.99	.4	8.10	16	1.26	.3	55.5	5.4	171	.11	.25	<.04	--
AUG													
04...	6.52	.4	7.89	16	1.26	.4	56.2	5.2	173	.11	.26	<.04	--
SEP													
09...	5.71	.4	7.42	16	1.13	.3	56.7	4.3	177	.15	.28	<.04	--
06461010 Minnechaduza Cr above Spring Cr (LAT 42 53 41N LONG 100 30 54W)													
MAY 2004													
05...	7.48	.4	11.6	15	3.04	.4	41.6	6.1	217	.37	.48	<.04	2.24
JUN													
03...	9.45	.4	12.5	14	2.19	.5	43.9	4.7	222	.60	.79	E.02n	1.72
JUL													
07...	7.15	.4	10.5	14	3.08	.4	44.3	6.2	223	.34	.43	<.04	3.28
AUG													
03...	7.77	.4	10.7	15	4.28	.4	43.7	6.5	215	.33	.45	<.04	4.25
SEP													
08...	7.44	.4	9.73	13	2.77	.4	46.0	5.3	217	.47	.64	<.04	3.04
06461500 NIOBRARA RIVER NEAR SPARKS, NEBR. (LAT 42 54 07N LONG 100 21 44W)													
MAY 2004													
05...	6.68	.4	8.96	17	1.36	.4	54.7	5.6	173	.14	.43	<.04	.930
JUN													
03...	5.83	.4	8.14	15	1.30	.4	51.0	4.8	171	.16	.39	<.04	--
JUL													
07...	5.97	.4	8.32	16	1.32	.3	54.5	5.7	177	.13	.28	<.04	--
AUG													
03...	6.76	.4	8.09	16	1.30	.4	55.4	5.1	168	.12	.37	<.04	--
SEP													
08...	5.74	.4	7.67	15	1.13	.3	55.2	4.2	176	.15	.26	<.04	--
06462000 NIOBRARA RIVER NR NORDEN NEBR (LAT 42 47 13N LONG 100 02 06W)													
MAY 2004													
05...	6.90	.4	8.83	16	1.28	.4	54.6	5.7	172	.16	.46	<.04	--
JUN													
02...	6.02	.4	8.40	15	1.29	.4	52.5	4.9	177	.15	.41	<.04	--
JUL													
07...	5.90	.4	8.10	15	1.28	.3	54.3	5.5	172	.10	.24	<.04	--
AUG													
03...	6.67	.4	7.85	16	1.27	.4	55.4	5.1	176	.15	.31	<.04	--
SEP													
08...	5.67	.4	7.44	15	1.15	.3	54.8	4.2	178	.13	.35	<.04	--

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)	Total nitro-gen, water, fltrd, mg/L (00602)	Total nitro-gen, water, unfltrd mg/L (00600)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)
06460800 NIOBRARA RIVER AT BORMAN BRIDGE NR VALENTINE, NE (LAT 42 51 08N LONG 100 31 16W)													
MAY 2004													
04...	--	.33	--	<.008	.184	.06	.108	.145	.49	.70	E3k	5.9	<6
JUN													
02...	--	.30	--	<.008	.163	.05	.057	.106	.43	.75	--	5.9	<6
JUL													
08...	--	.40	--	E.004n	.199	.07	.069	.115	.51	.65	53	6.1	<6
AUG													
04...	--	.38	--	E.004n	.254	.08	.071	.120	.49	.64	52	6.4	<6
SEP													
09...	--	.36	--	<.008	.147	.05	.054	.104	.52	.65	--	6.0	<6
06461010 Minnechaduza Cr above Spring Cr (LAT 42 53 41N LONG 100 30 54W)													
MAY 2004													
05...	.51	.52	.030	.009	.218	.07	.080	.138	.89	.99	E13k	5.6	E5n
JUN													
03...	.39	.40	.033	.010	.242	.08	.095	.118	1.0	1.2	58	6.8	E6n
JUL													
07...	.74	.76	.049	.015	.368	.12	.142	.161	1.1	1.2	41	5.9	<6
AUG													
03...	.96	.98	.069	.021	.604	.20	.22oc	.23oc	1.3	1.4	55	5.7	<6
SEP													
08...	.69	.69	.026	.008	.184	.06	.102	.147	1.2	1.3	100k	5.2	<6
06461500 NIOBRARA RIVER NEAR SPARKS, NEBR. (LAT 42 54 07N LONG 100 21 44W)													
MAY 2004													
05...	.21	.22	.043	.013	.101	.03	.065	.173	.36	.65	E11k	--	E4n
JUN													
03...	--	.31	--	<.008	.147	.05	.057	.098	.46	.70	--	--	<6
JUL													
07...	--	.33	--	E.004n	.181	.06	.066	.107	.46	.62	--	--	<6
AUG													
03...	--	.29	--	<.008	.169	.06	.057	.121	.41	.66	40	--	<6
SEP													
08...	--	.33	--	<.008	.138	.04	.020	.097	.48	.59	E14k	--	<6
06462000 NIOBRARA RIVER NR NORDEN NEBR (LAT 42 47 13N LONG 100 02 06W)													
MAY 2004													
05...	--	.33	--	E.004n	.178	.06	<.004	.188	.49	.80	E15k	--	E4n
JUN													
02...	--	.31	--	<.008	.141	.05	.058	.098	.45	.72	--	--	<6
JUL													
07...	--	.33	--	<.008	.181	.06	.064	.153	.43	.57	34	--	<6
AUG													
03...	--	.25	--	<.008	.132	.04	.050	.158	.41	.56	40	--	<6
SEP													
08...	--	.33	--	<.008	.141	.05	.050	.189	.46	.68	45	--	<6

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)	1,4-Di-chloro-benzene water, fltrd, ug/L (34572)	1-Methyl-naphth-alene, water, fltrd, ug/L (62054)	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	2,6-Di-methyl-naphth-alene, water, fltrd, ug/L (62055)	2Chloro-2,6'-' diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl-6-methyl-aniline water, fltrd, ug/L (61620)	2-Methyl-naphth-alene, water, fltrd, ug/L (62056)	3,4-Di-chloro-aniline water fltrd, ug/L (61625)	3-beta-Copros-tanol, water, fltrd, ug/L (62057)
06460800 NIOBRARA RIVER AT BORMAN BRIDGE NR VALENTINE, NE (LAT 42 51 08N LONG 100 31 16W)													
MAY 2004													
04...	<.08	1.5	<.5	<.5	--	--	<.5	--	--	--	M	--	<2
JUN													
02...	<.08	1.9	<.5	<.5	--	--	<.5	--	--	--	<.5	--	<2
JUL													
08...	<.08	.8	E.1t	<.5	--	--	Mt	--	--	--	<.5	--	<2
AUG													
04...	<.08	E.5n	<.5	<.5	--	--	<.5	--	--	--	<.5	--	<2
SEP													
09...	E.07n	E.7n	Mt	<.5	--	--	<.5	--	--	--	<.5	--	<2
06461010 Minnechaduza Cr above Spring Cr (LAT 42 53 41N LONG 100 30 54W)													
MAY 2004													
05...	E.06n	9.8	M	<.5	--	--	<.5	--	--	--	M	--	<2
JUN													
03...	.19	10.8	<.5	<.5	--	--	<.5	--	--	--	<.5	--	<2
JUL													
07...	E.05n	9.3	<.5	<.5	--	--	<.5	--	--	--	<.5	--	Mt
AUG													
03...	E.06n	7.8	<.5	<.5	--	--	<.5	--	--	--	<.5	--	<2
SEP													
08...	.12	7.8	Mt	<.5	--	--	<.5	--	--	--	<.5	--	<2
06461500 NIOBRARA RIVER NEAR SPARKS, NEBR. (LAT 42 54 07N LONG 100 21 44W)													
MAY 2004													
05...	--	E.7n	<.5	<.5	--	--	<.5	--	--	--	M	--	<2
JUN													
03...	--	<.8	<.5	<.5	--	--	<.5	--	--	--	<.5	--	<2
JUL													
07...	--	1.4	<.5	<.5	--	--	<.5	--	--	--	<.5	--	<2
AUG													
03...	--	.9	E.1t	<.5	--	--	<.5	--	--	--	E.1t	--	<2
SEP													
08...	--	1.0	Mt	<.5	--	--	<.5	--	--	--	<.5	--	<2
06462000 NIOBRARA RIVER NR NORDEN NEBR (LAT 42 47 13N LONG 100 02 06W)													
MAY 2004													
05...	--	1.4	E.1	<.5	<.09	<.006	<.5	<.005	<.006	<.004	M	<.004	<2
JUN													
02...	--	1.9	<.5	<.5	--u	<.006	<.5	<.005	<.006	<.004	<.5	<.004	<2
JUL													
07...	--	1.4	<.5	<.5	<.09	<.006	<.5	<.005	E.003n	<.004	<.5	<.004	<2
AUG													
03...	--	E.5n	<.5	<.5	<.09	<.006	<.5	<.005	<.006	<.004	<.5	<.004	<2
SEP													
08...	--	1.7	<.5	<.5	<.09	<.006	<.5	<.005	<.006	<.004	<.5	<.004	<2

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	3-Methyl-1H-indole, water, fltrd, ug/L (62058)	3-tert-Butyl-4-hydroxyanisole wat flt ug/L (62059)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	4-Cumylphenol, water, fltrd, ug/L (62060)	4-Octylphenol, water, fltrd, ug/L (62061)	4-Nonylphenol, water, fltrd, ug/L (62085)	4-tert-Octylphenol, water, fltrd, ug/L (62062)	5-Methyl-1H-benzotriazole, wat flt ug/L (62063)	9,10-Anthraquinone water, fltrd, ug/L (62066)	Acetochlor, water, fltrd, ug/L (49260)	Acetophenone water, fltrd, ug/L (62064)	AHTN, water, fltrd, ug/L (62065)	Alachlor, water, fltrd, ug/L (46342)
06460800 NIOBRARA RIVER AT BORMAN BRIDGE NR VALENTINE, NE (LAT 42 51 08N LONG 100 31 16W)													
MAY 2004													
04...	<1	<5	--	<1	<1	Mv	<1	<2	<.5	--	<.5	<.5	--
JUN													
02...	<1	<5	--	<1	<1	<5	<1	<2	<.5	--	<.5	<.5	--
JUL													
08...	<1	<5	--	<1	<1	<5	<1	<2	<.5	--	<.5	<.5	--
AUG													
04...	<1	<5	--	<1	<1	<5	<1	<2	<.5	--	<.5	<.5	--
SEP													
09...	<1	<5	--	<1	<1	Mtv	<1	<2	<.5	--	<.5	<.5	--
06461010 Minnechaduza Cr above Spring Cr (LAT 42 53 41N LONG 100 30 54W)													
MAY 2004													
05...	<1	<5	--	<1	<1	<5	<1	<2	<.5	--	<.5	M	--
JUN													
03...	<1	<5	--	<1	<1	<5	<1	<2	<.5	--	<.5	<.5	--
JUL													
07...	<1	<5	--	<1	<1	<5	<1	<2	<.5	--	<.5	<.5	--
AUG													
03...	<1	<5	--	<1	<1	<5	<1	<2	<.5	--	<.5	<.5	--
SEP													
08...	<1	<5	--	<1	<1	Mtv	<1	<2	<.5	--	<.5	Mt	--
06461500 NIOBRARA RIVER NEAR SPARKS, NEBR. (LAT 42 54 07N LONG 100 21 44W)													
MAY 2004													
05...	<1	<5	--	<1	<1	E1v	<1	<2	<.5	--	<.5	<.5	--
JUN													
03...	<1	<5	--	<1	<1	<5	<1	<2	<.5	--	<.5	<.5	--
JUL													
07...	<1	<5	--	<1	<1	<5	<1	<2	<.5	--	<.5	<.5	--
AUG													
03...	<1	<5	--	<1	<1	<5	<1	<2	<.5	--	<.5	<.5	--
SEP													
08...	<1	<5	--	<1	<1	Mtv	<1	<2	<.5	--	<.5	<.5	--
06462000 NIOBRARA RIVER NR NORDEN NEBR (LAT 42 47 13N LONG 100 02 06W)													
MAY 2004													
05...	<1	<5	<.006	<1	<1	<5	<1	<2	<.5	<.006	<.5	<.5	<.005
JUN													
02...	<1	<5	--u	<1	<1	<5	<1	<2	<.5	<.006	<.5	<.5	<.005
JUL													
07...	<1	<5	<.006	<1	<1	Mtv	<1	<2	<.5	<.006	<.5	<.5	<.005
AUG													
03...	<1	<5	<.006	<1	<1	<5	<1	<2	<.5	<.006	<.5	<.5	<.005
SEP													
08...	<1	<5	<.006	<1	<1	Mtv	<1	<2	<.5	<.006	<.5	<.5	<.005

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Anthracene, water, fltrd, ug/L (34221)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl oxon, water, fltrd, ug/L (61635)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Benzo[a]pyrene, water, fltrd, ug/L (34248)	Benzophenone water, fltrd, ug/L (62067)	beta-Sitosterol, water, fltrd, ug/L (62068)	beta-Stigmastanol, water, fltrd, ug/L (62086)	Bisphenol A, water, fltrd, ug/L (62069)	Bromacil, water, fltrd, ug/L (04029)	Caffeine, water, fltrd, ug/L (50305)	Camphor water, fltrd, ug/L (62070)
06460800 NIOBRARA RIVER AT BORMAN BRIDGE NR VALENTINE, NE (LAT 42 51 08N LONG 100 31 16W)													
MAY 2004													
04...	<.5	--	--	--	--	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
JUN													
02...	<.5	--	--	--	--	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
JUL													
08...	<.5	--	--	--	--	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
AUG													
04...	<.5	--	--	--	--	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
SEP													
09...	<.5	--	--	--	--	<.5	E.1tv	<2	<2	<1	<.5	<.5	<.5
06461010 Minnechaduza Cr above Spring Cr (LAT 42 53 41N LONG 100 30 54W)													
MAY 2004													
05...	<.5	--	--	--	--	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
JUN													
03...	<.5	--	--	--	--	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
JUL													
07...	<.5	--	--	--	--	<.5	<.5	<2	Mt	<1	<.5	<.5	<.5
AUG													
03...	<.5	--	--	--	--	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
SEP													
08...	<.5	--	--	--	--	<.5	E.1tv	<2	<2	<1	<.5	<.5	<.5
06461500 NIOBRARA RIVER NEAR SPARKS, NEBR. (LAT 42 54 07N LONG 100 21 44W)													
MAY 2004													
05...	<.5	--	--	--	--	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
JUN													
03...	<.5	--	--	--	--	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
JUL													
07...	<.5	--	--	--	--	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
AUG													
03...	<.5	--	--	--	--	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
SEP													
08...	<.5	--	--	--	--	<.5	E.1tv	<2	<2	<1	<.5	<.5	<.5
06462000 NIOBRARA RIVER NR NORDEN NEBR (LAT 42 47 13N LONG 100 02 06W)													
MAY 2004													
05...	<.5	E.004t	<.02	<.050	<.010	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
JUN													
02...	<.5	E.005n	--u	<.050	<.010	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
JUL													
07...	<.5	E.004n	<.07	<.050	<.010	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
AUG													
03...	<.5	<.007	<.07	<.050	<.010	<.5	<.5	<2	<2	<1	<.5	<.5	<.5
SEP													
08...	<.5	.012	<.07	<.050	<.010	<.5	<.5	<2	<2	<1	<.5	<.5	<.5

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbazole, water, fltrd, ug/L (62071)	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)	Cholesterol, water, fltrd, ug/L (62072)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cotinine, water, fltrd, ug/L (62005)	Cyfluthrin, water, fltrd, ug/L (61585)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	DEET, water, fltrd, ug/L (62082)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon oxon, water, fltrd, ug/L (61638)
06460800 NIOBRARA RIVER AT BORMAN BRIDGE NR VALENTINE, NE (LAT 42 51 08N LONG 100 31 16W)													
MAY 2004													
04...	<1	<.5	--	<.5	<2	--	<1.00	--	--	--	<.5	--	--
JUN													
02...	<1	<.5	--	<.5	<2	--	<1.00	--	--	--	<.5	--	--
JUL													
08...	<1	<.5	--	<.5	<2	--	<1.00	--	--	--	E.1tv	--	--
AUG													
04...	<1	<.5	--	<.5	<2	--	<1.00	--	--	--	.7v	--	--
SEP													
09...	<1	<.5	--	<.5	<2	--	<1.00	--	--	--	1.0	--	--
06461010 Minnechaduza Cr above Spring Cr (LAT 42 53 41N LONG 100 30 54W)													
MAY 2004													
05...	<1	<.5	--	<.5	<2	--	<1.00	--	--	--	<.5	--	--
JUN													
03...	<1	<.5	--	<.5	<2	--	<1.00	--	--	--	<.5	--	--
JUL													
07...	<1	<.5	--	<.5	Mt	--	<1.00	--	--	--	<.5	--	--
AUG													
03...	<1	<.5	--	<.5	<2	--	<1.00	--	--	--	1.2	--	--
SEP													
08...	<1	<.5	--	<.5	Mt	--	<1.00	--	--	--	1.3	--	--
06461500 NIOBRARA RIVER NEAR SPARKS, NEBR. (LAT 42 54 07N LONG 100 21 44W)													
MAY 2004													
05...	<1	<.5	--	<.5	<2	--	<1.00	--	--	--	E.1v	--	--
JUN													
03...	<1	<.5	--	<.5	<2	--	<1.00	--	--	--	<.5	--	--
JUL													
07...	<1	<.5	--	<.5	<2	--	<1.00	--	--	--	E.1tv	--	--
AUG													
03...	<1	<.5	--	<.5	<2	--	<1.00	--	--	--	4.2	--	--
SEP													
08...	<1	<.5	--	<.5	<2	--	<1.00	--	--	--	6.2	--	--
06462000 NIOBRARA RIVER NR NORDEN NEBR (LAT 42 47 13N LONG 100 02 06W)													
MAY 2004													
05...	<.041	<.5	<.06	<.005	<2	<.006	<1.00	<.008	<.009	<.003	E.1v	<.012	<.01
JUN													
02...	<.041	<.5	<.06	<.005	<2	<.006	<1.00	<.008	<.009	<.003	<.5	<.012	<.01
JUL													
07...	<.041	<.5	<.06	<.005	<2	<.006	<1.00	<.008	<.009	<.003	<.5	<.012	<.01
AUG													
03...	<.041	<.5	<.06	<.005	<2	<.006	<1.00	<.008	<.009	<.003	1.0	<.012	<.01
SEP													
08...	<.041	<.5	<.06	<.005	<2	<.006	<1.00	<.008	<.009	<.003	<.5	<.012	<.01

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Diethoxynonylphenol, water, fltrd, ug/L (62083)	Diethoxyoctylphenol, water, fltrd ug/L (61705)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	D-Limonene, water, fltrd, ug/L (62073)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Ethoxyoctylphenol, water, fltrd ug/L (61706)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)
06460800 NIOBRARA RIVER AT BORMAN BRIDGE NR VALENTINE, NE (LAT 42 51 08N LONG 100 31 16W)													
MAY 2004													
04...	<.5	--	--	<5	<1	--	<.5	--	--	<1	--	--	--
JUN													
02...	<.5	--	--	<5	<1	--	<.5	--	--	<1	--	--	--
JUL													
08...	<.5	--	--	<5	<1	--	<.5	--	--	<1	--	--	--
AUG													
04...	<.5	--	--	<5	<1	--	<.5	--	--	<1	--	--	--
SEP													
09...	<.5	--	--	<5	<1	--	<.5	--	--	<1	--	--	--
06461010 Minnechaduza Cr above Spring Cr (LAT 42 53 41N LONG 100 30 54W)													
MAY 2004													
05...	<.5	--	--	<5	<1	--	<.5	--	--	<1	--	--	--
JUN													
03...	<.5	--	--	<5	<1	--	<.5	--	--	<1	--	--	--
JUL													
07...	<.5	--	--	<5	<1	--	<.5	--	--	<1	--	--	--
AUG													
03...	<.5	--	--	<5	<1	--	<.5	--	--	<1	--	--	--
SEP													
08...	<.5	--	--	<5	<1	--	<.5	--	--	<1	--	--	--
06461500 NIOBRARA RIVER NEAR SPARKS, NEBR. (LAT 42 54 07N LONG 100 21 44W)													
MAY 2004													
05...	<.5	--	--	<5	<1	--	<.5	--	--	<1	--	--	--
JUN													
03...	<.5	--	--	<5	<1	--	<.5	--	--	<1	--	--	--
JUL													
07...	<.5	--	--	<5	<1	--	<.5	--	--	<1	--	--	--
AUG													
03...	<.5	--	--	<5	<1	--	<.5	--	--	<1	--	--	--
SEP													
08...	<.5	--	--	<5	<1	--	Mt	--	--	<1	--	--	--
06462000 NIOBRARA RIVER NR NORDEN NEBR (LAT 42 47 13N LONG 100 02 06W)													
MAY 2004													
05...	<.005	<.08	<.009	<5	<1	<.006	<.5	<.03	<.004	<1	<.008	<.03	<.03
JUN													
02...	<.005	<.08	<.009	<5	<1	<.006	<.5	<.03	<.004	<1	<.008	<.03	<.03
JUL													
07...	<.005	<.08	<.009	<5	<1	<.006	<.5	<.0020	<.004	<1	<.049	<.04	<.03
AUG													
03...	<.005	<.08	<.009	<5	<1	<.006	<.5	<.0020	<.004	<1	<.049	<.04	<.03
SEP													
08...	<.015c	<.08	<.009	<5	<1	<.006	Mt	<.0020	<.004	<1	<.049	<.04	<.03

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169)	Fipro-nil sulfide water, fltrd, ug/L (62167)	Fipro-nil sulfone water, fltrd, ug/L (62168)	Fipro-nil, water, fltrd, ug/L (62166)	Fluor-anthene water, fltrd, ug/L (34377)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	HHCB, water, fltrd, ug/L (62075)	Hexa-zinone, water, fltrd, ug/L (04025)	Indole, water, fltrd, ug/L (62076)	Ipro-dione, water, fltrd, ug/L (61593)	Isobor-neol, water, fltrd, ug/L (62077)	Isofen-phos, water, fltrd, ug/L (61594)
06460800 NIOBRARA RIVER AT BORMAN BRIDGE NR VALENTINE, NE (LAT 42 51 08N LONG 100 31 16W)													
MAY 2004													
04...	--	--	--	--	<.5	--	--	<.5	--	<.5	--	<.5	--
JUN													
02...	--	--	--	--	<.5	--	--	<.5	--	<.5	--	<.5	--
JUL													
08...	--	--	--	--	<.5	--	--	<.5	--	<.5	--	<.5	--
AUG													
04...	--	--	--	--	<.5	--	--	<.5	--	<.5	--	<.5	--
SEP													
09...	--	--	--	--	<.5	--	--	<.5	--	<.5	--	<.5	--
06461010 Minnechaduza Cr above Spring Cr (LAT 42 53 41N LONG 100 30 54W)													
MAY 2004													
05...	--	--	--	--	<.5	--	--	<.5	--	<.5	--	<.5	--
JUN													
03...	--	--	--	--	<.5	--	--	<.5	--	<.5	--	<.5	--
JUL													
07...	--	--	--	--	<.5	--	--	<.5	--	<.5	--	<.5	--
AUG													
03...	--	--	--	--	<.5	--	--	<.5	--	<.5	--	<.5	--
SEP													
08...	--	--	--	--	<.5	--	--	Mt	--	<.5	--	<.5	--
06461500 NIOBRARA RIVER NEAR SPARKS, NEBR. (LAT 42 54 07N LONG 100 21 44W)													
MAY 2004													
05...	--	--	--	--	<.5	--	--	<.5	--	<.5	--	<.5	--
JUN													
03...	--	--	--	--	<.5	--	--	<.5	--	<.5	--	<.5	--
JUL													
07...	--	--	--	--	<.5	--	--	<.5	--	<.5	--	<.5	--
AUG													
03...	--	--	--	--	<.5	--	--	<.5	--	<.5	--	<.5	--
SEP													
08...	--	--	--	--	<.5	--	--	<.5	--	<.5	--	<.5	--
06462000 NIOBRARA RIVER NR NORDEN NEBR (LAT 42 47 13N LONG 100 02 06W)													
MAY 2004													
05...	<.029	<.013	<.024	<.016	<.5	<.002	<.003	<.5	<.013	<.5	<1	<.5	<.003
JUN													
02...	<.029	<.013	<.024	<.016	<.5	<.002	<.003	<.5	<.013	<.5	<1	<.5	<.003
JUL													
07...	<.029	<.013	<.024	<.016	<.5	<.003	<.003	<.5	<.013	<.5	<.387	<.5	<.003
AUG													
03...	<.029	<.013	<.024	<.016	<.5	<.003	<.003	<.5	<.013	<.5	<.387	<.5	<.003
SEP													
08...	<.029	<.013	<.024	<.016	<.5	<.003	<.003	<.5	<.013	<.5	<.387	<.5	<.003

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Isophorone water, fltrd, ug/L (34409)	Isopropylbenzene water, fltrd, ug/L (62078)	Isoquinoline, water, fltrd, ug/L (62079)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Menthol water, fltrd, ug/L (62080)	Metalaxyl, water, fltrd, ug/L (50359)	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Methyl salicylate, water, fltrd, ug/L (62081)	Metolachlor, water, fltrd, ug/L (39415)
06460800 NIOBRARA RIVER AT BORMAN BRIDGE NR VALENTINE, NE (LAT 42 51 08N LONG 100 31 16W)													
MAY 2004													
04...	<.5	<.5	<.5	--	--	<.5	<.5	--	--	--	--	<.5	<.5
JUN													
02...	<.5	<.5	<.5	--	--	<.5	<.5	--	--	--	--	<.5	<.5
JUL													
08...	<.5	<.5	<.5	--	--	<.5	<.5	--	--	--	--	<.5	<.5
AUG													
04...	<.5	<.5	<.5	--	--	<.5	<.5	--	--	--	--	<.5	<.5
SEP													
09...	Mt	<.5	<.5	--	--	<.5	<.5	--	--	--	--	Mtv	<.5
06461010 Minnechaduza Cr above Spring Cr (LAT 42 53 41N LONG 100 30 54W)													
MAY 2004													
05...	M	<.5	<.5	--	--	<.5	<.5	--	--	--	--	Mv	E.1
JUN													
03...	<.5	<.5	<.5	--	--	<.5	<.5	--	--	--	--	<.5	E.1
JUL													
07...	<.5	<.5	<.5	--	--	<.5	<.5	--	--	--	--	<.5	E.1t
AUG													
03...	<.5	<.5	<.5	--	--	<.5	<.5	--	--	--	--	<.5	<.5
SEP													
08...	Mt	<.5	<.5	--	--	<.5	<.5	--	--	--	--	Mtv	Mt
06461500 NIOBRARA RIVER NEAR SPARKS, NEBR. (LAT 42 54 07N LONG 100 21 44W)													
MAY 2004													
05...	<.5	<.5	<.5	--	--	<.5	<.5	--	--	--	--	Mv	<.5
JUN													
03...	<.5	<.5	<.5	--	--	<.5	<.5	--	--	--	--	<.5	<.5
JUL													
07...	<.5	<.5	<.5	--	--	<.5	<.5	--	--	--	--	<.5	<.5
AUG													
03...	<.5	<.5	<.5	--	--	<.5	<.5	--	--	--	--	E.1tv	<.5
SEP													
08...	Mt	<.5	<.5	--	--	<.5	<.5	--	--	--	--	Mtv	<.5
06462000 NIOBRARA RIVER NR NORDEN NEBR (LAT 42 47 13N LONG 100 02 06W)													
MAY 2004													
05...	<.5	<.5	<.5	<.008	<.027	<.5	<.5	<.005	<.006	<.03	<.015	Mv	E.004t
JUN													
02...	<.5	<.5	<.5	<.008	<.027	<.5	<.5	<.005	<.006	<.03	<.015	<.5	E.004t
JUL													
07...	<.5	<.5	<.5	<.030	<.027	<.5	<.5	<.005	<.006	<.03	<.015	<.5	<.013
AUG													
03...	<.5	<.5	<.5	<.030	<.027	<.5	<.5	<.005	<.006	<.03	<.015	<.5	<.013
SEP													
08...	Mt	<.5	<.5	<.030	<.027	<.5	<.5	<.005	<.006	<.03	<.015	<.5	<.013

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Metri-buzin, water, fltrd, ug/L (82630)	Myclo-butanil water, fltrd, ug/L (61599)	Naphth-alene, water, fltrd, ug/L (34443)	p-Cresol, water, fltrd, ug/L (62084)	Pendi-meth-alin, water, fltrd 0.7u GF ug/L (82683)	Penta-chloro-phenol, water, fltrd, ug/L (34459)	Phenan-threne, water, fltrd, ug/L (34462)	Phenol, water, fltrd, ug/L (34466)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prome-ton, water, fltrd, ug/L (04037)
06460800 NIOBRARA RIVER AT BORMAN BRIDGE NR VALENTINE, NE (LAT 42 51 08N LONG 100 31 16W)													
MAY 2004													
04...	--	--	M	Mv	--	<2	<.5	<.5	--	--	--	--	<.5
JUN													
02...	--	--	<.5	<1	--	<2	<.5	E.3v	--	--	--	--	<.5
JUL													
08...	--	--	<.5	<1	--	<2	E.1t	<.5	--	--	--	--	<.5
AUG													
04...	--	--	<.5	<1	--	<2	<.5	<.5	--	--	--	--	<.5
SEP													
09...	--	--	Mt	Mtv	--	<2	Mt	E.4tv	--	--	--	--	<.5
06461010 Minnechaduza Cr above Spring Cr (LAT 42 53 41N LONG 100 30 54W)													
MAY 2004													
05...	--	--	M	Mv	--	<2	M	.8v	--	--	--	--	<.5
JUN													
03...	--	--	<.5	Mv	--	<2	<.5	<.5	--	--	--	--	<.5
JUL													
07...	--	--	<.5	<1	--	<2	<.5	E.2tv	--	--	--	--	<.5
AUG													
03...	--	--	<.5	<1	--	<2	<.5	<.5	--	--	--	--	<.5
SEP													
08...	--	--	Mt	Mtv	--	<2	Mt	E.2tv	--	--	--	--	<.5
06461500 NIOBRARA RIVER NEAR SPARKS, NEBR. (LAT 42 54 07N LONG 100 21 44W)													
MAY 2004													
05...	--	--	M	Mv	--	<2	<.5	E.4v	--	--	--	--	<.5
JUN													
03...	--	--	<.5	<1	--	<2	<.5	<.5	--	--	--	--	<.5
JUL													
07...	--	--	<.5	<1	--	<2	<.5	E.1tv	--	--	--	--	<.5
AUG													
03...	--	--	E.1t	<1	--	<2	E.1t	<.5	--	--	--	--	<.5
SEP													
08...	--	--	Mt	Mtv	--	<2	Mt	.7v	--	--	--	--	<.5
06462000 NIOBRARA RIVER NR NORDEN NEBR (LAT 42 47 13N LONG 100 02 06W)													
MAY 2004													
05...	<.006	<.008	M	<1	<.022	<2	<.5	E.3v	<.10	<.011	--u	<.008	<.01
JUN													
02...	<.006	<.008	<.5	<1	<.022	<2	<.5	<.5	<.10	<.011	--u	<.008	<.01
JUL													
07...	<.006	<.008	<.5	<1	<.022	<2	<.5	<.5	<.10	<.011	<.05	<.008	<.01
AUG													
03...	<.006	<.008	<.5	<1	<.022	<2	<.5	<.5	<.10	<.011	<.05	<.008	<.08c
SEP													
08...	<.006	<.008	<.5	<1	<.022	<2	<.5	<.5	<.10	<.011	<.05	<.008	<.10c

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Pyrene, water, fltrd, ug/L (34470)	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)	Tetrachloroethene, water, fltrd, ug/L (34476)	Tribromomethane water, fltrd, ug/L (34288)	Tributyl phosphate, water, fltrd, ug/L (62089)	Triclosan, water, fltrd, ug/L (62090)	Triethyl citrate water, fltrd, ug/L (62091)
06460800 NIOBRARA RIVER AT BORMAN BRIDGE NR VALENTINE, NE (LAT 42 51 08N LONG 100 31 16W)													
MAY 2004													
04...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
JUN													
02...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
JUL													
08...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
AUG													
04...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
SEP													
09...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
06461010 Minnechaduza Cr above Spring Cr (LAT 42 53 41N LONG 100 30 54W)													
MAY 2004													
05...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
JUN													
03...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
JUL													
07...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
AUG													
03...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
SEP													
08...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
06461500 NIOBRARA RIVER NEAR SPARKS, NEBR. (LAT 42 54 07N LONG 100 21 44W)													
MAY 2004													
05...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
JUN													
03...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
JUL													
07...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
AUG													
03...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
SEP													
08...	--	--	<.5	--	--	--	--	--	<.5	<.5	<.5	<1	<.5
06462000 NIOBRARA RIVER NR NORDEN NEBR (LAT 42 47 13N LONG 100 02 06W)													
MAY 2004													
05...	<.005	<.004	<.5	<.005	<.02	<.07	<.02	<.01	<.5	<.5	<.5	<1	<.5
JUN													
02...	<.005	<.004	<.5	<.005	<.02	<.07	<.02	<.01	<.5	<.5	<.5	<1	<.5
JUL													
07...	<.005	<.004	<.5	<.005	<.02	<.07	<.02	<.01	<.5	<.5	<.5	<1	<.5
AUG													
03...	<.005	<.004	<.5	<.005	<.02	<.07	<.02	<.01	<.5	<.5	<.5	<1	<.5
SEP													
08...	<.005	<.004	<.5	<.005	<.02	<.07	<.02	<.01	<.5	<.5	<.5	<1	<.5

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Triphenyl phosphate, water, fltrd, ug/L (62092)	Tris(2-butoxyethyl) phosphate, wat flt ug/L (62093)	Tris(2-chloroethyl) phosphate, wat flt ug/L (62087)	Tris(dichloro-i-Pr) phosphate, wat flt ug/L (62088)	Dichlorvos, water fltrd, ug/L (38775)	Uranium natural water, fltrd, ug/L (22703)
06460800 NIOBRARA RIVER AT BORMAN BRIDGE NR VALENTINE, NE (LAT 42 51 08N LONG 100 31 16W)							
MAY 2004							
04...	--	<.5	<.5	<.5	<.5	<1.00	.99
JUN							
02...	--	<.5	<.5	<.5	<.5	<1.00	.82
JUL							
08...	--	<.5	<.5	<.5	<.5	<1.00	.97
AUG							
04...	--	<.5	<.5	<.5	<.5	--u	.86
SEP							
09...	--	<.5	<.5	<.5	<.5	--u	.83
06461010 Minnechaduza Cr above Spring Cr (LAT 42 53 41N LONG 100 30 54W)							
MAY 2004							
05...	--	<.5	<.5	E.1v	<.5	<1.00	1.61
JUN							
03...	--	<.5	<.5	<.5	<.5	<1.00	1.22
JUL							
07...	--	<.5	<.5	<.5	<.5	<1.00	1.38
AUG							
03...	--	<.5	<.5	<.5	<.5	--u	1.29
SEP							
08...	--	<.5	<.5	E.1tv	<.5	--u	1.32
06461500 NIOBRARA RIVER NEAR SPARKS, NEBR. (LAT 42 54 07N LONG 100 21 44W)							
MAY 2004							
05...	--	<.5	<.5	<.5	<.5	<1.00	--
JUN							
03...	--	<.5	<.5	<.5	<.5	<1.00	--
JUL							
07...	--	<.5	<.5	<.5	<.5	<1.00	--
AUG							
03...	--	<.5	<.5	<.5	<.5	--u	--
SEP							
08...	--	<.5	<.5	<.5	<.5	--u	--
06462000 NIOBRARA RIVER NR NORDEN NEBR (LAT 42 47 13N LONG 100 02 06W)							
MAY 2004							
05...	<.009	<.5	<.5	<.5	<.5	<.01	--
JUN							
02...	<.009	<.5	<.5	<.5	<.5	<.01	--
JUL							
07...	<.009	<.5	<.5	<.5	<.5	<.01	--
AUG							
03...	<.009	<.5	<.5	<.5	<.5	<.01	--
SEP							
08...	<.009	<.5	<.5	<.5	<.5	<.01	--

Remark codes used in this table:
- < -- Less than
- E -- Estimated value
- M -- Presence verified, not quantified

Value qualifier codes used in this table:
- c -- See laboratory comment
- k -- Counts outside acceptable range
- n -- Below the LRL and above the LT-MDL
- o -- Result determined by alternate method
- t -- Below the long-term MDL
- v -- Analyte detected in laboratory blank

Null value qualifier codes used in this table:
- u -- Unable to determine-matrix interference

COUNTIES.--Gosper

MISCELLANEOUS STATION ANALYSES

Date	Time	Instantaneous discharge, cfs (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Coliphage, E coli, FAMP, MF, plaques /100 mL (90904)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Suspended sediment concentration mg/L (80154)
06767450 PLUM CREEK 1 MI S of JOHNSON LAKE near ELWOOD (LAT 40 40 10N LONG 099 52 09W)													
MAY													
2004													
04...	1320	3.3	2.6	695	7.1	74	7.9	992	17.0	13.0	--	66	80
18...	1320	3.3	2.6	695	7.1	74	7.9	992	17.0	13.0	--	150	81
JUN													
01...	1210	2.3	3.8	--	7.2	--	7.4	833	18.5	14.5	--	120	8
15...	1210	1.9	4.2	700	5.3	61	7.4	1,000	23.0	18.0	--	140	37
29...	1100	2.4	9.4	--	4.6	--	7.6	971	22.0	15.0	--	96	17
JUL													
12...	1130	2.3	13	700	4.2	49	7.5	980	29.0	18.5	--	180	23
27...	1200	2.0	12	701	4.2	48	7.5	996	24.5	17.0	--	140	30
AUG													
09...	1210	1.6	13	695	4.8	55	7.5	1,000	22.0	18.0	--	73	39
23...	1140	1.5	11	694	5.0	59	7.3	1,060	24.0	18.5	--	30	26
SEP													
07...	1150	1.2	12	706	5.8	63	7.3	986	20.0	15.5	--	37	172
21...	1140	1.7	6.8	698	3.7	41	7.4	996	15.0	15.5	--	63	20
06767470 PLUM CREEK 2.5 MI E of ELWOOD RES near ELWOOD (LAT 40 37 35N LONG 099 46 38W)													
MAY													
2004													
04...	1110	13	16	700	9.2	98	7.7	936	20.0	14.0	--	260	66
18...	1300	13	15	695	8.7	91	8.2	968	17.5	13.0	<1	750	79
JUN													
01...	1140	10	27	--	9.8	--	7.9	800	18.5	14.4	<1	580	78
15...	1130	9.1	32	700	8.0	93	7.9	953	21.0	18.4	<1	870	108
29...	1030	9.9	48	--	9.0	--	8.1	946	20.0	15.5	<1	650	91
JUL													
12...	1000	15	40	700	6.8	80	7.7	957	30.0	19.0	<1	1,300	171
27...	1130	9.7	36	701	7.7	86	7.7	957	24.0	16.5	<1	1,400	86
AUG													
09...	1130	7.9	37	695	8.9	103	7.9	962	21.0	17.5	<1	630	95
23...	1110	8.3	44	694	8.4	100	8.1	972	24.0	19.0	<1	150	101
SEP													
07...	1120	5.5	22	706	10.4	111	8.0	956	20.0	14.5	6	200	55
21...	1100	6.8	29	698	7.8	87	7.6	959	17.0	16.4	<1	280	72
06767490 PLUM CREEK 2.5 MI N of SMITHFIELD (LAT 40 36 16N LONG 099 44 16W)													
MAY													
2004													
04...	1220	14	27	700	8.7	95	7.9	928	20.0	15.2	<1	160	134
18...	1240	13	31	695	8.7	92	8.3	945	17.0	13.5	--	410	146
JUN													
01...	1110	10	49	--	10.1	--	8.2	792	18.0	14.6	--	810	126
15...	1110	9.6	81	700	8.3	100	8.0	950	22.0	19.8	--	920	200
29...	1000	11	120	--	9.3	--	8.2	930	20.0	16.0	--	560	185
JUL													
12...	1030	14	96	700	6.6	82	7.9	945	28.0	21.0	--	2,600	198
27...	1100	11	47	701	7.9	90	8.1	938	23.0	17.5	--	1,500	131
AUG													
09...	1100	8.8	60	695	9.0	106	8.1	928	21.0	18.5	--	--	122
23...	1040	8.2	58	694	8.9	108	7.9	938	24.0	20.0	--	260	112
SEP													
07...	1040	6.0	26	706	10.6	114	8.1	916	19.0	15.0	--	80	51
21...	1040	6.0	33	700	7.8	89	8.1	956	16.5	17.4	--	880	66

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Suspended sediment discharge, tons/d (80155)
06767450 PLUM CREEK 1 MI S of JOHNSON LAKE near ELWOOD (LAT 40 40 10N LONG 099 52 09W)	
MAY 2004	
04...	.71
18...	.72
JUN	
01...	.05
15...	.19
29...	.11
JUL	
12...	.15
27...	.16
AUG	
09...	.17
23...	.10
SEP	
07...	.56
21...	.09
06767470 PLUM CREEK 2.5 MI E of ELWOOD RES near ELWOOD (LAT 40 37 35N LONG 099 46 38W)	
MAY 2004	
04...	2.3
18...	2.7
JUN	
01...	2.2
15...	2.7
29...	2.4
JUL	
12...	6.9
27...	2.2
AUG	
09...	2.0
23...	2.3
SEP	
07...	.82
21...	1.3
06767490 PLUM CREEK 2.5 MI N of SMITHFIELD (LAT 40 36 16N LONG 099 44 16W)	
MAY 2004	
04...	5.1
18...	5.0
JUN	
01...	3.4
15...	5.2
29...	5.4
JUL	
12...	7.2
27...	3.9
AUG	
09...	2.9
23...	2.5
SEP	
07...	.83
21...	1.1

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Time	Altitude of land surface feet (72000)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Drainage area, mi2 (81024)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06767500 PLUM CREEK NEAR SMITHFIELD, NE (LAT 40 38 28N LONG 099 42 38W)													
MAY													
2004													
05...	0820	2,400	4.10	--	224	--	701	7.8	84	7.6	940	--	14.3
18...	1210	2,400	4.10	--	224	160	695	8.2	88	8.2	909	17.0	14.0
JUN													
01...	1040	2,400	4.03	--	224	91	--	9.4	--	8.1	789	17.5	14.3
15...	1050	2,400	4.00	--	224	140	--	7.9	--	8.0	939	20.5	20.6
29...	0930	2,400	4.04	--	224	180	--	9.1	--	8.2	910	20.0	16.5
JUL													
12...	1000	2,400	4.12	--	224	150	700	6.3	79	8.1	915	27.0	22.0
27...	1030	2,400	4.10	--	224	110	701	7.6	88	8.2	886	21.0	18.0
AUG													
09...	1040	2,400	4.04	--	224	280	695	9.3	112	8.0	900	20.5	19.5
23...	1020	2,400	4.00	--	224	92	694	8.4	105	8.2	898	24.0	21.0
SEP													
07...	1020	2,400	4.08	--	224	54	706	11.7	126	8.0	913	18.0	15.0
21...	1020	2,400	3.84	--	224	53	700	7.8	89	8.2	946	17.0	17.4
06767510 PLUM CREEK 2 MI W of GOSPER COUNTY LINE (LAT 40 40 05N LONG 099 40 51W)													
MAY													
2004													
05...	0940	--	--	14	--	80	701	8.3	90	7.9	936	18.0	15.0
18...	1150	--	--	14	--	100	695	8.4	89	8.2	921	17.0	13.5
JUN													
01...	1020	--	--	12	--	--	--	9.0	--	8.0	778	17.0	14.8
15...	1020	--	--	11	--	200	700	8.1	98	8.0	943	18.0	20.2
29...	0900	--	--	13	--	210	--	8.6	--	8.3	915	16.8	16.8
JUL													
12...	0930	--	--	16	--	210	700	5.9	75	8.2	891	26.0	22.5
27...	1000	--	--	11	--	120	701	7.4	85	8.2	891	20.0	18.0
AUG													
09...	1010	--	--	10	--	260	695	8.5	103	8.1	886	20.0	20.0
23...	1000	--	--	11	--	130	694	8.3	102	8.1	893	24.0	21.0
SEP													
07...	1000	--	--	6.7	--	200	706	9.9	108	8.1	866	16.0	15.5
21...	1000	--	--	6.0	--	57	700	7.6	87	8.3	943	17.0	17.8
06767520 PLUM CREEK 0.5 MI W of GOSPER COUNTY LINE (LAT 40 41 01N LONG 099 39 11W)													
MAY													
2004													
05...	1040	--	--	16	--	69	701	8.6	96	8.0	933	20.0	16.6
18...	1120	--	--	14	--	140	695	8.7	93	8.4	903	17.0	14.0
JUN													
01...	0930	--	--	12	--	150	--	8.6	--	8.2	922	17.0	15.2
15...	0950	--	--	9.4	--	200	700	8.5	104	8.1	937	19.0	20.8
29...	0840	--	--	13	--	180	--	8.4	--	8.4	902	20.0	17.1
JUL													
12...	0850	--	--	17	--	210	700	6.3	81	8.1	864	26.0	23.5
27...	0900	--	--	11	--	120	701	7.9	90	8.2	882	18.5	17.5
AUG													
09...	1000	--	--	9.7	--	150	695	8.5	105	8.0	884	20.0	21.0
23...	0940	--	--	11	--	160	694	8.6	107	8.3	898	24.0	21.0
SEP													
07...	0940	--	--	12	--	62	706	10.4	118	8.4	983	16.0	17.5
21...	0940	--	--	12	--	50	700	7.5	88	8.4	1,100	17.0	18.4

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Coliphage, E coli, FAMP, MF, plaques /100 mL (90904)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
06767500 PLUM CREEK NEAR SMITHFIELD, NE (LAT 40 38 28N LONG 099 42 38W)				
MAY				
2004				
05...	--	710	208	--
18...	<1	4,900	346	--
JUN				
01...	--	600	200	--
15...	<1	1,100	351	--
29...	<1	1,300	322	--
JUL				
12...	--	1,800	713	--
27...	--	2,200	280	--
AUG				
09...	--	1,500	379	--
23...	--	690	198	--
SEP				
07...	--	210	80	--
21...	--	490	115	--
06767510 PLUM CREEK 2 MI W of GOSPER COUNTY LINE (LAT 40 40 05N LONG 099 40 51W)				
MAY				
2004				
05...	--	280	339	13
18...	--	1,600	232	8.5
JUN				
01...	--	960	356	11
15...	--	1,200	331	10
29...	--	2,000	328	11
JUL				
12...	--	1,800	324	14
27...	--	740	276	8.2
AUG				
09...	--	1,000	260	7.2
23...	--	430	257	7.4
SEP				
07...	--	390	125	2.3
21...	--	480	132	2.1
06767520 PLUM CREEK 0.5 MI W of GOSPER COUNTY LINE (LAT 40 41 01N LONG 099 39 11W)				
MAY				
2004				
05...	<1	110	186	8.2
18...	<1	930	234	9.0
JUN				
01...	<1	540	212	6.6
15...	<1	2,300	306	7.8
29...	<1	2,000	306	11
JUL				
12...	<1	1,200	316	15
27...	--	660	261	8.0
AUG				
09...	<1	510	233	6.1
23...	<1	500	255	7.6
SEP				
07...	<1	130	126	3.9
21...	<1	2,400	119	3.8

Remark codes used in this table:
< -- Less than

COUNTIES.--Lancaster

MISCELLANEOUS STATION ANALYSES

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Noncarb hardness, wat flt lab, mg/L as CaCO3 (00905)	Calcium water, fltrd, mg/L (00915)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)													
AUG 2003													
28...	0900	.01	70	12	726	2.4	7.8	693	24.8	22.7	230	--	64.0
DEC													
15...	1100	.01	30	20	715	10.8	7.8	732	3.0	.5	260	--	76.1
FEB 2004													
04...	0900	.01	30	17	734	10.9	E6.9	780	-6.4	-.8	300	--	86.7
MAR													
01...	0900	.84	40	65	713	10.3	7.5	460	--	1.6	160	--	47.2
MAY													
24...	1100	8.2	10	1,590	725	8.9	6.5	277	23.0	18.3	98	32	27.6
JUN													
14...	1330	6.8	10	1,250	726	7.6	7.8	288	31.7	21.7	97	11	27.8
JUL													
19...	0930	.84	10	140	723	6.5	7.7	423	29.5	22.2	170	10	47.6
AUG													
25...	0930	.10	70	E25	722	4.4	7.8	576	25.5	21.1	230	--	63.6

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L (71846)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)													
AUG 2003													
28...	17.5	8.70	2	60.8	311	14.9	.5	14.5	47.2	427	54	.98	.31
DEC													
15...	18.2	7.40	2	59.9	323	14.3	.4	22.2	65.5	461	<10	--	.07
FEB 2004													
04...	20.2	5.36	2	72.1	352	15.3	.3	24.7	76.3	520	18	--	.13
MAR													
01...	11.0	5.59	1	35.4	164	18.6	.2	13.9	43.9	289	54d	--	.05
MAY													
24...	7.15	9.18	.5	12.2	67@c	4.21	.4	9.28	40.9	181	610d	--	.20
JUN													
14...	6.62	8.24	.5	11.8	86@c	4.15	.4	9.25	30.8	153	500d	--	.06
JUL													
19...	11.8	9.63	.5	15.8	158@c	5.77	.5	6.98	46.3	264	137d	--	.10
AUG													
25...	17.0	10.3	.9	30.6	249@c	9.91	.5	5.29	38.3	332	24d	--	.15

CARDWELL BRANCH WATERSHED ASSESSMENT—Continued

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Organic nitro-gen, water, unfltrd mg/L (00605)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Total nitro-gen, wat unf by anal ysis, mg/L (62855)	Total nitro-gen, water, unfltrd mg/L (00600)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)													
AUG 2003													
28...	.24	.438	.10	.13	.105	.032	.74	1.23	.40	.50oc	--	1.1	2.6
DEC													
15...	.05	--	--	.15	--	E.004n	--	1.34	.437d	.66	.85	--	2.0
FEB 2004													
04...	.10	--	--	.80	--	E.004n	--	1.20	.392d	.50oc	1.40	--	E1.8
MAR													
01...	.04	3.66	.83	.85	.069	.021	--	.684	.223d	.43oc	1.76	--	3.7
MAY													
24...	.15	17.2	3.90	3.99	.309	.094	--	.610	.199	1.47oc	6.14d	--	9.8
JUN													
14...	.05	9.58	2.16	2.22	.171	.052	--	.564	.184	.94oc	2.85	--	5.8
JUL													
19...	.08	2.31	.52	.54	.066	.020	--	.258	.084	.29oc	1.89	--	3.2
AUG													
25...	.12	.412	.09	.11	.046	.014	--	.432	.141	.26oc	1.37	--	2.8

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	COD, high level, water, unfltrd mg/L (00340)	Pheo-phytin a, peri-phyton, mg/m2 (62359)	E coli, modif. m-TEC, water, col/ 100 mL (90902)	Chloro-phyll a peri-phyton, chromo-fluoro, mg/m2 (70957)	Arsenic water, fltrd, ug/L (01000)	Cadmium water, unfltrd ug/L (01027)	Copper, water, unfltrd recover -able, ug/L (01042)	Iron, water, fltrd, ug/L (01046)	Lead, water, unfltrd recover -able, ug/L (01051)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recover -able, ug/L (71900)	Nickel, water, unfltrd recover -able, ug/L (01067)	Zinc, water, unfltrd recover -able, ug/L (01092)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)													
AUG 2003													
28...	30	4.1	--	2.8	--	E.03n	1.9	9	.54	1,380	<.02	7.26	5
DEC													
15...	20	--	--	--	10.4	--	--	9	--	312	--	--	--
FEB 2004													
04...	10	--	--	--	10.2	--	--	11	--	277	--	--	--
MAR													
01...	<10c	--	--	--	5.0	--	--	13	--	573	--	--	--
MAY													
24...	90	--	--	--	2.8	--	--	18	--	1.0	--	--	--
JUN													
14...	<10	--	E4,900c	--	3.8	--	--	10	--	12.8	--	--	--
JUL													
19...	30	--	1,400	--	5.1	--	--	<6	--	163	--	--	--
AUG													
25...	20	--	200	--	--	.06	2.9	15	1.04	442	<.02	9.37	4

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Oil and grease, water, unfltrd freon extract mg/L (00556)	1,4-Dichlorobenzene water, fltrd, ug/L (34572)	1-Methylnaphthalene, water, fltrd, ug/L (62054)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	2,6-Dimethylnaphthalene, water, fltrd, ug/L (62055)	CIAT, water, fltrd, ug/L (04040)	2-Methylnaphthalene, water, fltrd, ug/L (62056)	3-beta-Coprostanol, water, fltrd, ug/L (62057)	3-Methyl-1H-indole, water, fltrd, ug/L (62058)	3-tert-Butyl-4-hydroxyanisole wat flt ug/L (62059)	4-Cumylphenol, water, fltrd, ug/L (62060)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)											
AUG 2003											
28...	<7+c	<.5	<.5	<.006	<.5	E.020	<.5	<2	<1	M	<1
DEC											
15...	--	<.5	<.5	<.006	<.5	E.006n	<.5	<2	<1	<5	<1
FEB 2004											
04...	--	<.5	M	<.006	<.5	E.008	M	<2	<1	<5	<1
MAR											
01...	--	<.5	<.5	<.006	<.5	E.062	<.5	<2	<1	<5	<1
MAY											
24...	--	<.5	E.1	<.006	<.5	E.883	E.1	<2	<1	<5	<1
JUN											
14...	--	<.5	<.5	<.006	<.5	E.814	<.5	<2	<1	<5	<1
JUL											
19...	--	<.5	<.5	<.006	<.5	E.721	<.5	<2	<1	<5	<1
AUG											
25...	<7	<.5	<.5	<.006	<.5	E.338	<.5	<2	<1	<5	<1

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	4-Octylphenol, water, fltrd, ug/L (62061)	4-Nonylphenol, water, fltrd, ug/L (62085)	4-tert-Octylphenol, water, fltrd, ug/L (62062)	5-Methyl-1H-benzotriazole, wat flt ug/L (62063)	9,10-Anthraquinone water, fltrd, ug/L (62066)	9H-Fluorene, water, unfltrd ug/L (34381)	Acenaphthene, water, unfltrd ug/L (34205)	Acenaphthylene, water, unfltrd ug/L (34200)	Acetochlor, water, fltrd, ug/L (49260)	Acetophenone water, fltrd, ug/L (62064)	AHTN, water, fltrd, ug/L (62065)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)													
AUG 2003													
28...	<1	<5	<1	<2	<.5	<2	<2	<2	<.006	<.5	<.5	<.004	<.005
DEC													
15...	<1	<5	<1	<2	<.5	--	--	--	<.006	<.5	<.5	<.005	<.005
FEB 2004													
04...	<1	<5	<1	<2	<.5	--	--	--	<.006	<.5	M	<.005	<.005
MAR													
01...	<1	<5	<1	<2	<.5	--	--	--	<.006	<.5	<.5	<.005	<.005
MAY													
24...	<1	E2	<1	<2	<.5	--	--	--	.069	<.5	<.5	.205	<.005
JUN													
14...	<1	<5	M	<2	<.5	--	--	--	.029	<.5	M	.062	<.005
JUL													
19...	<1	<5	<1	<2	<.5	--	--	--	.009	<.5	<.5	<.005	<.005
AUG													
25...	<1	E1t	<1	<2	<.5	<2	Mt	<2	<.006	V.1t	<.5	<.005	<.005

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Anthracene, water, fltrd, ug/L (34221)	Anthracene, water, unfltrd ug/L (34220)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Benflurralin, water, fltrd 0.7u GF ug/L (82673)	Benzo[a]anthracene, water, unfltrd ug/L (34526)	Benzo[a]pyrene, water, fltrd, ug/L (34248)	Benzo[a]pyrene, water, unfltrd ug/L (34247)	Benzo[b]fluoranthene water unfltrd ug/L (34230)	Benzo[g,h,i]perylene, water, unfltrd ug/L (34521)	Benzo[k]fluoranthene water unfltrd ug/L (34242)	Benzophenone water, fltrd, ug/L (62067)	beta-Sitosterol, water, fltrd, ug/L (62068)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)													
AUG 2003													
28...	<.5	<2	.085	<.050	<.010	<2	<.5	<1	<2	<3	<2	<.5	<2
DEC													
15...	<.5	--	.028	<.050	<.010	--	<.5	--	--	--	--	<.5	<2
FEB 2004													
04...	<.5	--	.015	<.050	<.010	--	<.5	--	--	--	--	E.1	<2
MAR													
01...	<.5	--	.237	<.050	<.010	--	<.5	--	--	--	--	<.5	<2
MAY													
24...	<.5	--	11.8d	<.050	<.010	--	<.5	--	--	--	--	<.5	<2
JUN													
14...	<.5	--	13.3	<.050	<.010	--	<.5	--	--	--	--	E.1	<2
JUL													
19...	<.5	--	4.59	<.050	<.010	--	<.5	--	--	--	--	<.5	<2
AUG													
25...	<.5	<2	1.30	<.050	<.010	<2	<.5	<1	<2	<3	<2	<.5	<2

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	beta-Stigmastanol, water, fltrd, ug/L (62086)	Bisphenol A, water, fltrd, ug/L (62069)	Bromacil, water, fltrd, ug/L (04029)	Butylate, water, fltrd, ug/L (04028)	Caffeine, water, fltrd, ug/L (50305)	Camphor water, fltrd, ug/L (62070)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbazole, water, fltrd, ug/L (62071)	Carbofuran, water, fltrd 0.7u GF ug/L (82674)	Chlorpyrifos water, fltrd, ug/L (38933)	Cholesterol, water, fltrd, ug/L (62072)	Chrysene, water, unfltrd ug/L (34320)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)													
AUG 2003													
28...	<2	M	<.5	<.002	<.5	<.5	<.041	<.5	<.020	<.005	<2	<3	<.006
DEC													
15...	<2	<1	<.5	<.004	<.5	<.5	<.041	<.5	<.020	<.005	<2	--	<.006
FEB 2004													
04...	<2	<1	<.5	<.004	<.5	<.5	<.041	M	<.020	<.005	<2	--	<.006
MAR													
01...	<2	<1	<.5	<.004	<.5	<.5	<.041	<.5	<.020	<.005	<2	--	<.006
MAY													
24...	<2	<1	<.5	<.004	<.5	<.5	E.014t	<.5	<.020	<.020	<2	--	<.006
JUN													
14...	<2	<1	<.5	<.004	<.5	<.5	E.259	<.5	<.020	<.015	<2	--	<.006
JUL													
19...	<2	<1	<.5	<.004	<.5	<.5	<.041	<.5	<.020	<.005	E1t	--	<.006
AUG													
25...	<2	<1	<.5	<.004	<.5	<.5	<.041	<.5	<.020	<.005	<2	<3	<.006

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Cotinine, water, fltrd, ug/L (62005)	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	DEET, water, fltrd, ug/L (62082)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	Dibenzo-[a,h]-anthracene, wat unf ug/L (34556)	Dieldrin, water, fltrd, ug/L (39381)	Diethoxynonylphenol, water, fltrd, ug/L (62083)	Diethoxyoctylphenol, water, fltrd ug/L (61705)	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	D-Limonene, water, fltrd, ug/L (62073)	EPTC, water, fltrd 0.7u GF ug/L (82668)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)													
AUG 2003													
28...	<1.00	<.018	<.003	--	<.004	<.005	<3	<.005	<5	<1	<.02	E.1	<.002
DEC													
15...	<1.00	<.018	<.003	V.1	<.012	<.005	--	<.009	<5	<1	<.02	<.5	<.004
FEB 2004													
04...	<1.00	<.018	<.003	V.1	<.012	<.005	--	<.009	<5	<1	<.02	<.5	<.004
MAR													
01...	<1.00	<.018	<.003	<.5	<.012	<.005	--	<.009	<5	<1	<.02	<.5	<.004
MAY													
24...	<1.00	<.018	<.003	V.1	<.012	<.006	--	<.009	E3	<1	<.02	<.5	<.004
JUN													
14...	<1.00	<.018	<.003	V.1	<.012	<.005	--	<.009	<5	<1	<.02	<.5	<.004
JUL													
19...	<1.00	<.018	<.003	V.1t	<.012	<.005	--	<.009	<5	<1	<.02	<.5	<.004
AUG													
25...	<1.00	<.018	<.003	V.1t	<.012	<.005	<3	<.009	<5	<1	<.02	<.5	<.004

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Ethalfluralin, water, fltrd 0.7u GF ug/L (82663)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Ethoxyoctylphenol, water, fltrd ug/L (61706)	Desulfinylfipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Fluoranthene water, fltrd, ug/L (34377)	Fluoranthene water unfltrd ug/L (34376)	Fonofos water, fltrd, ug/L (04095)	HHCB, water, fltrd, ug/L (62075)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)											
AUG 2003											
28...	<.009	<.005	<1	<.009	<.005	<.005	<.007	<.5	<2	<.003	<.5
DEC											
15...	<.009	<.005	<1	<.029	<.013	<.024	<.016	<.5	--	<.003	<.5
FEB 2004											
04...	<.009	<.005	<1	<.029	<.013	<.024	<.016	<.5	--	<.003	E.1
MAR											
01...	<.009	<.005	<1	<.029	<.013	<.024	<.016	<.5	--	<.003	<.5
MAY											
24...	<.009	<.005	<1	<.029	<.013	<.024	<.016	<.5	--	<.003	<.5
JUN											
14...	<.009	<.005	<1	<.029	<.013	<.024	<.016	<.5	--	<.003	M
JUL											
19...	<.009	<.005	<1	<.029	<.013	<.024	<.016	<.5	--	<.003	<.5
AUG											
25...	<.009	<.005	<1	<.029	<.013	<.024	<.016	<.5	<2	<.003	<.5

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Indeno-[1,2,-3-cd]-pyrene, water, unfltrd ug/L (34403)	Indole, water, fltrd, ug/L (62076)	Isobor-neol, water, fltrd, ug/L (62077)	Iso-phorone water, fltrd, ug/L (34409)	Iso-propyl-benzene water, fltrd, ug/L (62078)	Iso-quin-oline, water, fltrd, ug/L (62079)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Mala-thion, water, fltrd, ug/L (39532)	Menthol water, fltrd, ug/L (62080)	Meta-laxyl, water, fltrd, ug/L (50359)	Methyl para-thion, water, fltrd 0.7u GF ug/L (82667)	Methyl salicy-late, water, fltrd, ug/L (62081)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)													
AUG 2003													
28...	<3	<.5	<.5	<.5	<.5	<.5	<.004	<.035	E.005t	<.5	<.5	<.006	M
DEC													
15...	--	<.5	<.5	<.5	<.5	<.5	<.004	<.035	<.027	<.5	<.5	<.015	<.5
FEB 2004													
04...	--	<.5	<.5	<.5	<.5	<.5	<.004	<.035	<.027	<.5	<.5	<.015	M
MAR													
01...	--	<.5	<.5	<.5	<.5	<.5	<.004	<.035	<.027	<.5	<.5	<.015	<.5
MAY													
24...	--	<.5	<.5	<.5	<.5	<.5	<.004	<.035	<.027	<.5	<.5	<.015	<.5
JUN													
14...	--	M	<.5	M	<.5	<.5	<.004	<.035	<.027	E.1	<.5	<.015	<.5
JUL													
19...	--	<.5	<.5	<.5	<.5	<.5	<.004	<.035	<.027	<.5	<.5	<.015	<.5
AUG													
25...	<3	<.5	<.5	<.5	<.5	<.5	<.004	<.035	<.027	<.5	<.5	<.015	<.5

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Metola-chlor, water, fltrd, ug/L (39415)	Metri-buzin, water, fltrd, ug/L (82630)	Moli-nate, water, fltrd 0.7u GF ug/L (82671)	Naphth-alene, water, fltrd, ug/L (34443)	Naprop-amide, water, fltrd 0.7u GF ug/L (82684)	Nitro-benzene water unfltrd ug/L (34447)	p,p-' DDE, water, fltrd, ug/L (34653)	Para-thion, water, fltrd, ug/L (39542)	p-Cresol, water, fltrd, ug/L (62084)	Peb-ulate, water, fltrd 0.7u GF ug/L (82669)	Pendi-meth-alin, water, fltrd 0.7u GF ug/L (82683)	Penta-chloro-phenol, water, fltrd, ug/L (34459)	Phenan-threne, water, fltrd, ug/L (34462)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)													
AUG 2003													
28...	.160	<.006	<.002	<.5	<.007	<2	<.003	<.010	<1	<.004	<.022	<2	<.5
DEC													
15...	.046	<.006	<.003	E.1	<.007	--	<.003	<.010	<1	<.004	<.022	<2	M
FEB 2004													
04...	.019	<.006	<.003	E.2	<.007	--	<.003	<.010	<1	<.004	<.022	<2	M
MAR													
01...	.092	<.006	<.003	<.5	<.007	--	<.003	<.010	<1	<.004	<.022	<2	<.5
MAY													
24...	6.88d	.016	<.003	E.1	<.007	--	<.019	<.010	<1	<.004	E.018n	<2	<.5
JUN													
14...	4.68	.011	<.003	<.5	<.007	--	<.030	<.010	M	<.004	<.022	<2	M
JUL													
19...	4.08	<.006	<.003	<.5	<.007	--	<.003	<.010	<1	<.004	<.022	<2	<.5
AUG													
25...	.690	<.006	<.003	<.5	<.007	<2	<.003	<.010	<1	<.004	<.022	<2	<.5

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Phenanthrene, water, unfltrd ug/L (34461)	Phenol, water, fltrd, ug/L (34466)	Phorate water fltrd 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Pyrene, water, fltrd, ug/L (34470)	Pyrene, water, unfltrd ug/L (34469)	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbacil, water, fltrd 0.7u GF ug/L (82665)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)													
AUG 2003													
28...	<2	<.5	<.011	Mt	<.004	<.010	<.011	<.02	<.5	<2	<.005	<.02	<.034
DEC													
15...	--	<.5	<.011	.01	<.004	<.025	<.011	<.02	<.5	--	<.005	<.02	<.034
FEB 2004													
04...	--	<.5	<.011	<.01	<.004	<.025	<.011	<.02	<.5	--	<.005	<.02	<.034
MAR													
01...	--	<.5	<.011	<.01	<.004	<.025	<.011	<.02	<.5	--	<.005	<.02	<.034
MAY													
24...	--	<.5	<.011	.03	<.004	<.025	<.011	<.02	<.5	--	.064	<.02	<.034
JUN													
14...	--	V.1	<.011	.02	<.004	<.025	<.011	<.02	<.5	--	.053	<.02	<.034
JUL													
19...	--	V.4t	<.011	.02	<.004	<.025	<.011	<.02	<.5	--	.019	<.02	<.034
AUG													
25...	<2	<.5	<.011	.01	<.004	<.025	<.011	<.02	<.5	<2	<.005	<.02	<.034

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Tetrachloroethene, water, fltrd, ug/L (34476)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	Triallate, water, fltrd 0.7u GF ug/L (82678)	Tribromomethane water, fltrd, ug/L (34288)	Tributyl phosphate, water, fltrd, ug/L (62089)	Triclosan, water, fltrd, ug/L (62090)	Triethyl citrate water, fltrd, ug/L (62091)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Triphenyl phosphate, water, fltrd, ug/L (62092)	Tris(2-butoxyethyl) phosphate, wat flt ug/L (62093)	Tris(2-chloroethyl) phosphate, wat flt ug/L (62087)	Tris(dichloroi-Pr) phosphate, wat flt ug/L (62088)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)													
AUG 2003													
28...	<.02	E.1	<.005	<.002	<.5	<.5	<1	<.5	<.009	<.5	<.5	<.5	<.5
DEC													
15...	<.02	<.5	<.010	<.002	<.5	<.5	<1	<.5	<.009	<.5	<.5	<.5	<.5
FEB 2004													
04...	<.02	<.5	<.010	<.002	<.5	<.5	<1	<.5	<.009	M	<.5	<.5	<.5
MAR													
01...	<.02	<.5	<.010	<.002	<.5	<.5	<1	<.5	<.009	<.5	<.5	<.5	<.5
MAY													
24...	<.02	<.5	<.010	<.002	<.5	<.5	<1	<.5	<.009	<.5	<.5	<.5	<.5
JUN													
14...	<.02	<.5	<.010	<.002	<.5	E.1	<1	<.5	<.009	<.5	<.5	E.1	<.5
JUL													
19...	<.02	<.5	<.010	<.002	<.5	<.5	<1	<.5	<.009	<.5	<.5	<.5	<.5
AUG													
25...	<.02	<.5	<.010	<.002	<.5	<.5	<1	<.5	<.009	<.5	<.5	<.5	<.5

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Naphthalene, water, unfltrd ug/L (34696)	Dichlorvos, water fltrd, ug/L (38775)
404413096431401 CARDWELL BR AT SW 1ST ST., LANCASTER CO., NE (LAT 40 44 13N LONG 096 43 14W)		
AUG 2003		
28...	<2	<1.00
DEC		
15...	--	<1.00
FEB 2004		
04...	--	<1.00
MAR		
01...	--	<1.00
MAY		
24...	--	<1.00
JUN		
14...	--	<1.00
JUL		
19...	--	<1.00
AUG		
25...	<2	--u

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified
V -- Contamination

Value qualifier codes used in this table:
+ -- Improper preservation
@ -- Holding time exceeded
c -- See laboratory comment
d -- Diluted sample: method hi range exceeded
n -- Below the LRL and above the LT-MDL
o -- Result determined by alternate method
t -- Below the long-term MDL

Null value qualifier codes used in this table:
u -- Unable to determine-matrix interference

(Station Name: indicates location by township, range, and section. Geologic unit: 121OGLL, Tertiary Ogallala Formation; 123BRUL, Brule Formation.)

COUNTIES.--Cheyenne

MULTIPLE STATION ANALYSES

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
		CHEYENNE COUNTY				
410803103020001	13N 50W 3AA 1	41 08 03 N	103 01 53 W	--	04-13-04	1800
410805102560601	14N 49W34CCC 1	41 08 05 N	102 56 06 W	--	04-13-04	1700
410818103081901	14N 51W35CACD1	41 08 18 N	103 08 19 W	--	04-08-04	1200
410818103081902	14N 51W35CACD2	41 08 18 N	103 08 19 W	--	04-08-04	1300
410857103025101	14N 50W27CDCD1	41 08 57 N	103 02 51 W	--	04-06-04	1530
410857103025102	14N 50W27CDCD2	41 08 57 N	103 02 51 W	--	04-06-04	1300
410901103014801	14N 50W26CCCC1	41 09 01 N	103 01 48 W	123BRUL	04-05-04	1600
411012102574101	14N 49W20DBAB1	41 10 12 N	102 57 41 W	--	04-07-04	1000
411012102574102	14N 49W20DBAB2	41 10 12 N	102 57 41 W	--	04-07-04	1100
411034103063001	14N 51W24AAD 1	41 10 34 N	103 06 30 W	--	04-15-04	1000
411035103063001	14N 51W24ADDA1	41 10 35 N	103 06 30 W	--	04-15-04	1100
411040102560601	14N 49W21AAAA1	41 10 40 N	102 56 06 W	--	04-07-04	0830
411040103041401	14N 50W20AAAA1	41 10 40 N	103 04 14 W	123BRUL	04-08-04	0900
411044103012601	14N 50W14CDCA1	41 10 44 N	103 01 26 W	123BRUL	04-12-04	1700
411108102594001	14N 50W13DAAA1	41 11 08 N	102 59 40 W	--	04-08-04	1700
411131102574901	14N 49W17BAAA1	41 11 31 N	102 57 49 W	--	04-08-04	1800
411210102571301	14N 49W 9BCBB1	41 12 10 N	102 57 13 W	121OGLL	04-06-04	1800
411214103052001	14N 50W 7AADD1	41 12 14 N	103 05 20 W	123BRUL	04-14-04	1900
411227103011701	14N 50W 2DC 1	41 12 27 N	103 01 17 W	121OGLL	04-07-04	1600
411227103011702	14N 50W 2DC 2	41 12 27 N	103 01 17 W	121OGLL	04-07-04	1700
411227103011703	14N 50W 2DC 3	41 12 27 N	103 01 17 W	123BRUL	04-07-04	1800
411229102593401	14N 50W 1DDDA1	41 12 29 N	102 59 34 W	--	04-13-04	1000
411229102593402	14N 50W 1DDDA2	41 12 29 N	102 59 34 W	--	04-14-04	1000
411252103041101	14N 50W 5ADDD1	41 12 52 N	103 04 11 W	121OGLL	04-14-04	1200
411252103041102	14N 50W 5ADDD2	41 12 52 N	103 04 11 W	123BRUL	04-14-04	1400
411301102593501	14N 50W 1AADD1	41 13 01 N	102 59 35 W	--	04-13-04	1300
411301102593502	14N 59W 1AADD2	41 13 01 N	102 59 35 W	--	04-13-04	1400
411350103011501	15N 50W35ACC 1	41 13 50 N	103 01 15 W	121OGLL	04-09-04	1100
411350103011502	15N 50W35ACC 2	41 13 50 N	103 01 15 W	--	04-09-04	1200

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
CHEYENNE COUNTY												
410803103020001	--	58.26	4,132	1.5	680	21	6.8	76	7.2	675	18.0	15.0
410805102560601	60	21.31	4,067	1.6	680	12	8.0	85	7.2	611	21.0	13.0
410818103081901	143	79.92	4,335	.50	680		5.2	57	9.9	696	10.0	14.5
410818103081902	304	90.47	4,335	.50	680	--	5.1	56	--	570	10.0	14.0
410857103025101	108	38.60	4,141	.50	679	8.9	--	--	7.7	520	21.0	15.5
410857103025102	230	38.75	4,141	2.0	679	2.4	5.3	58	8.2	513	20.0	14.0
410901103014801	90	67.15	4,164	1.0	681	8.9	8.3	93	7.5	428	20.0	15.0
411012102574101	70	61.07	4,207	1.5	679	11	8.5	92	7.4	417	15.0	13.5
411012102574102	94	61.29	4,207	1.5	679	15	--	--	7.3	407	18.0	14.0
411034103063001	80	48.80	4,196	1.5	681	13	8.5	90	7.3	390	11.0	13.0
411035103063001	182	42.31	4,190	2.0	681	5.0	3.8	42	7.9	479	15.0	14.5
411040102560601	106	95.07	4,204	1.1	679	14	8.4	91	7.2	428	5.0	13.5
411040103041401	325	89.08	4,235	2.0	680	.9	1.6	19	8.7	530	9.0	17.0
411044103012601	226	154.77	4,330	1.1	680	--	7.5	84	--	290	9.0	15.4
411108102594001	163	132.86	4,277	1.2	680	9.5	7.9	87	7.4	331	13.0	14.5
411131102574901	121	115.75	4,255	1.7	680	13	8.5	91	7.4	523	14.0	13.5
411210102571301	57	41.37	4,252	1.2	679	17	7.3	78	7.3	493	22.0	13.0
411214103052001	357	161.01	4,368	.90	678	7.2	7.5	84	7.6	311	12.0	15.0
411227103011701	198	166.33	4,335	.80	679	1.8	5.0	57	8.1	324	19.0	16.0
411227103011702	276	166.33	4,335	1.2	679	6.1	5.6	65	7.7	402	17.5	17.0
411227103011703	385	164.90	4,335	1.0	679	7.0	6.9	77	7.6	349	20.0	15.0
411229102593401	175	143.01	4,308	1.0	680	5.4	6.7	74	7.8	404	10.0	15.0
411229102593402	304	155.95	4,308	.50	678		1.4	16	11.7	2,710	11.0	15.5
411252103041101	220	170.84	4,367	.80	678	5.6	7.2	84	7.6	408	13.0	17.0
411252103041102	500	186.17	4,367	.80	678	.5	.3	4	9.0	687	18.0	17.6
411301102593501	157	104.88	4,260	1.2	680	7.3	7.7	83	7.5	313	13.0	13.5
411301102593502	340	108.99	4,260	1.0	680	5.7	6.6	74	7.7	363	20.0	15.5
411350103011501	198	169.22	4,336	1.1	678	7.2	7.7	85	7.6	448	4.0	14.5
411350103011502	317	169.04	4,336	1.0	678	8.6	6.1	61	7.6	420	4.0	10.5

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Hardness, water, mg/L as CaCO3 (00900)	Noncarb hardness, wat flt lab, mg/L as CaCO3 (00905)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)
CHEYENNE COUNTY												
410803103020001	260	93	71.9dc	19.6c	10.9c	1	35.3c	22	152@c	169@c	41.1c	.4
410805102560601	240	89	68.2c	15.6c	9.96c	.9	31.9c	22	101@c	147@c	36.4c	.5
410818103081901	98	--	25.9c	8.07c	8.77c	3	61.7c	55	253@c	168@c	5.48	1.2
410818103081902	36	--	13.2	.736	8.19	10	140	87	212@c	245@c	5.51	1.5
410857103025101	79	--	20.1	6.98	7.46d	5	94.1	70	206@c	206@c	8.10	1.0
410857103025102	12	--	3.06	1.08	5.58	15	120	93	210@c	209@c	3.96	1.2
410901103014801	170	29	45.7	13.6	8.08d	.8	22.7	21	139@	142@c	34.3	.7
411012102574101	180	42	56.5	9.55	8.53	.5	16.0	15	140@	139@c	16.4	.5
411012102574102	160	--	44.5	11.5	8.81d	.8	22.7	23	161@c	161@c	11.6	.7
411034103063001	160	6	48.3c	9.79c	7.15c	.6	17.1c	18	143@c	156@c	6.07	.7
411035103063001	38	--	10.1	3.02	8.37	6	91.4	80	193@c	193@c	11.7	1.0
411040102560601	190	51	55.0	12.9	9.55d	.3	9.69	9	117@c	140@c	28.6	.5
411040103041401	9	--	2.87	.514	7.30	18	125	94	210@c	212@c	6.71	1.3
411044103012601	100	--	25.7d	8.83	7.76	1	21.9	30	134@c	144@c	1.20	.8
411108102594001	140	--	38.2	10.1	8.11	.5	14.7	18	132@c	141@c	6.42	.7
411131102574901	200	56	55.6	15.7	10.6	.7	23.7	19	154@c	148@c	45.7	.6
411210102571301	250	47	87.5	8.10	8.01	.2	6.23	5	174@c	205@c	5.02	.2
411214103052001	90	--	23.0	7.79	7.64	1	31.5	41	144@c	145@c	2.86	1.0
411227103011701	80	--	21.5	6.27	7.27	2	37.4	48	126@c	121@c	7.13	1.1
411227103011702	110	--	28.0	9.66	8.77	2	40.7	42	144@c	143@c	4.33	1.0
411227103011703	87	--	21.8	7.82	9.28	2	42.3	48	151@c	151@c	3.73	1.0
411229102593401	93	--	24.1	7.94	9.98	2	51.4	51	174@c	149@c	9.46	1.1
411229102593402	--	--	31.0d	<.024d	18.1d	--	248d	--	577@c	582@c	16.1d	.6
411252103041101	130	--	36.8	9.65	8.95	1	33.5	34	110@c	137@c	18.8	1.0
411252103041102	8	--	3.15	.107	5.43	24	157	96	257@c	259@c	18.3	1.2
411301102593501	140	--	42.5d	7.63	7.53	.3	7.62	10	122@c	143@c	3.77	.4
411301102593502	66	--	16.6d	5.90	10.0	3	55.9	61	162@c	161@c	3.07	1.2
411350103011501	170	31	46.1	12.8	9.16	.8	22.7	22	139@c	138@c	34.6	.9
411350103011502	97	--	24.4	8.62	10.3	2	55.4	52	178@c	167@c	5.22	1.0

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L (00660)
CHEYENNE COUNTY												
410803103020001	59.7d	20.7	406	.55	--	<.04	--	--	10.1d	--	<.008	--
410805102560601	54.1d	45.4	389	.53	--	<.04	--	--	8.67d	--	<.008	--
410818103081901	60.1c	43.4	326	.44	--	<.04	--	--	2.14	--	E.005n	.212
410818103081902	66.3d	50.4	441	.60	.09	.07	7.03	1.59	1.65	.200	.061	.215
410857103025101	59.1d	47.9	380	.52	--	<.04	--	--	2.59	--	<.008	.193
410857103025102	62.7d	44.6	373	.51	--	<.04	--	--	1.14	--	<.008	.055
410901103014801	61.4d	14.7	301	.41	--	<.04	--	--	3.24	--	<.008	--
411012102574101	54.4	19.6	285	.39	--	<.04	--	--	4.43	--	<.008	.067
411012102574102	60.4d	19.3	291	.40	--	<.04	--	--	3.33	--	<.008	.055
411034103063001	53.3	12.2	258	.35	--	<.04	--	--	2.08	--	<.008	--
411035103063001	57.4d	31.4	335	.46	--	<.04	--	--	.93	--	E.004n	.153
411040102560601	55.7d	15.3	289	.39	--	<.04	--	--	3.86	--	<.008	.064
411040103041401	59.7d	46.3	382	.52	--	<.04	5.17	1.17	1.20	.095	.029	.083
411044103012601	60.3d	6.5	226	.31	--	<.04	--	--	1.44	--	<.008	--
411108102594001	57.7d	13.2	244	.33	--	<.04	--	--	2.25	--	<.008	--
411131102574901	60.2d	28.1	349	.47	--	<.04	--	--	4.37	--	<.008	--
411210102571301	50.7	11.7	344	.47	--	<.04	--	--	9.69d	--	<.008	.193
411214103052001	59.7d	10.6	238	.32	--	<.04	--	--	1.39	--	<.008	--
411227103011701	56.5d	24.2	243	.33	--	<.04	9.10	2.06	2.08	.079	.024	--
411227103011702	63.3d	43.0	295	.40	--	<.04	9.86	2.23	2.25	.062	.019	--
411227103011703	63.9d	17.9	267	.36	--	<.04	--	--	1.91	--	<.008	--
411229102593401	58.1d	33.1	298	.40	--	<.04	--	--	2.90	--	<.008	--
411229102593402	42.6d	30.2	--	--	.39	.31	6.29	1.42	1.93	1.68	.512	--
411252103041101	57.6d	29.4	291	.40	--	<.04	12.2	2.75	2.79	.108	.033	--
411252103041102	70.4d	60.3	477	.65	.07	.06	2.97	.67	1.04	1.22	.371	--
411301102593501	51.8d	10.5	227	.31	--	<.04	--	--	2.13	--	<.008	.104
411301102593502	62.2d	22.1	280	.38	--	<.04	--	--	1.30	--	<.008	--
411350103011501	58.8d	22.1	301	.41	--	<.04	--	--	2.36	--	<.008	.098
411350103011502	62.5d	32.1	311	.42	--	<.04	--	--	2.31	--	<.008	--

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Arsenic water, fltrd, ug/L (01000)	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Strontium, water, fltrd, ug/L (01080)	Tritium 2-sigma water unfltrd pCi/L (75985)	Tritium water unfltrd pCi/L (07000)
CHEYENNE COUNTY									
410803103020001	<.02	<2oc	4.4	122	<6	<.8	1,110	--	--
410805102560601	E.01n	<2oc	6.5	94	<6	<.8	783	--	--
410818103081901	.07	3	11.5	114c	<6c	10.1c	410c	--	--
410818103081902	.07	60	47.1	266	E5nv	<.8	213	--	--
410857103025101	.06	2oc	13.9	173	E4nv	2.9	280d	--	--
410857103025102	.02	Mnoc	23.9	226	<6	E.4n	66.4	1.9	1
410901103014801	<.02	<2oc	5.7	52	<6	<.8	639d	--	--
411012102574101	.02	<2oc	5.1	53	<6	<.8	416	--	--
411012102574102	.02	<2oc	6.0	56	<6	<.8	484d	1.9	9
411034103063001	E.01n	<2oc	7.4	66	<6	<.8	462	--	--
411035103063001	.05	2oc	13.4	218d	<6	1.5	193	--	--
411040102560601	.02	<2oc	5.3	33	<6	<.8	441d	--	--
411040103041401	.03	7oc	30.2	287	<6	<.8	69.7	1.9	M
411044103012601	<.02	Mnoc	7.9	50	<6	<.8	399	1.9	1
411108102594001	E.01n	Mnoc	5.8	53	E6nv	<.8	410	1.9	2
411131102574901	E.01n	<2oc	6.6	67	E5nv	<.8	636	--	--
411210102571301	.06	<2oc	2.4	36	<6	<.8	558	--	--
411214103052001	E.01n	E1noc	10.9	63dv	<6	E.8n	330	1.9	M
411227103011701	E.01n	E1noc	11.0	62	<6	<.8	264	1.9	-1
411227103011702	E.01n	Mnoc	10.7	81	<6	<.8	414	1.9	M
411227103011703	<.02	Mnoc	10.9	82	<6	<.8	342	1.9	-1
411229102593401	E.01n	E1noc	10.3	90	<6	<.8	353	1.9	3
411229102593402	<.02	1960d	6.3d	73d	<19d	<2.4d	567d	--	--
411252103041101	<.02	E1noc	8.9	77	<6	<.8	534	1.9	2
411252103041102	E.01n	60	28.6	423d	<6	<.8	53.0	--	--
411301102593501	.03	E1noc	3.5	18	<6	<.8	357	1.9	5
411301102593502	E.01n	Mnoc	11.9	138	<6	<.8	280	--	--
411350103011501	.03	<2oc	7.1	63	E4nv	<.8	542	1.9	M
411350103011502	E.01n	Mnoc	9.8	96	<6	.9	370	--	--

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

Value qualifier codes used in this table:
@ -- Holding time exceeded
c -- See laboratory comment
d -- Diluted sample: method hi range exceeded
n -- Below the LRL and above the LT-MDL
o -- Result determined by alternate method
v -- Analyte detected in laboratory blank

(Station Name: indicates location by township, range, and section. Geologic unit: 110QRNR, Quaternary system deposits, undifferentiated; 110SDGV, Quaternary sand and gravel deposits, undifferentiated; 112SDGV, Pleistocene sand and gravel deposits.)

COUNTIES.-- Sarpy and Saunders

MULTIPLE STATION ANALYSES

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
	SARPY COUNTY					
410159096181001	12N 10E 4CDAA1	41 01 59 N	096 18 10 W	112SDGV	09-09-04	1150
410233096181801	12N 10E 4BADB1	41 02 33 N	096 18 18 W	--	09-09-04	1040
410312096183901	13N 10E32ADDD1 M30R	41 03 12 N	096 18 39 W	110SDGV	09-09-04	1400
410324096191801	13N 10E32BADC1	41 03 24 N	096 19 18 W	112SDGV	09-09-04	1300
	SAUNDERS COUNTY					
410303096192901	13N 10E32CABC1 M36R	41 03 03 N	096 19 29 W	112SDGV	09-09-04	0930
410427096202501	13N 10E19CDDD1 M17R	41 04 27 N	096 20 25 W	110SDGV	09-08-04	1245
410612096220601	13N 9E14AAAA1	41 06 11 N	096 22 06 W	110QRNR	09-08-04	0900
410703096205301	13N 10E 7BBBB1	41 07 03 N	096 20 53 W	110QRNR	09-08-04	1130
410707096220601	13N 9E 2DDDD1	41 07 07 N	096 22 06 W	110QRNR	09-08-04	1030

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)
					SARPY COUNTY							
410159096181001	--	9.32	1,052	8.0	45	738	7.3	.1	.0	7.7	505	11.4
410233096181801	--	.00	1,052	8.0	30	738	6.9	.1	.0	7.7	517	11.5
410312096183901	46.00	8.27	1,056	8.0	20	738	4.8	.1	.0	7.8	431	9.4
410324096191801	--	20.33	1,060	7.0	50	738	7.4	.1	.0	7.7	530	12.7
					SAUNDERS COUNTY							
410303096192901	86.	11.88	1,056	8.0	40	738	5.3	.1	.0	7.8	376	17.4
410427096202501	56.	16.20	1,065	8.0	30	739	4.3	.1	.0	7.8	361	10.0
410612096220601	98.00	8.93	1,075	8.0	45	739	--	.1	.0	7.2	626	12.3
410703096205301	96.00	8.75	1,075	7.0	30	739	--	.1	.0	7.4	577	15.4
410707096220601	130.00	9.64	1,077	6.5	40	739	--	.1	.0	7.1	787	12.7

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)
					SARPY COUNTY							
410159096181001	210	57.3	15.7	8.16	.7	23.3	19	193@c	11.5	.4	30.4	51.4
410233096181801	210	60.7	14.9	7.47	.7	23.8	19	196@c	12.1	.3	29.2	55.0
410312096183901	160	39.7	15.0	8.05	1	27.8	26	150@c	14.9	.3	12.7	43.4
410324096191801	210	60.3	13.4	7.64	.9	30.3	23	189@c	13.3	.4	33.8	65.7
					SAUNDERS COUNTY							
410303096192901	150	43.4	10.7	9.95	.6	15.9	17	156@c	7.89	.4	41.9	26.2
410427096202501	140	37.6	11.1	6.21	.7	17.8	21	149@c	7.26	.4	36.7	26.2
410612096220601	--	--	--	--	--	--	--	--	--	--	--	--
410703096205301	--	--	--	--	--	--	--	--	--	--	--	--
410707096220601	--	--	--	--	--	--	--	--	--	--	--	--

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)
SARPY COUNTY												
410159096181001	315	.43	9	131	<.4	47	<3	E3n	<3	E3n	E4n	E.07n
410233096181801	323	.44	8	182	<.4	62	<3	E3n	<3	E3n	182	E.04n
410312096183901	254	.34	3	165	<.4	53	<3	E3n	<3	<5	405	<.08
410324096191801	339	.46	5	161	<.4	62	<3	E3n	<3	E3n	10	E.05n
SAUNDERS COUNTY												
410303096192901	250	.34	8	70.0	<.4	52	<3	<4	<3	E3n	52	.09
410427096202501			12	63.3	<.4	56	<3	<4	<3	36	8	--
410612096220601	--	--	--	--	--	--	--	--	--	--	--	--
410703096205301	--	--	--	--	--	--	--	--	--	--	--	--
410707096220601	--	--	--	--	--	--	--	--	--	--	--	--

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)
SARPY COUNTY												
410159096181001	17	252	<.02	E2n	M	3	<3	373	6	4	E.05t	<.05
410233096181801	18	884	<.02	<4	M	7	<3	368	6	E2n	.07	E.02t
410312096183901	14	726	<.02	<4	M	<3	<3	304	<5	5	E.04t	<.05
410324096191801	17	29.8	<.02	E2n	M	<3	<3	366	5	3	E.05t	<.05
SAUNDERS COUNTY												
410303096192901	20	27.6	<.02	<4	M	<3	<3	321	10	E2n	.14	.06
410427096202501	15	74.6	<.02	E3n	M	3	<3	309	8	26	.26	.11
410612096220601	--	--	--	--	--	--	--	--	--	--	--	--
410703096205301	--	--	--	--	--	--	--	--	--	--	--	--
410707096220601	--	--	--	--	--	--	--	--	--	--	--	--

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	Ametryn water, fltrd, ug/L (38401)	Atrazine, water, fltrd, ug/L (39632)	Bromacil, water, fltrd, ug/L (04029)	Butachlor, water, fltrd, ug/L (04026)	Butylate, water, fltrd, ug/L (04028)	Carboxin, water, fltrd, ug/L (04027)	Cyanazine, water, fltrd, ug/L (04041)	Cycloate, water, fltrd, ug/L (04031)	Diphenamid, water, fltrd, ug/L (04033)	Hexazinone, water, fltrd, ug/L (04025)
SARPY COUNTY												
410159096181001	<.05	<.05	E.01t	.34	<.05	<.05	<.05	<.05	<.20	<.05	<.05	<.05
410233096181801	<.05	<.05	E.01t	.98	<.05	<.05	<.05	<.05	<.20	<.05	<.05	<.05
410312096183901	<.05	<.05	<.05	.33	<.05	<.05	<.05	<.05	<.20	<.05	<.05	<.05
410324096191801	<.05	<.05	<.05	.30	<.05	<.05	<.05	<.05	<.20	<.05	<.05	<.05
SAUNDERS COUNTY												
410303096192901	<.05	<.05	E.01t	.72	<.05	<.05	<.05	<.05	<.20	<.05	<.05	<.05
410427096202501	E.03t	<.05	E.01t	1.34	<.05	<.05	<.05	<.05	<.20	<.05	<.05	<.05
410612096220601	--	--	--	--	--	--	--	--	--	--	--	--
410703096205301	--	--	--	--	--	--	--	--	--	--	--	--
410707096220601	--	--	--	--	--	--	--	--	--	--	--	--

ASHLAND GROUND-WATER QUALITY STUDY—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propachlor, water, fltrd, ug/L (04024)	Propazine, water, fltrd, ug/L (38535)	Simazine, water, fltrd, ug/L (04035)	Simatryn, water, fltrd, ug/L (04030)	Terbacil, water, fltrd, ug/L (04032)	Trifluralin, water, fltrd, ug/L (04023)	Vernolate, water, fltrd, ug/L (04034)	Xylenes water unfltrd ug/L (81551)
SARPY COUNTY												
410159096181001	E.02t	<.05	E.01t	<.05	<.05	E.01t	<.05	<.05	<.05	<.05	<.05	--
410233096181801	.11	<.05	E.01t	<.05	<.05	E.02t	<.05	<.05	<.05	<.05	<.05	--
410312096183901	E.02t	<.05	E.01t	<.05	<.05	E.01t	<.05	<.05	<.05	<.05	<.05	--
410324096191801	E.02t	<.05	E.01t	<.05	<.05	Mt	<.05	<.05	<.05	<.05	<.05	--
SAUNDERS COUNTY												
410303096192901	.19	<.05	E.01t	<.05	<.05	E.01t	<.05	<.05	<.05	<.05	<.05	--
410427096202501	.56	<.05	E.01t	<.05	<.05	E.02t	<.05	<.05	<.05	<.05	<.05	--
410612096220601	--	--	--	--	--	--	--	--	--	--	--	<.2
410703096205301	--	--	--	--	--	--	--	--	--	--	--	<.2
410707096220601	--	--	--	--	--	--	--	--	--	--	--	<.2

MULTIPLE STATION ANALYSES—CONTINUED

Station number	1,1,1,2-Tetrachloroethane, water, unfltrd ug/L (77562)	1,1,1-Trichloroethane, water, unfltrd ug/L (34506)	1,1,2,2-Tetrachloroethane, water, unfltrd ug/L (34516)	CFC-113 water unfltrd ug/L (77652)	1,1,2-Trichloroethane, water, unfltrd ug/L (34511)	1,1-Dichloroethane, water unfltrd ug/L (34496)	1,1-Dichloroethene, water, unfltrd ug/L (34501)	1,1-Dichloropropene water unfltrd ug/L (77168)	1,2,3-Trichlorobenzene water unfltrd ug/L (77613)	1,2,3-Trichloropropane water unfltrd ug/L (77443)	1,2,4-Trichlorobenzene water unfltrd ug/L (34551)	1,2,4-Trimethylbenzene water unfltrd ug/L (77222)
SARPY COUNTY												
410159096181001	--	--	--	--	--	--	--	--	--	--	--	--
410233096181801	--	--	--	--	--	--	--	--	--	--	--	--
410312096183901	--	--	--	--	--	--	--	--	--	--	--	--
410324096191801	--	--	--	--	--	--	--	--	--	--	--	--
SAUNDERS COUNTY												
410303096192901	--	--	--	--	--	--	--	--	--	--	--	--
410427096202501	--	--	--	--	--	--	--	--	--	--	--	--
410612096220601	<.2	<.1	<.2	<.1	<.2	<.1	<.1	<.2	<.2	<.2	<.2	<.2
410703096205301	<.2	<.1	<.2	<.1	<.2	<.1	<.1	<.2	<.2	<.2	<.2	<.2
410707096220601	<.2	<.1	<.2	<.1	<.2	<.1	<.1	<.2	<.2	<.2	<.2	<.2

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Dibromochloropropane water unfltrd ug/L (82625)	1,2-Dibromoethane, water, unfltrd ug/L (77651)	1,2-Dichlorobenzene water unfltrd ug/L (34536)	1,2-Dichloroethane, water, unfltrd ug/L (32103)	1,2-Dichloropropane water unfltrd ug/L (34541)	1,3,5-Trimethylbenzene water unfltrd ug/L (77226)	1,3-Dichlorobenzene water unfltrd ug/L (34566)	1,3-Dichloropropane water unfltrd ug/L (77173)	1,4-Dichlorobenzene water unfltrd ug/L (34571)	2,2-Dichloropropane water unfltrd ug/L (77170)	2-Chlorotoluene water unfltrd ug/L (77275)	4-Chlorotoluene water unfltrd ug/L (77277)
SARPY COUNTY												
410159096181001	--	--	--	--	--	--	--	--	--	--	--	--
410233096181801	--	--	--	--	--	--	--	--	--	--	--	--
410312096183901	--	--	--	--	--	--	--	--	--	--	--	--
410324096191801	--	--	--	--	--	--	--	--	--	--	--	--
SAUNDERS COUNTY												
410303096192901	--	--	--	--	--	--	--	--	--	--	--	--
410427096202501	--	--	--	--	--	--	--	--	--	--	--	--
410612096220601	<.5	<.2	<.1	<.2	<.1	<.2	<.1	<.2	<.1	<.2	<.2	<.2
410703096205301	<.5	<.2	<.1	<.2	<.1	<.2	<.1	<.2	<.1	<.2	<.2	<.2
410707096220601	<.5	<.2	<.1	<.2	<.1	<.2	<.1	<.2	<.1	<.2	<.2	<.2

MULTIPLE STATION ANALYSES—CONTINUED

Station number	4-Isopropyltoluene water unfltrd ug/L (77356)	Acrylonitrile water unfltrd ug/L (34215)	Benzene water unfltrd ug/L (34030)	Bromobenzene water unfltrd ug/L (81555)	Bromochloromethane water unfltrd ug/L (77297)	Bromodichloromethane water unfltrd ug/L (32101)	Bromomethane water unfltrd ug/L (34413)	Chlorobenzene water unfltrd ug/L (34301)	Chloroethane, water, unfltrd ug/L (34311)	Chloromethane water unfltrd ug/L (34418)	cis-1,2-Dichloroethene, water, unfltrd ug/L (77093)	cis-1,3-Dichloropropene water unfltrd ug/L (34704)
SARPY COUNTY												
410159096181001	--	--	--	--	--	--	--	--	--	--	--	--
410233096181801	--	--	--	--	--	--	--	--	--	--	--	--
410312096183901	--	--	--	--	--	--	--	--	--	--	--	--
410324096191801	--	--	--	--	--	--	--	--	--	--	--	--
SAUNDERS COUNTY												
410303096192901	--	--	--	--	--	--	--	--	--	--	--	--
410427096202501	--	--	--	--	--	--	--	--	--	--	--	--
410612096220601	<.2	<2.5	<.1	<.2	<.2	<.1	<.3	<.1	<.2	<.2mc	<.1	<.2
410703096205301	<.2	<2.5	<.1	<.2	<.2	<.1	<.3	<.1	<.2	<.2mc	<.1	<.2
410707096220601	<.2	<2.5	<.1	<.2	<.2	<.1	<.3	<.1	<.2	<.2mc	<.1	<.2

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Dibromochloromethane water unfltrd ug/L (32105)	Dibromomethane water unfltrd ug/L (30217)	Dichlorodifluoromethane wat unf ug/L (34668)	Dichloromethane water unfltrd ug/L (34423)	Ethylbenzene water unfltrd ug/L (34371)	Hexachlorobutadiene, water, unfltrd ug/L (39702)	Isopropylbenzene water unfltrd ug/L (77223)	Naphthalene, water, unfltrd ug/L (34696)	n-Butyl benzene water unfltrd ug/L (77342)	n-propylbenzene water unfltrd ug/L (77224)	sec-Butylbenzene water unfltrd ug/L (77350)	Styrene water unfltrd ug/L (77128)
SARPY COUNTY												
410159096181001	--	--	--	--	--	--	--	--	--	--	--	--
410233096181801	--	--	--	--	--	--	--	--	--	--	--	--
410312096183901	--	--	--	--	--	--	--	--	--	--	--	--
410324096191801	--	--	--	--	--	--	--	--	--	--	--	--
SAUNDERS COUNTY												
410303096192901	--	--	--	--	--	--	--	--	--	--	--	--
410427096202501	--	--	--	--	--	--	--	--	--	--	--	--
410612096220601	<.2	<.2	<.2mc	<.2	<.1	<.2	<.2	<.5	<.2	<.2	<.2	<.1
410703096205301	<.2	<.2	<.2mc	<.2	<.1	<.2	<.2	<.5	<.2	<.2	<.2	<.1
410707096220601	<.2	<.2	<.2mc	<.2	<.1	<.2	<.2	<.5	<.2	<.2	<.2	<.1

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Methyl t-butyl ether, water, unfltrd ug/L (78032)	tert-Butylbenzene water unfltrd ug/L (77353)	Tetrachloroethene, water, unfltrd ug/L (34475)	Tetrachloromethane water unfltrd ug/L (32102)	Toluene water unfltrd ug/L (34010)	trans-1,2-Dichloroethene, water, unfltrd ug/L (34546)	trans-1,3-Dichloropropene water unfltrd ug/L (34699)	Tribromomethane water unfltrd ug/L (32104)	Trichloroethene, water, unfltrd ug/L (39180)	Trichlorofluoromethane water unfltrd ug/L (34488)	Trichloromethane water unfltrd ug/L (32106)	Vinyl chloride, water, unfltrd ug/L (39175)
SARPY COUNTY												
410159096181001	--	--	--	--	--	--	--	--	--	--	--	--
410233096181801	--	--	--	--	--	--	--	--	--	--	--	--
410312096183901	--	--	--	--	--	--	--	--	--	--	--	--
410324096191801	--	--	--	--	--	--	--	--	--	--	--	--
SAUNDERS COUNTY												
410303096192901	--	--	--	--	--	--	--	--	--	--	--	--
410427096202501	--	--	--	--	--	--	--	--	--	--	--	--
410612096220601	<.2	<.2	<.1	<.2	<.1	<.1	<.2	<.2	<.1	<.2	<.1	<.2
410703096205301	<.2	<.2	<.1	<.2	<.1	<.1	<.2	<.2	<.1	<.2	<.1	<.2
410707096220601	<.2	<.2	<.1	<.2	<.1	<.1	<.2	<.2	<.1	<.2	<.1	<.2

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

Value qualifier codes used in this table:
@ -- Holding time exceeded
c -- See laboratory comment
m -- Value is highly variable by this method
n -- Below the LRL and above the LT-MDL
t -- Below the long-term MDL

(Station Name: indicates location by township, range, and section. Geologic unit: 110QRNR, Quaternary system deposits, undifferentiated; 112SDGV, Pleistocene sand and gravel deposits.)

COUNTIES.--Burt, Dakota, Douglas, Sarpy, and Washington

MULTIPLE STATION ANALYSES

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
BURT COUNTY						
414020096130601	20N 11E30DCAA1	41 40 20 N	096 13 06 W	112SDGV	07-29-04	1055
414200096133801	20N 11E18CDBC1	41 42 00 N	096 13 38 W	110QRNR	08-02-04	1430
414601096130001	21N 11E30A 1	41 46 01 N	096 13 00 W	110QRNR	07-29-04	1240
414820096082301	21N 11E11DBBD1	41 48 20 N	096 08 23 W	110QRNR	08-04-04	1650
DAKOTA COUNTY						
422301096262201	28N 9E20CBDD1	42 23 01 N	096 26 22 W	110QRNR	08-02-04	1225
422524096332801	28N 7E 1DBDD1	42 25 38 N	096 33 20 W	110QRNR	08-04-04	1310
DOUGLAS COUNTY						
411444096210001	15N 9E25C 1	41 14 44 N	096 21 00 W	112SDGV	08-06-04	1145
411855095551901	16N 13E35BDCB1	41 18 55 N	095 55 19 W	112SDGV	07-27-04	1200
SARPY COUNTY						
410032096105501	12N 11E16AC 1	41 00 32 N	096 10 57 W	112SDGV	07-27-04	0850
410303096063901	13N 12E31CA 1	41 03 02 N	096 06 38 W	112SDGV	07-30-04	1150
410336096053501	13N 12E29DC 1	41 03 36 N	096 05 35 W	112SDGV	08-05-04	1510
410341096053101	13N 12E29DDB 1	41 03 41 N	096 05 31 W	112SDGV	08-05-04	1545
410406096050901	13N 12E29BA 1	41 04 05 N	096 05 09 W	112SDGV	08-05-04	1350
410457095523501	13N 14E19CABD1	41 04 57 N	095 52 49 W	112SDGV	07-30-04	0945
WASHINGTON COUNTY						
412716095584201	17N 13E 8CCAA1	41 27 16 N	095 58 42 W	--	07-30-04	1430
412735095570101	17N 13E 9ACDA1	41 27 35 N	095 57 01 W	112SDGV	07-30-04	1530
413959096074901	20N 11E36ABBB1	41 39 59 N	096 07 49 W	--	07-30-04	1800

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	Altitude of land surface feet (72000)	Pump or flow period prior to sampling, minutes (72004)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Nitrite + nitrate water fltrd, mg/L as N (00631)	CIAT, water, fltrd, ug/L (04040)
BURT COUNTY												
414020096130601	63	1,052	30	732	1.0	10	7.1	621	24.0	12.0	<.06	--
414200096133801	168	1,050	30	729	6.2	71	7.6	1,140	35.3	19.7	E.04n	--
414601096130001	95	1,030	30	732	.2	2	7.1	739	28.0	11.6	<.06	--
414820096082301	122	1,035	20	731	.1	.0	7.4	804	25.0	11.8	<.06	--
DAKOTA COUNTY												
422301096262201	105	1,080	30	729	.1	1	7.0	1,140	35.3	11.6	<.06	--
422524096332801	130	1,102	30	731	.1	.0	7.3	1,170	25.0	11.8	<.06	--
DOUGLAS COUNTY												
411444096210001	50	1,119	--	736	.1	.0	7.7	354	24.9	13.6	.10	--
411855095551901	80	979	30	735	.1	1	7.0	1,470	27.5	14.4	<.06	--
SARPY COUNTY												
410032096105501	46	1,020	30	735	.2	2	7.1	600	18.4	13.0	.72	--
410303096063901	70	1,002	30	731	.1	1	7.6	467	24.1	17.1	<.06	--
410336096053501	49	1,001	30	737	4.9	47	7.2	450	34.0	12.5	4.25	.08
410341096053101	45	1,001	30	737	4.8	48	7.1	513	34.0	13.3	3.62	--
410406096050901	45	1,011	30	737	3.0	33	6.9	783	34.0	18.8	16.2d	--
410457095523501	97	960	30	731	4.0	42	7.2	1,020	24.0	14.8	<.06	--
WASHINGTON COUNTY												
412716095584201	--	944	30	731	4.9	48	7.5	1,180	26.0	12.0	E.03n	--
412735095570101	82	992	30	731	.1	1	7.1	1,150	28.0	12.0	.11	--
413959096074901	--	1,015	45	731	.2	2	7.2	1,250	26.0	12.1	<.06	--

PAPIO-MISSOURI STUDY—WATER-QUALITY AQUIFER ASSESSMENT—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	CEAT, water, fltrd, ug/L (04038)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	Ametryn water, fltrd, ug/L (38401)	Atra-zine, water, fltrd, ug/L (39632)	Broma-cil, water, fltrd, ug/L (04029)	Buta-chlor, water, fltrd, ug/L (04026)	Butyl-ate, water, fltrd, ug/L (04028)	Car-boxin, water, fltrd, ug/L (04027)	Cyana-zine, water, fltrd, ug/L (04041)	Cyclo-ate, water, fltrd, ug/L (04031)	Diphen-amid, water, fltrd, ug/L (04033)
BURT COUNTY												
414020096130601	--	--	--	--	--	--	--	--	--	--	--	--
414200096133801	--	--	--	--	--	--	--	--	--	--	--	--
414601096130001	--	--	--	--	--	--	--	--	--	--	--	--
414820096082301	--	--	--	--	--	--	--	--	--	--	--	--
DAKOTA COUNTY												
422301096262201	--	--	--	--	--	--	--	--	--	--	--	--
422524096332801	--	--	--	--	--	--	--	--	--	--	--	--
DOUGLAS COUNTY												
411444096210001	--	--	--	--	--	--	--	--	--	--	--	--
411855095551901	--	--	--	--	--	--	--	--	--	--	--	--
SARPY COUNTY												
410032096105501	--	--	--	--	--	--	--	--	--	--	--	--
410303096063901	--	--	--	--	--	--	--	--	--	--	--	--
410336096053501	<.05	<.05	<.05	<.05	.06	<.05	<.05	<.05	<.05	<.20	<.05	<.05
410341096053101	--	--	--	--	--	--	--	--	--	--	--	--
410406096050901	--	--	--	--	--	--	--	--	--	--	--	--
410457095523501	--	--	--	--	--	--	--	--	--	--	--	--
WASHINGTON COUNTY												
412716095584201	--	--	--	--	--	--	--	--	--	--	--	--
412735095570101	--	--	--	--	--	--	--	--	--	--	--	--
413959096074901	--	--	--	--	--	--	--	--	--	--	--	--

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Hexa-zinone, water, fltrd, ug/L (04025)	Metola-chlor, water, fltrd, ug/L (39415)	Metri-buzin, water, fltrd, ug/L (82630)	Prome-ton, water, fltrd, ug/L (04037)	Prome-tryn, water, fltrd, ug/L (04036)	Propa-chlor, water, fltrd, ug/L (04024)	Propa-zine, water, fltrd, ug/L (38535)	Sima-zine, water, fltrd, ug/L (04035)	Sima-tryn, water, fltrd, ug/L (04030)	Terba-cil, water, fltrd, ug/L (04032)	Tria-zine screen, wat flt ELISA, ug/L as atrazin (34756)	Tri-flur-alin, water, fltrd, ug/L (04023)
BURT COUNTY												
414020096130601	--	--	--	--	--	--	--	--	--	--	<.1	--
414200096133801	--	--	--	--	--	--	--	--	--	--	<.1	--
414601096130001	--	--	--	--	--	--	--	--	--	--	<.1	--
414820096082301	--	--	--	--	--	--	--	--	--	--	<.1	--
DAKOTA COUNTY												
422301096262201	--	--	--	--	--	--	--	--	--	--	<.1	--
422524096332801	--	--	--	--	--	--	--	--	--	--	<.1	--
DOUGLAS COUNTY												
411444096210001	--	--	--	--	--	--	--	--	--	--	<.1	--
411855095551901	--	--	--	--	--	--	--	--	--	--	<.1	--
SARPY COUNTY												
410032096105501	--	--	--	--	--	--	--	--	--	--	--	--
410303096063901	--	--	--	--	--	--	--	--	--	--	--	--
410336096053501	<.05	E.03t	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.1	<.05
410341096053101	--	--	--	--	--	--	--	--	--	--	--	--
410406096050901	--	--	--	--	--	--	--	--	--	--	--	--
410457095523501	--	--	--	--	--	--	--	--	--	--	<.1	--
WASHINGTON COUNTY												
412716095584201	--	--	--	--	--	--	--	--	--	--	<.1	--
412735095570101	--	--	--	--	--	--	--	--	--	--	<.1	--
413959096074901	--	--	--	--	--	--	--	--	--	--	<.1	--

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Vernolate, water, fltrd, ug/L (04034)
BURT COUNTY	
414020096130601	--
414200096133801	--
414601096130001	--
414820096082301	--
DAKOTA COUNTY	
422301096262201	--
422524096332801	--
DOUGLAS COUNTY	
411444096210001	--
411855095551901	--
SARPY COUNTY	
410032096105501	--
410303096063901	--
410336096053501	<.05
410341096053101	--
410406096050901	--
410457095523501	--
WASHINGTON COUNTY	
412716095584201	--
412735095570101	--
413959096074901	--

Remark codes used in this table:
< -- Less than
E -- Estimated value

Value qualifier codes used in this table:
d -- Diluted sample: method hi range exceeded
n -- Below the LRL and above the LT-MDL
t -- Below the long-term MDL

PAPIO-MISSOURI STUDY—WATER QUALITY FROM MONITORING WELL NESTS

(Station Name: indicates location by township, range, and section. Geologic unit: 112SDGV, Pleistocene sand and gravel deposits; 211DKOT, Upper Cretaceous Dakota Formation deposits.)

COUNTIES.--Burt, Dakota, Douglas, Sarpy, Thurston, and Washington

MULTIPLE STATION ANALYSES

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
		BURT COUNTY				
414700096134901	21N 11E19BBBC1	41 47 00 N	096 13 49 W	211DKOT	10-29-03	1740
	21N 11E19BBBC1	41 47 00 N	096 13 49 W	211DKOT	12-03-03	1755
	21N 11E19BBBC1	41 47 00 N	096 13 49 W	211DKOT	03-19-04	0920
	21N 11E19BBBC1	41 47 00 N	096 13 49 W	211DKOT	05-05-04	1720
414700096134902	21N 11E19BBBC2	41 47 00 N	096 13 49 W	211DKOT	10-29-03	1820
	21N 11E19BBBC2	41 47 00 N	096 13 49 W	211DKOT	12-03-03	1830
	21N 11E19BBBC2	41 47 00 N	096 13 49 W	211DKOT	03-19-04	0955
	21N 11E19BBBC2	41 47 00 N	096 13 49 W	211DKOT	05-05-04	1755
414700096134903	21N 11E19BBBC3	41 47 00 N	096 13 49 W	211DKOT	10-29-03	1850
	21N 11E19BBBC3	41 47 00 N	096 13 49 W	211DKOT	12-03-03	1850
	21N 11E19BBBC3	41 47 00 N	096 13 49 W	211DKOT	03-19-04	1015
	21N 11E19BBBC3	41 47 00 N	096 13 49 W	211DKOT	05-05-04	1820
		DAKOTA COUNTY				
422035096281901	27N 8E 1ACCC1	42 20 35 N	096 28 19 W	112SDGV	10-29-03	1355
	27N 8E 1ACCC1	42 20 35 N	096 28 19 W	112SDGV	12-03-03	1405
	27N 8E 1ACCC1	42 20 35 N	096 28 19 W	112SDGV	03-18-04	1555
	27N 8E 1ACCC1	42 20 35 N	096 28 19 W	112SDGV	05-05-04	1400
422035096281902	27N 8E 1ACCC2	42 20 35 N	096 28 19 W	112SDGV	10-29-03	1440
	27N 8E 1ACCC2	42 20 35 N	096 28 19 W	112SDGV	12-03-03	1430
	27N 8E 1ACCC2	42 20 35 N	096 28 19 W	112SDGV	03-18-04	1625
	27N 8E 1ACCC2	42 20 35 N	096 28 19 W	112SDGV	05-05-04	1430
422035096281903	27N 8E 1ACCC3	42 20 35 N	096 28 19 W	112SDGV	10-29-03	1505
	27N 8E 1ACCC3	42 20 35 N	096 28 19 W	112SDGV	12-03-03	1450
	27N 8E 1ACCC3	42 20 35 N	096 28 19 W	112SDGV	03-18-04	1645
	27N 8E 1ACCC3	42 20 35 N	096 28 19 W	112SDGV	05-05-04	1445
		DOUGLAS COUNTY				
411231096193201	14N 10E 5CBDD1	41 12 31 N	096 19 32 W	112SDGV	10-28-03	1745
	14N 10E 5CBDD1	41 12 31 N	096 19 32 W	112SDGV	12-02-03	1045
	14N 10E 5CBDD1	41 12 31 N	096 19 32 W	112SDGV	03-16-04	1720
	14N 10E 5CBDD1	41 12 31 N	096 19 32 W	112SDGV	05-07-04	1340
411231096193202	14N 10E 5CBDD2	41 12 31 N	096 19 32 W	112SDGV	10-28-03	1815
	14N 10E 5CBDD2	41 12 31 N	096 19 32 W	112SDGV	12-02-03	1135
	14N 10E 5CBDD2	41 12 31 N	096 19 32 W	112SDGV	03-16-04	1740
	14N 10E 5CBDD2	41 12 31 N	096 19 32 W	112SDGV	05-07-04	1405
411231096193203	14N 10E 5CBDB3	41 12 31 N	096 19 32 W	112SDGV	10-28-03	1830
	14N 10E 5CBDB3	41 12 31 N	096 19 32 W	112SDGV	12-02-03	1200
	14N 10E 5CBDB3	41 12 31 N	096 19 32 W	112SDGV	03-16-04	1755
	14N 10E 5CBDB3	41 12 31 N	096 19 32 W	112SDGV	05-07-04	1420
412151096180801	16N 10E16BAAA1	41 21 51 N	096 18 08 W	112SDGV	10-30-03	1650
	16N 10E16BAAA1	41 21 51 N	096 18 08 W	112SDGV	12-05-03	1200
	16N 10E16BAAA1	41 21 51 N	096 18 08 W	112SDGV	03-16-04	1520
	16N 10E16BAAA1	41 21 51 N	096 18 08 W	112SDGV	05-07-04	1015

PAPIO-MISSOURI STUDY—WATER QUALITY FROM MONITORING WELL NESTS—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)
BURT COUNTY												
414700096134901	171	46.43	1,135	5.0	49	718	--	.1	1	7.1	1,050	5.7
	171	46.72	1,135	6.0	41	733	--	M	.0	6.9	1,200	.5
	171	46.82	1,135	6.0	45	732	24	.1	1	6.9	987	8.0
	171	46.39	1,135	6.0	45	723	--	.1	.0	7.0	964	32.2
414700096134902	139	46.60	1,135	6.0	30	718	--	.2	2	7.1	1,020	5.7
	139	46.42	1,135	6.0	30	733	--	M	.0	6.9	1,120	.5
	139	46.52	1,135	6.0	6	732	30	.4	4	7.0	935	8.0
	139	46.08	1,135	6.0	30	723	--	.2	2	7.1	930	32.2
414700096134903	80	39.69	1,135	6.0	15	718	--	7.6	76	7.2	866	5.7
	80	39.89	1,135	6.0	15	733	--	7.6	73	7.0	877	.5
	80	40.38	1,135	6.0	20	732	26	8.1	79	7.1	857	8.0
	80	40.04	1,135	6.0	20	723	--	8.8	87	7.2	876	32.2
DAKOTA COUNTY												
422035096281901	129	23.48	1,092	7.0	30	718	--	.2	2	7.1	1,190	5.7
	129	23.53	1,092	7.0	30	733	--	.1	.0	6.9	1,210	.5
	129	23.64	1,092	7.0	35	732	--	.1	.0	7.1	1,210	7.0
	129	23.30	1,092	7.0	30	723	--	.1	1	7.1	1,230	29.9
422035096281902	93	23.53	1,092	6.0	23	718	--	.4	4	7.1	885	5.7
	93	23.59	1,092	6.0	23	733	--	.1	1	6.9	893	.5
	93	23.71	1,092	6.0	30	732	--	.7	6	7.1	897	7.0
	93	23.37	1,092	6.0	25	723	--	.9	9	7.1	911	29.9
422035096281903	53	23.33	1,092	6.0	10	718	--	1.1	11	7.1	1,040	5.7
	53	23.38	1,092	6.0	10	733	--	.5	5	6.9	1,040	.5
	53	23.44	1,092	6.0	15	732	--	1.4	14	7.1	1,070	7.0
	53	23.14	1,092	6.0	12	723	--	1.5	15	7.1	1,110	29.9
DOUGLAS COUNTY												
411231096193201	98	6.83	1,107	7.0	25	726	--	.3	3	7.2	561	16.0
	98	6.33	1,107	7.0	25	737	31	M	.0	7.1	552	8.0
	98	4.78	1,107	7.0	30	732	--	.2	2	7.5	565	3.5
	98	5.85	1,107	7.0	30	731	--	.1	.0	7.6	551	22.8
411231096193202	58	6.83	1,107	7.0	15	726	--	.5	5	7.2	560	16.0
	58	6.43	1,107	7.0	15	737	36	M	.0	7.0	555	8.0
	58	4.79	1,107	7.0	20	732	--	.1	.0	7.5	556	3.5
	58	5.93	1,107	7.0	22	731	--	.1	.0	7.5	549	22.8
411231096193203	22	6.67	1,107	7.0	5	726	--	3.3	33	6.8	458	16.0
	22	6.16	1,107	7.0	5	737	64	.3	3	6.6	484	8.0
	22	4.65	1,107	7.0	15	732	--	.4	4	7.1	487	3.5
	22	5.72	1,107	7.0	10	731	--	.5	5	7.2	438	22.8
412151096180801	33	10.32	1,136	7.0	10	719	--	.3	3	7.2	555	8.7
	33	9.82	1,136	7.0	10	742	--	.8	8	7.0	555	-.5
	33	8.34	1,136	7.0	20	732	--	.5	5	7.4	556	1.5
	33	8.75	1,136	7.0	15	731	21	.6	6	7.3	553	20.8

PAPIO-MISSOURI STUDY—WATER QUALITY FROM MONITORING WELL NESTS—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)
BURT COUNTY												
414700096134901	12.1	--	--	--	--	--	--	--	--	--	--	--
	12.0	--	--	--	--	--	--	--	--	--	--	--
	12.0	460	131c	31.8c	1	53.6c	108@c	26.2c	18.9	209c	--	--
	12.3	--	--	--	--	--	--	--	--	--	--	<.04
414700096134902	12.1	--	--	--	--	--	--	--	--	--	--	--
	12.0	--	--	--	--	--	--	--	--	--	--	--
	12.0	440	125c	31.1c	1	49.0c	147@c	23.9c	19.7	188c	--	--
	12.3	--	--	--	--	--	--	--	--	--	--	<.04
414700096134903	12.3	--	--	--	--	--	--	--	--	--	--	--
	12.0	--	--	--	--	--	--	--	--	--	--	--
	12.5	460	121c	37.4c	.5	22.5c	173@c	18.0c	20.8	32.8c	--	--
	12.6	--	--	--	--	--	--	--	--	--	--	<.04
DAKOTA COUNTY												
422035096281901	11.7	--	--	--	--	--	--	--	--	--	--	--
	11.5	--	--	--	--	--	--	--	--	--	--	--
	11.5	--	--	--	--	--	--	--	--	--	--	--
	11.7	--	--	--	--	--	--	--	--	--	.62	.48
422035096281902	11.6	--	--	--	--	--	--	--	--	--	--	--
	11.0	--	--	--	--	--	--	--	--	--	--	--
	11.5	--	--	--	--	--	--	--	--	--	--	--
	11.7	--	--	--	--	--	--	--	--	--	.51	.40
422035096281903	11.6	--	--	--	--	--	--	--	--	--	--	--
	11.0	--	--	--	--	--	--	--	--	--	--	--
	11.5	--	--	--	--	--	--	--	--	--	--	--
	11.8	--	--	--	--	--	--	--	--	--	.14	.11
DOUGLAS COUNTY												
411231096193201	11.9	--	--	--	--	--	--	--	--	--	--	--
	12.0	240	74.6	12.5	.8	28.1	195	13.6	33.7	85.9	--	--
	12.0	--	--	--	--	--	--	--	--	--	--	--
	12.2	--	--	--	--	--	--	--	--	--	--	<.04
411231096193202	12.1	--	--	--	--	--	--	--	--	--	--	--
	12.0	230	73.2	12.4	.8	28.7	193	14.3	33.1	90.1	--	--
	12.0	--	--	--	--	--	--	--	--	--	--	--
	12.2	--	--	--	--	--	--	--	--	--	--	<.04
411231096193203	13.9	--	--	--	--	--	--	--	--	--	--	--
	14.0	210	67.0	10.4	.4	13.6	143	14.6	28.4	72.0	--	--
	11.5	--	--	--	--	--	--	--	--	--	--	--
	11.2	--	--	--	--	--	--	--	--	--	--	<.04
412151096180801	11.7	--	--	--	--	--	--	--	--	--	--	--
	12.0	--	--	--	--	--	--	--	--	--	--	--
	12.0	--	--	--	--	--	--	--	--	--	--	--
	11.8	260	78.7	15.9	.5	17.0	237@c	4.99	26.2	66.0	.40	.31

PAPIO-MISSOURI STUDY—WATER QUALITY FROM MONITORING WELL NESTS—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)
BURT COUNTY									
414700096134901	--	--	<.06	--	--	--	--	--	--
	--	--	2.77	--	--	--	--	--	--
	--	--	1.09	--	--	--	--	8c	996c
	--	--	1.84	--	<.008	--	<.02	--	--
414700096134902	--	--	<.06	--	--	--	--	--	--
	--	--	.28	--	--	--	--	--	--
	--	--	.51	--	--	--	--	10c	219c
	6.91	1.56	1.57	.030	.009	.074	.02	--	--
414700096134903	--	--	19.4d	--	--	--	--	--	--
	--	--	19.4d	--	--	--	--	--	--
	--	--	20.6d	--	--	--	--	<6c	<.8c
	--	--	19.4d	--	<.008	.264	.09	--	--
DAKOTA COUNTY									
422035096281901	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	<.008	--	<.02	--	--
422035096281902	--	--	<.06	--	--	--	--	--	--
	--	--	E.03n	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	<.008	.132	.04	--	--
422035096281903	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	<.008	--	<.02	--	--
DOUGLAS COUNTY									
411231096193201	--	--	1.59	--	--	--	--	--	--
	--	--	1.51	--	--	--	--	E5n	38.6
	--	--	1.33	--	--	--	--	--	--
	--	--	1.17	--	E.004n	.331	.11	--	--
411231096193202	--	--	.47	--	--	--	--	--	--
	--	--	.47	--	--	--	--	55	210
	--	--	.36	--	--	--	--	--	--
	--	--	.21	--	E.005n	.242	.08	--	--
411231096193203	--	--	1.09	--	--	--	--	--	--
	--	--	1.31	--	--	--	--	8	365
	--	--	1.21	--	--	--	--	--	--
	3.98	.90	.92	.066	.020	.141	.05	--	--
412151096180801	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	<.008	.074	.02	1,730	1,540

PAPIO-MISSOURI STUDY—WATER QUALITY FROM MONITORING WELL NESTS—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
		DOUGLAS COUNTY				
412151096180802	16N 10E16BAAA2	41 21 51 N	096 18 08 W	112SDGV	10-30-03	1700
	16N 10E16BAAA2	41 21 51 N	096 18 08 W	112SDGV	12-05-03	1210
	16N 10E16BAAA2	41 21 51 N	096 18 08 W	112SDGV	03-16-04	1535
	16N 10E16BAAA2	41 21 51 N	096 18 08 W	112SDGV	05-07-04	1050
		SARPY COUNTY				
410243096082001	12N 11E 1BBBB1	41 02 43 N	096 08 20 W	112SDGV	10-28-03	1435
	12N 11E 1BBBB1	41 02 43 N	096 08 20 W	112SDGV	12-02-03	1355
	12N 11E 1BBBB1	41 02 43 N	096 08 20 W	112SDGV	03-16-04	1215
	12N 11E 1BBBB1	41 02 43 N	096 08 20 W	112SDGV	05-07-04	1620
410243096082002	12N 11E 1BBBB2	41 02 43 N	096 08 20 W	112SDGV	10-28-03	1505
	12N 11E 1BBBB2	41 02 43 N	096 08 20 W	112SDGV	12-02-03	1430
	12N 11E 1BBBB2	41 02 43 N	096 08 20 W	112SDGV	03-16-04	1245
	12N 11E 1BBBB2	41 02 43 N	096 08 20 W	112SDGV	05-07-04	1650
410243096082003	12N 11E 1BBBB3	41 02 43 N	096 08 20 W	112SDGV	10-28-03	1535
	12N 11E 1BBBB3	41 02 43 N	096 08 20 W	112SDGV	12-02-03	1455
	12N 11E 1BBBB3	41 02 43 N	096 08 20 W	112SDGV	03-16-04	1315
	12N 11E 1BBBB3	41 02 43 N	096 08 20 W	112SDGV	05-07-04	1720
410334096182801	13N 10E33BBAB1	41 03 34 N	096 18 28 W	112SDGV	10-28-03	1125
	13N 10E33BBAB1	41 03 34 N	096 18 28 W	112SDGV	12-05-03	0830
	13N 10E33BBAB1	41 03 34 N	096 18 28 W	112SDGV	02-25-04	1700
	13N 10E33BBAB1	41 03 34 N	096 18 28 W	112SDGV	05-11-04	1100
410334096182802	13N 10E33BBAB2	41 03 34 N	096 18 28 W	112SDGV	10-28-03	1215
	13N 10E33BBAB2	41 03 34 N	096 18 28 W	112SDGV	12-05-03	0920
	13N 10E33BBAB2	41 03 34 N	096 18 28 W	112SDGV	02-25-04	1725
	13N 10E33BBAB2	41 03 34 N	096 18 28 W	112SDGV	05-11-04	1120
410334096182803	13N 10E33BBAB3	41 03 34 N	096 18 28 W	112SDGV	10-28-03	1240
	13N 10E33BBAB3	41 03 34 N	096 18 28 W	112SDGV	12-05-03	0945
	13N 10E33BBAB3	41 03 34 N	096 18 28 W	112SDGV	02-25-04	1745
	13N 10E33BBAB3	41 03 34 N	096 18 28 W	112SDGV	05-11-04	1135
		THURSTON COUNTY				
420840096290901	25N 8E14ADBA1	42 08 40 N	096 29 09 W	211DKOT	10-29-03	1010
	25N 8E14ADBA1	42 08 40 N	096 29 09 W	211DKOT	12-03-03	1045
	25N 8E14ADBA1	42 08 40 N	096 29 09 W	211DKOT	03-18-04	1215
	25N 8E14ADBA1	42 08 40 N	096 29 09 W	211DKOT	05-05-04	1000
420840096290902	25N 8E14ADBA2	42 08 40 N	096 29 09 W	211DKOT	10-29-03	1100
	25N 8E14ADBA2	42 08 40 N	096 29 09 W	211DKOT	12-03-03	1125
	25N 8E14ADBA2	42 08 40 N	096 29 09 W	211DKOT	03-18-04	1305
	25N 8E14ADBA2	42 08 40 N	096 29 09 W	211DKOT	05-05-04	1050
420840096290903	25N 8E14ADBA3	42 08 40 N	096 29 09 W	211DKOT	10-29-03	1145
	25N 8E14ADBA3	42 08 40 N	096 29 09 W	211DKOT	12-03-03	1200
	25N 8E14ADBA3	42 08 40 N	096 29 09 W	211DKOT	03-18-04	1340
	25N 8E14ADBA3	42 08 40 N	096 29 09 W	211DKOT	05-05-04	1140

PAPIO-MISSOURI STUDY—WATER QUALITY FROM MONITORING WELL NESTS—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)
DOUGLAS COUNTY												
412151096180802	25	10.96	1,136	7.0	5	719	--	.8	8	7.2	550	8.7
	25	10.63	1,136	7.0	5	742	--	.2	2	7.0	560	-.5
	25	8.96	1,136	7.0	15	732	--	1.6	16	7.5	550	1.5
	25	9.39	1,136	7.0	10	731	16	1.6	16	7.5	545	20.8
SARPY COUNTY												
410243096082001	83	16.76	1,020	6.0	22	726	--	7.5	74	7.0	501	16.0
	83	16.17	1,020	6.0	22	737	63	6.6	64	6.9	501	5.5
	83	14.61	1,020	6.0	45	732	--	7.3	72	7.3	509	4.0
	83	15.73	1,020	6.0	26	731	--	6.7	66	7.4	507	28.6
410243096082002	70	16.67	1,020	6.0	18	726	--	7.0	69	6.9	514	16.0
	70	16.19	1,020	6.0	18	737	72	5.6	54	6.8	509	5.5
	70	14.51	1,020	6.0	23	732	--	6.2	60	7.3	513	4.0
	70	15.64	1,020	6.0	25	731	--	6.1	60	7.3	512	28.6
410243096082003	55	16.30	1,020	6.0	15	726	--	4.2	42	6.9	498	16.0
	55	15.82	1,020	6.0	13	737	65	3.4	33	6.8	494	5.5
	55	14.02	1,020	6.0	21	732	--	3.9	38	7.3	504	4.0
	55	15.30	1,020	6.0	20	731	--	3.6	36	7.3	504	28.6
410334096182801	55	4.98	1,055	7.0	15	726	--	.3	3	7.2	466	16.0
	55	4.87	1,055	7.0	15	742	31	.1	1	7.1	470	-.1
	55	3.25	1,055	7.0	20	739	--	.1	1	7.7	468	4.5
	55	4.40	1,055	7.0	25	746	--	.1	1	7.6	467	20.6
410334096182802	37.5	5.74	1,055	7.0	10	726	--	.3	3	7.2	452	16.0
	37.5	5.63	1,055	7.0	10	742	25	.4	4	7.2	455	-.5
	37.5	3.47	1,055	7.0	20	739	--	.3	3	7.7	448	4.5
	37.5	5.12	1,055	7.0	14	746	--	.2	2	7.6	447	20.6
410334096182803	21	5.92	1,055	7.0	5	726	--	.4	4	6.9	739	16.0
	21	5.79	1,055	7.0	5	742	68	.1	1	6.8	726	-.5
	21	4.17	1,055	7.0	20	739	--	.2	2	7.3	633	4.5
	21	5.30	1,055	7.0	10	746	--	.9	9	7.2	647	20.6
THURSTON COUNTY												
420840096290901	162	16.25	1,212	6.0	48	718	--	.3	3	7.0	906	5.7
	162	15.95	1,212	6.0	48	733	--	M	.0	6.9	917	.5
	162	16.30	1,212	6.0	55	732	19	.1	.0	7.1	905	5.0
	162	15.96	1,212	6.0	50	723	--	.3	3	7.1	913	17.9
420840096290902	133	16.33	1,212	6.0	38	718	--	.3	3	7.1	833	5.7
	133	15.60	1,212	6.0	38	733	--	.1	.0	6.9	843	.5
	133	16.04	1,212	6.0	45	732	21	.4	4	7.1	837	5.0
	133	15.57	1,212	6.0	43	723	--	.4	4	7.2	846	17.9
420840096290903	104.5	16.49	1,212	6.0	28	718	--	.2	2	7.1	759	5.7
	104.5	16.05	1,212	6.0	30	733	--	.1	.0	6.9	766	.5
	104.5	16.50	1,212	6.0	35	732	22	.2	2	7.1	760	5.0
	104.5	16.14	1,212	6.0	33	723	--	.4	4	7.2	769	17.9

PAPIO-MISSOURI STUDY—WATER QUALITY FROM MONITORING WELL NESTS—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)
DOUGLAS COUNTY												
412151096180802	12.0	--	--	--	--	--	--	--	--	--	--	--
	12.0	--	--	--	--	--	--	--	--	--	--	--
	12.0	--	--	--	--	--	--	--	--	--	--	--
	11.5	260	77.6	15.7	.5	18.6	245@c	4.37c	23.6	59.7c	.28	.22
SARPY COUNTY												
410243096082001	12.4	--	--	--	--	--	--	--	--	--	--	--
	12.5	230	65.6	17.2	.5	18.3	235	5.17	30.1	19.9	--	--
	12.5	--	--	--	--	--	--	--	--	--	--	--
	12.6	--	--	--	--	--	--	--	--	--	--	<.04
410243096082002	12.4	--	--	--	--	--	--	--	--	--	--	--
	12.5	240	66.3	18.0	.5	18.2	236	5.80	32.2	22.3	--	--
	12.5	--	--	--	--	--	--	--	--	--	--	--
	12.6	--	--	--	--	--	--	--	--	--	--	<.04
410243096082003	12.5	--	--	--	--	--	--	--	--	--	--	--
	12.5	230	64.7	17.2	.5	17.6	238	5.98	37.6	26.8	--	--
	12.5	--	--	--	--	--	--	--	--	--	--	--
	12.6	--	--	--	--	--	--	--	--	--	.08	.07
410334096182801	12.7	--	--	--	--	--	--	--	--	--	--	--
	12.0	200	55.3	13.9	.8	24.4	211	15.1	30.6	20.4	--	--
	12.5	--	--	--	--	--	--	--	--	--	--	--
	12.7	--	--	--	--	--	--	--	--	--	.40	.31
410334096182802	12.7	--	--	--	--	--	--	--	--	--	--	--
	12.5	180	52.1	13.0	.8	24.9	190	14.7	27.3	30.5	--	--
	12.5	--	--	--	--	--	--	--	--	--	--	--
	12.7	--	--	--	--	--	--	--	--	--	.30	.23
410334096182803	13.8	--	--	--	--	--	--	--	--	--	--	--
	13.5	270	79.0c	17.5c	2	57.3c	247	8.79c	34.4	37.6c	--	--
	12.0	--	--	--	--	--	--	--	--	--	--	--
	11.4	--	--	--	--	--	--	--	--	--	.24	.19
THURSTON COUNTY												
420840096290901	11.0	--	--	--	--	--	--	--	--	--	--	--
	11.0	--	--	--	--	--	--	--	--	--	--	--
	11.0	410	127c	23.7c	.9	43.3c	120@c	28.1c	12.9	156c	--	--
	11.1	--	--	--	--	--	--	--	--	--	.51	.40
420840096290902	10.9	--	--	--	--	--	--	--	--	--	--	--
	10.5	--	--	--	--	--	--	--	--	--	--	--
	11.0	400	121c	23.9c	.7	33.3c	132@c	22.8c	15.1	120c	--	--
	11.0	--	--	--	--	--	--	--	--	--	.48	.37
420840096290903	10.9	--	--	--	--	--	--	--	--	--	--	--
	10.5	--	--	--	--	--	--	--	--	--	--	--
	11.0	370	113c	21.5c	.6	28.2c	145@c	15.8c	15.2	83.1c	--	--
	11.0	--	--	--	--	--	--	--	--	--	.46	.35

PAPIO-MISSOURI STUDY—WATER QUALITY FROM MONITORING WELL NESTS—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)
DOUGLAS COUNTY									
412151096180802	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	<.008	--	E.01n	1,460	1,150
SARPY COUNTY									
410243096082001	--	--	--	--	--	--	--	--	--
	--	--	6.42d	--	--	--	--	7	E.4n
	--	--	7.08d	--	--	--	--	--	--
	--	--	6.77d	--	<.008	.435	.14	--	--
410243096082002	--	--	6.36d	--	--	--	--	--	--
	--	--	5.01d	--	--	--	--	29	5.2
	--	--	6.27d	--	--	--	--	--	--
	--	--	6.44d	--	<.008	.524	.17	--	--
410243096082003	--	--	3.17	--	--	--	--	--	--
	--	--	2.91	--	--	--	--	164	268
	--	--	3.55	--	--	--	--	--	--
	--	--	3.47	--	<.008	1.64	.54	--	--
410334096182801	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	965	657
	--	--	<.06	--	--	--	--	--	--
	.544	.12	.13	.030	.009	.362	.12	--	--
410334096182802	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	1,600	670
	--	--	E.05n	--	--	--	--	--	--
	--	--	<.06	--	E.007n	.297	.10	--	--
410334096182803	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	4,410c	1,070c
	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	E.006n	.451	.15	--	--
THURSTON COUNTY									
420840096290901	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	882c	150c
	--	--	<.06	--	<.008	--	E.01n	--	--
420840096290902	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	861c	232c
	--	--	<.06	--	<.008	--	E.01n	--	--
420840096290903	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	--	--
	--	--	<.06	--	--	--	--	917c	212c
	--	--	<.06	--	<.008	--	E.01n	--	--

PAPIO-MISSOURI STUDY—WATER QUALITY FROM MONITORING WELL NESTS—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
		WASHINGTON COUNTY				
412527096081201	17N 11E24CCBC1	41 25 27 N	096 08 12 W	112SDGV	10-30-03	1000
	17N 11E24CCBC1	41 25 27 N	096 08 12 W	112SDGV	12-04-03	1200
	17N 11E24CCBC1	41 25 27 N	096 08 12 W	112SDGV	03-19-04	1240
	17N 11E24CCBC1	41 25 27 N	096 08 12 W	112SDGV	05-06-04	1210
412527096081202	17N 11E24CCBC2	41 25 27 N	096 08 12 W	112SDGV	10-30-03	1035
	17N 11E24CCBC2	41 25 27 N	096 08 12 W	112SDGV	12-04-03	1230
	17N 11E24CCBC2	41 25 27 N	096 08 12 W	112SDGV	03-19-04	1315
	17N 11E24CCBC2	41 25 27 N	096 08 12 W	112SDGV	05-06-04	1240
412527096081203	17N 11E24CCBC3	41 25 27 N	096 08 12 W	112SDGV	03-19-04	1330
	17N 11E24CCBC3	41 25 27 N	096 08 12 W	112SDGV	05-06-04	1325
412637095565901	17N 13E16BDAA1	41 26 37 N	095 56 59 W	112SDGV	10-30-03	1400
	17N 13E16BDAA1	41 26 37 N	095 56 59 W	112SDGV	12-04-03	1500
	17N 13E16BDAA1	41 26 37 N	095 56 59 W	112SDGV	03-19-04	1535
	17N 13E16BDAA1	41 26 37 N	095 56 59 W	112SDGV	05-06-04	1545
412637095565902	17N 13E16DBAA2	41 26 37 N	095 56 59 W	112SDGV	10-30-03	1440
	17N 13E16DBAA2	41 26 37 N	095 56 59 W	112SDGV	12-04-03	1520
	17N 13E16DBAA2	41 26 37 N	095 56 59 W	112SDGV	03-19-04	1600
	17N 13E16DBAA2	41 26 37 N	095 56 59 W	112SDGV	05-06-04	1615
412637095565903	17N 13E16DBAA3	41 26 37 N	095 56 59 W	112SDGV	10-30-03	1505
	17N 13E16DBAA3	41 26 37 N	095 56 59 W	112SDGV	12-04-03	1530
	17N 13E16DBAA3	41 26 37 N	095 56 59 W	112SDGV	03-19-04	1615
	17N 13E16DBAA3	41 26 37 N	095 56 59 W	112SDGV	05-06-04	1630

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)
					WASHINGTON COUNTY							
412527096081201	225	163.72	1,210	3.0	40	719	--	3.8	38	7.2	725	8.7
	225	163.86	1,210	3.0	40	733	--	3.2	31	7.3	726	4.0
	225	162.66	1,210	3.0	45	732	--	3.2	32	7.2	721	19.0
	225	162.83	1,210	3.0	49	725	24	4.0	40	7.3	722	25.6
412527096081202	193.5	161.88	1,208	3.0	20	719	--	2.3	24	7.4	564	8.7
	193.5	161.99	1,208	3.0	25	733	--	2.7	27	7.5	563	4.0
	193.5	161.00	1,208	3.0	25	732	--	2.4	24	7.4	563	19.0
	193.5	161.05	1,208	3.0	28	725	15	2.8	28	7.6	565	25.6
412527096081203	168	164.24	1,206	3.0	8	732	--	3.4	33	7.6	654	19.0
	168	165.74	1,206	3.0	12	725	8.0	3.0	30	7.8	594	25.6
412637095565901	100	10.94	995	7.0	25	719	60	.2	2	7.1	1,220	8.7
	100	12.48	995	7.0	25	733	--	.1	.0	7.2	1,190	2.5
	100	13.05	995	7.0	30	732	--	.1	.0	7.0	1,180	23.0
	100	11.09	995	7.0	30	725	68	.1	.0	7.1	1,200	33.2
412637095565902	60	11.08	995	7.0	14	719	69	.1	1	7.1	1,060	8.7
	60	12.62	995	7.0	15	733	--	M	.0	7.2	1,060	2.5
	60	13.17	995	7.0	20	732	--	.1	.0	7.1	1,090	23.0
	60	11.24	995	7.0	25	725	--	.2	2	7.2	1,100	33.2
412637095565903	25	11.13	995	6.0	5	719	85	.6	6	6.9	1,040	8.7
	25	12.74	995	7.0	5	733	--	.3	3	7.1	945	2.5
	25	13.28	995	7.0	10	732	--	.8	8	6.9	996	23.0
	25	11.38	995	7.0	13	725	--	.9	9	7.0	1,050	33.2

PAPIO-MISSOURI STUDY—WATER QUALITY FROM MONITORING WELL NESTS—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)
WASHINGTON COUNTY												
412527096081201	13.3	--	--	--	--	--	--	--	--	--	--	--
	13.0	--	--	--	--	--	--	--	--	--	--	--
	13.5	--	--	--	--	--	--	--	--	--	--	--
	13.8	360	99.3	27.8	.7	31.8	270@c	2.63c	22.7	33.3c	.58	.45
412527096081202	13.1	--	--	--	--	--	--	--	--	--	--	--
	13.0	--	--	--	--	--	--	--	--	--	--	--
	13.5	--	--	--	--	--	--	--	--	--	--	--
	13.8	240	64.6	19.0	1	38.1	284@c	2.58	22.4	17.3	.59	.46
412527096081203	12.5	--	--	--	--	--	--	--	--	--	--	--
	13.3	260	68.3c	20.8c	1	37.4	237@c	2.82	21.8	54.1c	.42	.33
412637095565901	12.3	630	159c	55.4c	.8	47.9c	401	8.91	29.7	49.4	--	--
	12.0	--	--	--	--	--	--	--	--	--	--	--
	12.5	--	--	--	--	--	--	--	--	--	--	--
	12.6	610	157c	53.4c	.9	49.7c	487@c	8.91c	30.8	43.8c	1.36	1.06
412637095565902	12.4	530	141c	44.3c	.9	46.1c	462	3.85	32.1	25.9	--	--
	12.0	--	--	--	--	--	--	--	--	--	--	--
	12.5	--	--	--	--	--	--	--	--	--	--	--
	12.6	--	--	--	--	--	--	--	--	--	1.55	1.20
412637095565903	13.0	580	144c	52.6c	.5	27.3c	350	4.28c	21.2	56.1	--	--
	13.0	--	--	--	--	--	--	--	--	--	--	--
	12.5	--	--	--	--	--	--	--	--	--	--	--
	12.0	--	--	--	--	--	--	--	--	--	.28	.22

PAPIO-MISSOURI STUDY—WATER QUALITY FROM MONITORING WELL NESTS—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)
WASHINGTON COUNTY						
412527096081201	<.06	--	--	--	--	--
	<.06	--	--	--	--	--
	<.06	--	--	--	--	--
	<.06	<.008	.064	.02	773	236
412527096081202	<.06	--	--	--	--	--
	<.06	--	--	--	--	--
	<.06	--	--	--	--	--
	<.06	<.008	.184	.06	195	166
412527096081203	E.05n	--	--	--	--	--
	<.06	<.008	.190	.06	61c	128c
412637095565901	<.06	--	--	--	7,420c	317c
	<.06	--	--	--	--	--
	<.06	--	--	--	--	--
	<.06	<.008	.120	.04	5,710c	318c
412637095565902	<.06	--	--	--	9,670c	244c
	<.06	--	--	--	--	--
	<.06	--	--	--	--	--
	E.03n	<.008	--	<.02	--	--
412637095565903	<.06	--	--	--	1,540c	1,930c
	<.06	--	--	--	--	--
	<.06	--	--	--	--	--
	<.06	<.008	--	<.02	--	--

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

Value qualifier codes used in this table:
@ -- Holding time exceeded
c -- See laboratory comment
d -- Diluted sample: method hi range exceeded
n -- Below the LRL and above the LT-MDL

GROUND-WATER PROTECTION AREA—MIDDLE REPUBLICAN NATURAL RESOURCES DISTRICT

(Station Name: indicates location by township, range, and section. Geologic unit: 112SDGV, Pleistocene sand and gravel deposits; 121OGLL, Tertiary Ogallala Formation.)

COUNTIES.--Hitchcock and Red Willow

MULTIPLE STATION ANALYSES

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
HITCHCOCK COUNTY						
400818101124001	2N 35W13AAAD1	40 08 18 N	101 12 40 W	112SDGV	09-16-04	0950
400818101124002	2N 35W13AAAD2	40 08 18 N	101 12 40 W	112SDGV	09-16-04	1020
401655100583201	4N 32W30DCBB1	40 16 55 N	100 58 32 W	112SDGV	09-16-04	0810
401655100583202	4N 32W30DCBB2	40 16 55 N	100 58 32 W	112SDGV	09-16-04	0840
RED WILLOW COUNTY						
400357100135201	1N 26W11CBBB1	40 03 57 N	100 13 52 W	112SDGV	09-15-04	1350
400357100135202	1N 26W11CBBB2	40 03 57 N	100 13 52 W	112SDGV	09-15-04	1420
401016100391801	2N 30W 1ACDD1	40 10 16 N	100 39 18 W	112SDGV	09-16-04	1150
401016100391802	2N 30W 1ACDD2	40 10 16 N	100 39 18 W	112SDGV	09-16-04	1220
401412100364201	3N 29W 8DDBA1	40 14 12 N	100 36 42 W	121OGLL	09-15-04	1050
401412100364202	3N 29W 8DDBA2	40 14 12 N	100 36 42 W	121OGLL	09-15-04	1130
401412100364203	3N 29W 8DDBA3	40 14 12 N	100 36 42 W	112SDGV	09-15-04	1200
401454100215401	3N 27W 9AAAA1	40 14 54 N	100 21 54 W	112SDGV	09-15-04	1600

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	Altitude of land surface feet (72000)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Nitrite + nitrate water fltrd, mg/L as N (00631)
HITCHCOCK COUNTY										
400818101124001	46	2,788	690	.5	5	7.1	1,400	16.0	13.2	14.3d
400818101124002	30	2,788	690	1.1	12	7.0	1,550	18.0	13.2	19.1d
401655100583201	61	2,867	694	2.7	28	7.2	1,240	16.0	13.4	16.0d
401655100583202	45	2,867	694	3.0	32	7.2	1,320	15.0	13.5	16.7d
RED WILLOW COUNTY										
400357100135201	64	2,366	700	1.5	16	7.0	770	18.0	13.6	<.06
400357100135202	36	2,366	700	1.1	11	7.1	1,210	18.0	13.5	2.60
401016100391801	72	2,493	698	.5	5	7.1	1,290	18.0	14.2	22.5d
401016100391802	55	2,493	698	.4	4	7.4	1,170	18.0	14.2	15.6d
401412100364201	174	2,605	693	7.7	85	7.3	532	17.0	15.0	5.38d
401412100364202	159	2,605	693	9.1	100	7.3	741	17.0	15.0	16.3d
401412100364203	135	2,605	693	9.2	100	7.3	960	17.5	14.8	24.8d
401454100215401	40	2,368	700	7.0	74	7.4	578	18.0	14.0	1.07

Remark codes used in this table:
< -- Less than

Value qualifier codes used in this table:
d -- Diluted sample: method hi range exceeded

(Station Name: indicates location by township, range, and section. Geologic unit: 110QRNR, Quaternary system deposits, undifferentiated; 112SDGV, Pleistocene sand and gravel deposits.)

COUNTIES.--Seward

MULTIPLE STATION ANALYSES

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
	SEWARD COUNTY					
405212097110002	11N 2E26CCBB2 FP3-105	40 52 12 N	097 11 00 W	110SDGV	08-24-04	1700
405212097110003	11N 2E26CCBB2 FP3-125	40 52 12 N	097 11 00 W	110SDGV	08-25-04	1100
405330097110002	11N 2E23CCBB2 FP2-105	40 53 30 N	097 11 00 W	110SDGV	08-24-04	1000
405330097110003	11N 2E23CCBB2 FP2-125	40 53 30 N	097 11 00 W	110SDGV	08-24-04	1400
405340097094501	11N 2E26ADCC1 FP1-90	40 53 40 N	097 09 45 W	110SDGV	08-23-04	1200
405340097094502	11N 2E26ADCC2 FP1-105	40 53 40 N	097 09 45 W	110SDGV	08-23-04	1600
405340097094503	11N 2E26ADCC3 FP1-123	40 53 40 N	097 09 45 W	110SDGV	08-23-04	1800
405420097114002	11N 2E22CBBB1 FP4-105	40 54 20 N	097 11 40 W	110SDGV	08-25-04	1500
405420097114003	11N 2E22CBBB3 FP4-129	40 54 20 N	097 11 40 W	110SDGV	08-25-04	1800

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Sampling depth, feet (00003)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)
					SEWARD COUNTY							
405212097110002	105	88.32	1,540	1.5	50	102	.3	720	5.6	60	6.9	617
405212097110003	125	89.34	1,540	1.5	55	--	.3	719	5.0	52	6.7	556
405330097110002	100	85.39	1,540	--	25	--	.9	718	7.9	82	6.8	594
405330097110003	125	85.32	1,540	1.5	80	120	1.3	721	4.4	47	6.8	657
405340097094501	89	81.59	1,540	.70	80	89.5	1.2	720	5.8	61	6.5	589
405340097094502	105	81.69	1,540	1.0	58	100	1.5	720	7.0	74	6.7	820
405340097094503	120	81.68	1,540	1.5	45	114	3.3	720	4.8	49	6.7	768
405420097114002	105	95.67	1,540	1.5	45	--	.3	718	8.1	85	6.8	643
405420097114003	129	95.64	1,540	1.5	40	122	.6	718	5.9	61	7.0	568

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)
					SEWARD COUNTY							
405212097110002	16.3	200	--	64.1	10.4	6.48	2	57.5	37	251	306	.0
405212097110003	14.3	240	7	77.9	11.9	6.96	.8	27.8	19	237	289	--
405330097110002	14.1	210	--	65.9	10.3	7.01	1	47.6	32	223	271	--
405330097110003	15.2	260	52	80.7	13.0	7.53	1	36.0	23	204	248	.0
405340097094501	15.2	180	--	56.3	10.3	5.42	2	48.7	36	200	244	.0
405340097094502	15.0	290	53	88.7	15.7	7.33	2	61.9	31	233	284	.0
405340097094503	14.2	300	70	95.0	14.9	7.51	1	41.5	23	229	279	.0
405420097114002	14.7	240	1	74.6	12.2	5.11	1	47.9	30	234	287	--
405420097114003	14.6	240	9	75.5	11.3	7.17	.9	30.9	22	226	276	--

CITY OF SEWARD STUDY—WATER-QUALITY MONITORING—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Bromide water, fltrd, mg/L (71870)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L (00660)
SEWARD COUNTY												
405212097110002	.09	3.36	.3	34.2	30.4	396	.53	389	<.04	8.48d	<.008	.908
405212097110003	.06	3.20	.3	39.4	39.0	366	.48	354	<.04	3.68	<.008	.825
405330097110002	.09	5.53	.3	36.0	31.2	387	.52	383	E.02n	11.1d	<.008	.895
405330097110003	.13	10.5	.2	39.2	58.5	430	.59	435	<.04	14.0d	<.008	.604
405340097094501	.05	4.84	.3	35.6	60.9	383	.52	386	<.04	8.96d	<.008	.776
405340097094502	.07	4.96	.3	35.3	129	548	.75	553	<.04	14.5d	<.008	.800
405340097094503	.07	4.81	.3	36.1	119	509	.72	531	<.04	11.6d	<.008	.711
405420097114002	.07	2.87	.3	35.9	32.2	427	.58	427	<.04	16.7d	<.008	.681
405420097114003	.08	4.21	.3	41.4	32.1	374	.51	377	<.04	7.83d	<.008	.855

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Total nitro-gen, wat flt by anal ysis, mg/L (62854)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)
SEWARD COUNTY				
405212097110002	.296d	8.71d	<6	<.8
405212097110003	.269d	3.68	<6	E.8n
405330097110002	.292d	12.0d	<6	<.8
405330097110003	.197d	15.7d	<6	.9
405340097094501	.253d	9.62d	<6	<.8
405340097094502	.261d	15.1d	<6	E.6n
405340097094503	.232d	12.0d	<6	E.8n
405420097114002	.222d	17.9d	<6	<.8
405420097114003	.279d	7.93d	E5n	1.3

Remark codes used in this table:
< -- Less than
E -- Estimated value

Value qualifier codes used in this table:
d -- Diluted sample: method hi range exceeded
n -- Below the LRL and above the LT-MDL

COUNTIES.--Butler, Colfax, Custer, Dawson, Dodge, Gosper, Hall, Howard, Merrick, Nance, Platte, Phelps, Sherman, and Valley

MISCELLANEOUS STATION ANALYSES

Date	Time	Altitude of land surface feet (72000)	Instantaneous discharge, cfs (00061)	Drainage area, mi2 (81024)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)
06767500 PLUM CREEK NEAR SMITHFIELD, NE (LAT 40 38 28N LONG 099 42 38W)													
JUN 2003													
23...	1500	2,400	11	224	--	689	6.7	87	8.1	903	--	23.1	--
JUL													
30...	1100	2,400	14	224	120	712	6.2	74	8.2	849	28.0	20.5	230
30...	1100	2,400	14	224	120	712	6.2	74	8.2	849	28.0	20.5	230
30...	1110	2,400	14	224	120	712	6.2	74	8.2	849	28.0	20.5	230
06772000 WOOD RIVER NEAR ALDA, NEBR. (LAT 40 51 08N LONG 098 28 28W)													
JUN 2003													
24...	1100	1,898	3.8	602	--	696	9.3	127	8.4	1,440	28.0	26.0	--
JUL													
26...	1400	1,898	11	602	18	714	8.4	116	8.3	1,320	38.0	28.2	317
26...	1400	1,898	11	602	18	714	8.4	116	8.3	1,320	38.0	28.2	317
26...	1410	1,898	11	602	18	417	8.4	205	8.3	1,320	38.0	28.2	317
06773500 PRAIRIE CREEK NR SILVER CREEK NEBR (LAT 41 19 43N LONG 097 40 30W)													
JUN 2003													
18...	1430	1,550	8.0	494	--	717	10.1	130	8.5	440	--	24.9	--
JUL													
23...	1700	1,550	.67	494	4.8	723	--	--	9.3	262	29.0	30.0	106
23...	1700	1,550	.67	494	4.8	723	--	--	9.3	262	29.0	30.0	106
23...	1710	1,550	.67	494	4.8	723	--	--	9.3	262	29.0	30.0	106
06781800 SOUTH LOUP R NR. CALLAWAY, NE. (LAT 41 18 12N LONG 099 55 50W)													
JUN 2003													
19...	1330	2,540	82	760	--	706	8.9	108	8.1	290	--	21.2	--
JUL													
29...	0800	2,540	49	760	27	700	8.2	100	8.0	300	24.0	20.6	127
29...	0800	2,540	49	760	27	700	8.2	100	8.0	300	24.0	20.6	127
29...	0810	2,540	49	760	27	700	8.2	100	8.0	300	24.0	20.6	127
06783400 CLEAR C NR LITCHFIELD, NEBR. (LAT 41 08 48N LONG 099 06 15W)													
JUN 2003													
19...	1800	--	.06	230	--	706	7.5	94	7.8	614	--	22.4	--
06784500 OAK CREEK NR DANNEBROG NEBR (LAT 41 07 10N LONG 098 36 45W)													
JUN 2003													
16...	1230	1,879	43	122	--	712	6.6	78	7.7	433	--	19.6	--
JUL													
25...	1500	1,879	37	122	220	713	6.3	81	7.8	416	32.0	24.0	199
25...	1500	1,879	37	122	220	713	6.3	81	7.8	416	32.0	24.0	199
25...	1510	1,879	37	122	220	713	6.3	81	7.8	416	32.0	24.0	199
06800000 MAPLE CREEK NEAR NICKERSON, NE (LAT 41 33 37N LONG 096 32 26W)													
JUL 2003													
31...	1300	1,212	6.8	368	120	730	9.7	113	8.0	455	23.0	20.4	232
31...	1300	1,212	6.8	368	120	730	9.7	113	8.0	455	23.0	20.4	232
31...	1310	1,212	6.8	368	120	730	9.7	113	8.0	455	23.0	20.4	232

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Hydroxide, wat flt incrm. titr., field, mg/L (71834)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Organic nitrogen, water, unfltrd mg/L (00605)
06767500 PLUM CREEK NEAR SMITHFIELD, NE (LAT 40 38 28N LONG 099 42 38W)													
JUN 2003													
23...	--	--	--	1.3	.08	.07	8.06	1.82	1.85	.102	.031	--	1.2
JUL													
30...	276	2	--	1.3	--	<.04	9.12	2.06	2.08	.069	.021	.80	--
30...	276	2	--	--	--	--	--	--	--	--	--	--	--
30...	276	2	--	--	--	--	--	--	--	--	--	--	--
06772000 WOOD RIVER NEAR ALDA, NEBR. (LAT 40 51 08N LONG 098 28 28W)													
JUN 2003													
24...	--	--	--	2.7	--	<.04	96.5	21.8	21.9	.332	.101	--	--
JUL													
26...	377	5	--	1.0	--	<.04	74.3	16.8	16.8	.187	.057	.20	--
26...	377	5	--	--	--	--	--	--	--	--	--	--	--
26...	377	5	--	--	--	--	--	--	--	--	--	--	--
06773500 PRAIRIE CREEK NR SILVER CREEK NEBR (LAT 41 19 43N LONG 097 40 30W)													
JUN 2003													
18...	--	--	--	.67	--	<.04	.660	.15	.16	.043	.013	--	--
JUL													
23...	108	10	--	.99	--	E.04	7.45	1.68	1.75	.227	.069	.52	--
23...	108	10	--	--	--	--	--	--	--	--	--	--	--
23...	108	10	M	--	--	--	--	--	--	--	--	--	--
06781800 SOUTH LOUP R NR. CALLAWAY, NE. (LAT 41 18 12N LONG 099 55 50W)													
JUN 2003													
19...	--	--	--	1.2	--	<.04	5.27	1.19	1.20	.033	.010	--	--
JUL													
29...	155	--	--	.49	--	<.04	--	--	.31	--	<.008	.28	--
29...	155	--	--	--	--	--	--	--	--	--	--	--	--
29...	155	--	--	--	--	--	--	--	--	--	--	--	--
06783400 CLEAR C NR LITCHFIELD, NEBR. (LAT 41 08 48N LONG 099 06 15W)													
JUN 2003													
19...	--	--	--	1.6	.10	.08	--	--	E.05	.026	.008	--	1.5
06784500 OAK CREEK NR DANNEBROG NEBR (LAT 41 07 10N LONG 098 36 45W)													
JUN 2003													
16...	--	--	--	2.3	.10	.08	6.71	1.52	1.64	.407	.124	--	2.2
JUL													
25...	240	--	--	1.4	--	E.03	3.83	.86	.88	.043	.013	.79	--
25...	240	--	--	--	--	--	--	--	--	--	--	--	--
25...	240	--	--	--	--	--	--	--	--	--	--	--	--
06800000 MAPLE CREEK NEAR NICKERSON, NE (LAT 41 33 37N LONG 096 32 26W)													
JUL 2003													
31...	280	4	--	--	--	--	--	--	--	--	--	--	--
31...	280	4	--	--	--	--	--	--	--	--	--	--	--
31...	280	4	--	--	--	--	--	--	--	--	--	--	--

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Biomass periphyton, ashfree drymass g/m2 (49954)	Biomass periphyton, ashfree dry wt, DTH, g/m2 (63766)	Biomass periphyton, ash weight, DTH, g/m2 (63765)	Periphyton biomass ash weight, g/m2 (00572)	Biomass periphyton, dry weight, DTH, g/m2 (63767)
06767500 PLUM CREEK NEAR SMITHFIELD, NE (LAT 40 38 28N LONG 099 42 38W)													
JUN 2003													
23...	1.41	.46	.73	3.2	--	--	--	--	--	--	--	--	--
JUL													
30...	1.31	.43	.71	3.4	10.2	.2	10.0	4.1	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	162	6,940	--	7,100
30...	--	--	--	--	--	--	--	--	16.6	--	--	270	--
06772000 WOOD RIVER NEAR ALDA, NEBR. (LAT 40 51 08N LONG 098 28 28W)													
JUN 2003													
24...	11.6	3.78	4.04	25	--	--	--	--	--	--	--	--	--
JUL													
26...	3.63	1.18	1.33	18	1.6	<.1	1.6	5.9	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	13.1	--	--	320	--
26...	--	--	--	--	--	--	--	--	--	218	6,220	--	6,440
06773500 PRAIRIE CREEK NR SILVER CREEK NEBR (LAT 41 19 43N LONG 097 40 30W)													
JUN 2003													
18...	.681	.22	.26	.84	--	--	--	--	--	--	--	--	--
JUL													
23...	.166	.05	.115	2.7	2.8	<.1	2.8	4.7	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	105	3,020	--	3,130
23...	--	--	--	--	--	--	--	--	43.4	--	--	860	--
06781800 SOUTH LOUP R NR. CALLAWAY, NE. (LAT 41 18 12N LONG 099 55 50W)													
JUN 2003													
19...	.365	.12	.31	2.4	--	--	--	--	--	--	--	--	--
JUL													
29...	--	E.01	.22	.80	2.4	<.1	2.3	1.8	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	150	5,660	--	5,810
29...	--	--	--	--	--	--	--	--	15.1	--	--	340	--
06783400 CLEAR C NR LITCHFIELD, NEBR. (LAT 41 08 48N LONG 099 06 15W)													
JUN 2003													
19...	3.68	1.20	1.46	--	--	--	--	--	--	--	--	--	--
06784500 OAK CREEK NR DANNEBROG NEBR (LAT 41 07 10N LONG 098 36 45W)													
JUN 2003													
16...	1.78	.58	1.15	3.9	--	--	--	--	--	--	--	--	--
JUL													
25...	1.75	.57	.90	2.3	7.6	<.1	7.6	4.5	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	13.4	--	--	220	--
25...	--	--	--	--	--	--	--	--	--	95.8	2,500	--	2,600
06800000 MAPLE CREEK NEAR NICKERSON, NE (LAT 41 33 37N LONG 096 32 26W)													
JUL 2003													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	130	4,710	--	4,840
31...	--	--	--	--	--	--	--	--	2.8	--	--	49	--

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Peri-phyton biomass dry weight, g/m2 (00573)	Biomass chloro-phyll ratio, peri-phyton, number (70950)	Chloro-phyll a peri-phyton, DTH, CF meth mg/m2 (63763)	Pheo-phytn a peri-phyton, DTH, CF meth mg/m2 (63764)	Pheo-phytin a, peri-phyton, mg/m2 (62359)	Pheo-phytin a, phyto-plank-ton, ug/L (62360)	Chloro-phyll a peri-phyton, chromo-fluoro, mg/m2 (70957)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)
06767500 PLUM CREEK NEAR SMITHFIELD, NE (LAT 40 38 28N LONG 099 42 38W)										
JUN 2003										
23...	--	--	--	--	--	--	--	--	--	--
JUL										
30...	--	--	--	--	--	17.7	--	23.1	226	8.4
30...	--	--	32.8	32.2	--	--	--	--	--	--
30...	289.0	1,030	--	--	6.0d	--	16.2d	--	--	--
06772000 WOOD RIVER NEAR ALDA, NEBR. (LAT 40 51 08N LONG 098 28 28W)										
JUN 2003										
24...	--	--	--	--	--	--	--	--	--	--
JUL										
26...	--	--	--	--	--	9.5	--	11.1	33	.96
26...	337.0	2,410	--	--	6.3	--	5.4	--	--	--
26...	--	--	46.4	112	--	--	--	--	--	--
06773500 PRAIRIE CREEK NR SILVER CREEK NEBR (LAT 41 19 43N LONG 097 40 30W)										
JUN 2003										
18...	--	--	--	--	--	--	--	--	--	--
JUL										
23...	--	--	--	--	--	15.1d	--	24.1d	6	.01
23...	--	--	274d	173	--	--	--	--	--	--
23...	899.4	541	--	--	56d	--	80.2d	--	--	--
06781800 SOUTH LOUP R NR. CALLAWAY, NE. (LAT 41 18 12N LONG 099 55 50W)										
JUN 2003										
19...	--	--	--	--	--	--	--	--	--	--
JUL										
29...	--	--	--	--	--	13.7	--	12.1	110	15
29...	--	--	114	111	--	--	--	--	--	--
29...	351.8	1,070	--	--	7.8d	--	14.1d	--	--	--
06783400 CLEAR C NR LITCHFIELD, NEBR. (LAT 41 08 48N LONG 099 06 15W)										
JUN 2003										
19...	--	--	--	--	--	--	--	--	--	--
06784500 OAK CREEK NR DANNEBROG NEBR (LAT 41 07 10N LONG 098 36 45W)										
JUN 2003										
16...	--	--	--	--	--	--	--	--	--	--
JUL										
25...	--	--	--	--	--	8.5	--	5.6	322	32
25...	238.1	2,850	--	--	4.1	--	4.7	--	--	--
25...	--	--	8.2	16.7	--	--	--	--	--	--
06800000 MAPLE CREEK NEAR NICKERSON, NE (LAT 41 33 37N LONG 096 32 26W)										
JUL 2003										
31...	--	--	--	--	--	40.2	--	68.7	--	--
31...	--	--	66.3	129	--	--	--	--	--	--
31...	51.60	671	--	--	2.2d	--	4.2d	--	--	--

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Time	Altitude of land surface feet (72000)	Instantaneous discharge, cfs (00061)	Drainage area, mi2 (81024)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)
06788898 Mira Creek nr. North Loup, NE (LAT 41 30 06N LONG 098 47 46W)													
JUN 2003													
20...	0900	--	11	65	--	708	6.1	73	7.9	638	--	20.5	--
JUL													
27...	1300	--	12	65	280	717	6.1	77	7.7	454	--	23.6	179
27...	1300	--	12	65	280	717	6.1	77	7.7	454	--	23.6	179
27...	1310	--	12	65	280	717	6.1	77	7.7	454	--	23.6	179
06795500 SHELL CREEK NEAR COLUMBUS, NEBR. (LAT 41 31 33N LONG 097 16 53W)													
JUN 2003													
17...	1600	1,435	14	306	--	723	7.3	92	8.1	683	--	24.5	--
JUL													
22...	1300	1,435	12	306	20	730	10.3	130	8.3	623	28.0	24.4	302
22...	1300	1,435	12	306	20	730	10.3	130	8.3	623	28.0	24.4	302
22...	1310	1,435	--	306	20	730	10.3	130	8.3	623	28.0	24.4	302
403559099112201 North Dry Creek at Cnty Rd. 742, Phelps Co., NE (LAT 40 34 59N LONG 099 11 22W)													
JUN 2003													
24...	0700	--	33	49	--	696	4.6	58	7.4	493	--	22.0	--
AUG													
05...	1500	--	20	49	81	707	7.5	101	8.0	1,090	33.0	26.6	216
05...	1500	--	20	49	81	707	7.5	101	8.0	1,090	33.0	26.6	216
05...	1510	--	20	49	81	707	7.5	101	8.0	1,090	33.0	26.6	216
403948099160201 South Channel Platte Trib. nr. Odessa, NE (LAT 40 39 47N LONG 099 16 01W)													
JUN 2003													
24...	0900	--	14	117	--	696	6.1	78	7.9	943	--	22.5	--
AUG													
05...	1000	--	8.9	117	30	707	12.2	175	8.6	944	--	29.9	196
05...	1000	--	8.9	117	30	707	12.2	175	8.6	944	--	29.9	196
05...	1010	--	8.9	117	30	707	12.2	175	8.6	944	--	29.9	196
404523099253501 Elm Creek-3.6 mi NW of Elm Creek, NE (LAT 40 45 23N LONG 099 25 34W)													
JUN 2003													
23...	1700	--	9.8	65	--	689	6.0	83	8.3	788	--	26.0	--
JUL													
30...	1500	--	5.3	65	63	712	7.2	94	8.4	706	30.0	25.6	200
30...	1500	--	5.3	65	63	712	7.2	94	8.4	706	30.0	25.6	200
30...	1510	--	5.3	65	63	712	7.2	94	8.4	706	30.0	25.6	200
405041099460501 Buffalo Creek nr. Lexington, NE (LAT 40 50 40N LONG 099 46 04W)													
JUN 2003													
23...	1000	--	9.6	83	--	689	6.4	84	8.1	625	--	23.5	--
JUL													
29...	1500	--	34	83	150	700	8.1	107	8.0	774	28.0	24.6	184
29...	1500	--	34	83	150	700	8.1	107	8.0	774	28.0	24.6	184
29...	1510	--	34	83	150	700	8.1	107	8.0	774	28.0	24.6	184

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Organic nitrogen, water, unfltrd mg/L (00605)	Orthophosphate, water, fltrd, mg/L (00660)
06788898 Mira Creek nr. North Loup, NE (LAT 41 30 06N LONG 098 47 46W)													
JUN 2003													
20...	--	--	3.1	.26	.20	2.08	.47	.66	.634	.193	--	2.9	2.41
JUL													
27...	218	--	2.3	--	E.03	3.39	.76	.82	.174	.053	--	--	1.98
27...	218	--	--	--	--	--	--	--	--	--	--	--	--
27...	218	--	--	--	--	--	--	--	--	--	--	--	--
06795500 SHELL CREEK NEAR COLUMBUS, NEBR. (LAT 41 31 33N LONG 097 16 53W)													
JUN 2003													
17...	--	--	1.5	--	E.03	16.7	3.78	3.93	.493	.150	--	--	.846
JUL													
22...	361	4	1.2	--	<.04	10.1	2.28	2.30	.072	.022	.50	--	.699
22...	361	4	--	--	--	--	--	--	--	--	--	--	--
22...	361	4	--	--	--	--	--	--	--	--	--	--	--
403559099112201 North Dry Creek at Cnty Rd. 742, Phelps Co., NE (LAT 40 34 59N LONG 099 11 22W)													
JUN 2003													
24...	--	--	4.4	.38	.29	12.3	2.78	2.92	.463	.141	--	4.1	3.08
AUG													
05...	263	--	1.4	--	<.04	21.4	4.83	4.86d	.102	.031	.23	--	.935
05...	236	--	--	--	--	--	--	--	--	--	--	--	--
05...	263	--	--	--	--	--	--	--	--	--	--	--	--
403948099160201 South Channel Platte Trib. nr. Odessa, NE (LAT 40 39 47N LONG 099 16 01W)													
JUN 2003													
24...	--	--	2.0	.29	.23	11.0	2.49	2.68	.611	.186	--	1.8	.619
AUG													
05...	234	2	1.0	--	<.04	10.9	2.46	2.51	.141	.043	.41	--	.846
05...	234	2	--	--	--	--	--	--	--	--	--	--	--
05...	234	2	--	--	--	--	--	--	--	--	--	--	--
404523099253501 Elm Creek-3.6 mi NW of Elm Creek, NE (LAT 40 45 23N LONG 099 25 34W)													
JUN 2003													
23...	--	--	1.2	--	E.02	1.56	.35	.36	.033	.010	--	--	--
JUL													
30...	244	--	1.2	--	<.04	2.02	.46	.47	.046	.014	.59	--	.218
30...	244	--	--	--	--	--	--	--	--	--	--	--	--
30...	244	--	--	--	--	--	--	--	--	--	--	--	--
405041099460501 Buffalo Creek nr. Lexington, NE (LAT 40 50 40N LONG 099 46 04W)													
JUN 2003													
23...	--	--	1.3	--	E.03	.575	.13	.14	.039	.012	--	--	.159
JUL													
29...	224	--	1.6	--	<.04	--	--	.08	--	<.008	.48	--	.429
29...	224	--	--	--	--	--	--	--	--	--	--	--	--
29...	224	--	--	--	--	--	--	--	--	--	--	--	--

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Biomass periphyton, ashfree drymass g/m2 (49954)	Biomass periphyton, ashfree dry wt, DTH, g/m2 (63766)	Biomass periphyton, ash weight, DTH, g/m2 (63765)	Periphyton biomass ash weight, g/m2 (00572)	Biomass periphyton, dry weight, DTH, g/m2 (63767)	Periphyton biomass dry weight, g/m2 (00573)
06788898 Mira Creek nr. North Loup, NE (LAT 41 30 06N LONG 098 47 46W)													
JUN 2003													
20...	.79	1.58	3.8	--	--	--	--	--	--	--	--	--	--
JUL													
27...	.65	1.24	3.1	--	--	--	7.4	--r	--	--	--r	--	--r
27...	--	--	--	--	--	--	--	--	180	7,020	--	7,200	--
27...	--	--	--	--	--	--	--	7.3	--	--	940	--	943.8
06795500 SHELL CREEK NEAR COLUMBUS, NEBR. (LAT 41 31 33N LONG 097 16 53W)													
JUN 2003													
17...	.28	.61	5.5	--	--	--	--	--	--	--	--	--	--
JUL													
22...	.23	.37	3.5	2.9	<.1	2.9	5.4	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	33.4	--	--	680	--	711.3
403559099112201 North Dry Creek at Cnty Rd. 742, Phelps Co., NE (LAT 40 34 59N LONG 099 11 22W)													
JUN 2003													
24...	1.00	1.85	7.3	--	--	--	--	--	--	--	--	--	--
AUG													
05...	.30	.54oc	6.3	1.7	<.1	1.7	6.6	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	198	5,640	--	5,840	--
05...	--	--	--	--	--	--	--	15.9	--	--	270	--	288.6
403948099160201 South Channel Platte Trib. nr. Odessa, NE (LAT 40 39 47N LONG 099 16 01W)													
JUN 2003													
24...	.20	.37	4.7	--	--	--	--	--	--	--	--	--	--
AUG													
05...	.28	.40oc	3.5	2.7	<.1	2.7	6.3	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	218	4,090	--	4,310	--
05...	--	--	--	--	--	--	--	--r	--	--	--r	--	--r
404523099253501 Elm Creek-3.6 mi NW of Elm Creek, NE (LAT 40 45 23N LONG 099 25 34W)													
JUN 2003													
23...	<.02	.141	1.5	--	--	--	--	--	--	--	--	--	--
JUL													
30...	.07	.25	1.7	4.2	<.1	4.1	4.0	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	265	5,180	--	5,450	--
30...	--	--	--	--	--	--	--	16.5	--	--	280	--	297.8
405041099460501 Buffalo Creek nr. Lexington, NE (LAT 40 50 40N LONG 099 46 04W)													
JUN 2003													
23...	.05	.30	1.5	--	--	--	--	--	--	--	--	--	--
JUL													
29...	.14	.47	1.6	4.1	.1	4.0	4.8	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	111	3,940	--	4,050	--
29...	--	--	--	--	--	--	--	15.9	--	--	370	--	382.2

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Biomass chloro-phyll ratio, peri-phyton, number (70950)	Chloro-phyll a peri-phyton, DTH, CF meth mg/m2 (63763)	Pheo-phytn a peri-phyton, DTH, CF meth mg/m2 (63764)	Pheo-phytin a, peri-phyton, mg/m2 (62359)	Pheo-phytin a, phyto-plank-ton, ug/L (62360)	Chloro-phyll a peri-phyton, chromo-fluoro, mg/m2 (70957)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)
06788898 Mira Creek nr. North Loup, NE (LAT 41 30 06N LONG 098 47 46W)									
JUN 2003									
20...	--	--	--	--	--	--	--	--	--
JUL									
27...	--	--	--	--	53.1	--	49.7	360	11
27...	--	13.5	45.1	--	--	--	--	--	--
27...	9,860	--	--	1.2	--	.7	--	--	--
06795500 SHELL CREEK NEAR COLUMBUS, NEBR. (LAT 41 31 33N LONG 097 16 53W)									
JUN 2003									
17...	--	--	--	--	--	--	--	--	--
JUL									
22...	--	--	--	--i	40.2	--i	52.8	31	1.0
22...	--	--i	--i	--	--	--	--	--	--
22...	1,660	--	--	21d	--	20.1d	--	--	--
403559099112201 North Dry Creek at Cnty Rd. 742, Phelps Co., NE (LAT 40 34 59N LONG 099 11 22W)									
JUN 2003									
24...	--	--	--	--	--	--	--	--	--
AUG									
05...	--	--	--	--	14.3	--	18.7	170	9.3
05...	--	17.9	46.8	--	--	--	--	--	--
05...	701	--	--	10d	--	22.7d	--	--	--
403948099160201 South Channel Platte Trib. nr. Odessa, NE (LAT 40 39 47N LONG 099 16 01W)									
JUN 2003									
24...	--	--	--	--	--	--	--	--	--
AUG									
05...	--	--	--	--	21.9	--	23.9	46	1.1
05...	--	125d	187d	--	--	--	--	--	--
05...	--	--	--	9.7d	--	22.1d	--	--	--
404523099253501 Elm Creek-3.6 mi NW of Elm Creek, NE (LAT 40 45 23N LONG 099 25 34W)									
JUN 2003									
23...	--	--	--	--	--	--	--	--	--
JUL									
30...	--	--	--	--	20.9	--	37.7	90	1.3
30...	--	58.0d	82.2d	--	--	--	--	--	--
30...	5,020	--	--	2.2	--	3.3	--	--	--
405041099460501 Buffalo Creek nr. Lexington, NE (LAT 40 50 40N LONG 099 46 04W)									
JUN 2003									
23...	--	--	--	--	--	--	--	--	--
JUL									
29...	--	--	--	--	22.0	--	41.0	403	38
29...	--	27.4	30.8	--	--	--	--	--	--
29...	1,410	--	--	7.1	--	11.3	--	--	--

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Time	Instantaneous discharge, cfs (00061)	Drainage area, mi2 (81024)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
405129099493201 Spring Creek at Cnty. Rd. 761, Dawson Co., NE (LAT 40 51 29N LONG 099 49 32W)													
JUN 2003													
23...	1230	8.3	73	--	689	6.4	82	8.0	961	--	22.4	--	--
JUL													
30...	0800	17	73	120	702	6.9	83	7.5	868	22.0	19.9	230	277
30...	0800	17	73	120	702	6.9	83	7.5	868	22.0	19.9	230	277
30...	0810	17	73	120	702	6.9	83	7.5	868	22.0	19.9	230	277
405205099460401 French Creek nr. Lexington, NE (LAT 40 52 04N LONG 099 46 03W)													
JUN 2003													
23...	1130	24	19	--	689	7.0	92	8.4	792	--	23.6	--	--
JUL													
29...	1100	66	19	50	700	7.9	105	8.3	778	29.0	25.1	171	198
29...	1100	66	19	50	700	7.9	105	8.3	778	29.0	25.1	171	198
29...	1110	66	19	50	700	7.9	105	8.3	778	29.0	25.1	171	198
411320099154301 Mud Creek nr. Mason City, NE (LAT 41 13 19N LONG 099 15 42W)													
JUN 2003													
19...	1630	50	303	--	706	6.9	82	7.7	399	--	19.6	--	--
JUL													
26...	1000	8.1	303	42	714	7.6	95	8.1	602	37.0	23.0	273	332
26...	1000	8.1	303	42	714	7.6	93	8.1	602	37.0	23.0	273	332
26...	1010	8.1	303	42	714	7.6	95	8.1	602	37.0	23.0	273	332
412103098234701 Spring Creek nr. Wolbach, NE (LAT 41 21 03N LONG 098 23 46W)													
JUN 2003													
16...	1730	8.2	168	--	712	7.3	91	7.7	548	--	23.1	--	--
JUL													
24...	1630	2.6	168	17	722	12.0	154	8.3	598	--	25.1	318	368
24...	1630	2.6	168	17	722	12.0	154	8.3	598	--	25.1	318	368
24...	1640	2.6	168	17	722	12.0	154	8.2	598	--	25.1	318	368
412240097205901 Clear Creek nr. Columbus, NE (LAT 41 22 40N LONG 097 20 59W)													
JUN 2003													
17...	1000	35	119	--	723	5.9	67	7.6	594	--	18.9	--	--
JUL													
22...	0800	6.0	119	1.9	730	7.8	87	7.7	554	23.0	18.5	230	281
22...	0800	6.0	119	1.9	730	7.8	87	7.7	554	23.0	18.5	230	281
22...	0810	6.0	119	1.9	730	7.8	87	7.7	554	23.0	18.5	230	281
412258098433301 Davis Creek nr. Scotia, NE (LAT 41 22 57N LONG 098 43 33W)													
JUN 2003													
20...	1130	6.3	67	--	708	7.3	84	7.9	630	--	18.5	--	--
JUL													
27...	1000	3.2	67	34	717	6.8	80	7.6	625	--	20.3	307	374
27...	1000	3.2	67	34	717	6.8	80	7.6	625	--	20.3	307	374
27...	1010	3.2	67	34	717	6.8	80	7.6	625	--	20.3	307	374

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Organic nitrogen, water, unfltrd mg/L (00605)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)
405129099493201 Spring Creek at Cnty. Rd. 761, Dawson Co., NE (LAT 40 51 29N LONG 099 49 32W)													
JUN 2003													
23...	--	1.3	.13	.10	2.23	.50	.57	.227	.069	--	1.2	.886	.29
JUL													
30...	1	1.4	--	E.04	1.93	.44	.46	.076	.023	.71	--	.626	.20
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	1	--	--	--	--	--	--	--	--	--	--	--	--
405205099460401 French Creek nr. Lexington, NE (LAT 40 52 04N LONG 099 46 03W)													
JUN 2003													
23...	--	.90	--	E.02	1.49	.34	.34	.030	.009	--	--	--	<.02
JUL													
29...	--	1.1	--	<.04	--	--	E.04	--	<.008	.74	--	--	<.02
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
411320099154301 Mud Creek nr. Mason City, NE (LAT 41 13 19N LONG 099 15 42W)													
JUN 2003													
19...	--	4.7	.63	.49	11.5	2.60	2.79	.615	.187	--	4.2	2.35	.77
JUL													
26...	--	1.2	--	<.04	3.94	.89	.90	.043	.013	.65	--	1.74	.57
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
412103098234701 Spring Creek nr. Wolbach, NE (LAT 41 21 03N LONG 098 23 46W)													
JUN 2003													
16...	--	1.7	.09	.07	8.77	1.98	2.21	.739	.225	--	1.6	1.01	.33
JUL													
24...	10	.62	--	<.04	3.23	.73	.74	.033	.010	.37	--	.966	.32
24...	10	--	--	--	--	--	--	--	--	--	--	--	--
24...	10	--	--	--	--	--	--	--	--	--	--	--	--
412240097205901 Clear Creek nr. Columbus, NE (LAT 41 22 40N LONG 097 20 59W)													
JUN 2003													
17...	--	.81	--	E.04	17.8	4.02	4.15	.404	.123	--	--	.402	.13
JUL													
22...	--	.29	--	<.04	12.3	2.77	2.82	.158	.048	<.02	--	.396	.13
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
412258098433301 Davis Creek nr. Scotia, NE (LAT 41 22 57N LONG 098 43 33W)													
JUN 2003													
20...	--	.96	.06	.05	5.54	1.25	1.33	.260	.079	--	.91	1.21	.40
JUL													
27...	--	.88	.06	.04	2.33	.53	.54	.043	.013	.35	.83	1.10	.36
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Biomass periphyton, ashfree drymass g/m2 (49954)	Biomass periphyton, ashfree dry wt, DTH, g/m2 (63766)	Biomass periphyton, ash weight, DTH, g/m2 (63765)	Periphyton biomass ash weight, g/m2 (00572)	Biomass periphyton, dry weight, DTH, g/m2 (63767)	Periphyton biomass dry weight, g/m2 (00573)	Biomass chlorophyll ratio, periphyton, number (70950)
405129099493201 Spring Creek at Cnty. Rd. 761, Dawson Co., NE (LAT 40 51 29N LONG 099 49 32W)													
JUN 2003													
23...	.53	1.9	--	--	--	--	--	--	--	--	--	--	--
JUL													
30...	.45	1.9	6.3	.5	5.7	5.4	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	132	4,850	--	4,990	--	--
30...	--	--	--	--	--	--	18.8	--	--	350	--	366.1	927
405205099460401 French Creek nr. Lexington, NE (LAT 40 52 04N LONG 099 46 03W)													
JUN 2003													
23...	.102	1.2	--	--	--	--	--	--	--	--	--	--	--
JUL													
29...	.182	--	5.9	.3	5.6	3.7	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	200	7,940	--	8,140	--	--
29...	--	--	--	--	--	--	17.6	--	--	270	--	284.6	1,380
411320099154301 Mud Creek nr. Mason City, NE (LAT 41 13 19N LONG 099 15 42W)													
JUN 2003													
19...	1.84	7.5	--	--	--	--	--	--	--	--	--	--	--
JUL													
26...	.74	2.1	4.4	<.1	4.4	4.1	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	19.3	--	--	310	--	324.9	955
26...	--	--	--	--	--	--	--	108	4,080	--	4,190	--	--
412103098234701 Spring Creek nr. Wolbach, NE (LAT 41 21 03N LONG 098 23 46W)													
JUN 2003													
16...	.69	3.9	--	--	--	--	--	--	--	--	--	--	--
JUL													
24...	.38	1.4	2.3	<.1	2.3	3.2	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	44.3	--	--	1,200	--	1,275	109
24...	--	--	--	--	--	--	--	175	6,230	--	6,400	--	--
412240097205901 Clear Creek nr. Columbus, NE (LAT 41 22 40N LONG 097 20 59W)													
JUN 2003													
17...	.20	5.0	--	--	--	--	--	--	--	--	--	--	--
JUL													
22...	.157	3.1	<.1	<.1	<.1	2.3	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	16.4	387	--	404	--	--
22...	--	--	--	--	--	--	345.1	--	--	3,700	--	4,033	1,850
412258098433301 Davis Creek nr. Scotia, NE (LAT 41 22 57N LONG 098 43 33W)													
JUN 2003													
20...	.68	2.3	--	--	--	--	--	--	--	--	--	--	--
JUL													
27...	.54	1.4	2.6	<.1	2.6	4.7	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	18.2	--	--	470	--	488.7	326
27...	--	--	--	--	--	--	--	247	5,140	--	5,390	--	--

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Chlorophyll a periphyton, DTH, CF meth mg/m2 (63763)	Pheophytn a periphyton, DTH, CF meth mg/m2 (63764)	Pheophytin a, periphyton, mg/m2 (62359)	Pheophytin a, phytoplankton, ug/L (62360)	Chlorophyll a periphyton, chromofluoro, mg/m2 (70957)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
405129099493201 Spring Creek at Cnty. Rd. 761, Dawson Co., NE (LAT 40 51 29N LONG 099 49 32W)								
JUN 2003								
23...	--	--	--	--	--	--	--	--
JUL								
30...	--	--	--	23.3	--	18.3	245	11
30...	18.8	53.6	--	--	--	--	--	--
30...	--	--	6.8d	--	20.3d	--	--	--
405205099460401 French Creek nr. Lexington, NE (LAT 40 52 04N LONG 099 46 03W)								
JUN 2003								
23...	--	--	--	--	--	--	--	--
JUL								
29...	--	--	--	26.4	--	50.3	170	30
29...	57.0	53.2	--	--	--	--	--	--
29...	--	--	4.6d	--	12.8d	--	--	--
411320099154301 Mud Creek nr. Mason City, NE (LAT 41 13 19N LONG 099 15 42W)								
JUN 2003								
19...	--	--	--	--	--	--	--	--
JUL								
26...	--	--	--	88.9	--	41.7	73	1.6
26...	--	--	16d	--	20.2d	--	--	--
26...	93.0	64.2	--	--	--	--	--	--
412103098234701 Spring Creek nr. Wolbach, NE (LAT 41 21 03N LONG 098 23 46W)								
JUN 2003								
16...	--	--	--	--	--	--	--	--
JUL								
24...	--	--	--	14.6	--	20.2	126	.88
24...	--	--	130d	--	407d	--	--	--
24...	220d	185d	--	--	--	--	--	--
412240097205901 Clear Creek nr. Columbus, NE (LAT 41 22 40N LONG 097 20 59W)								
JUN 2003								
17...	--	--	--	--	--	--	--	--
JUL								
22...	--	--	--	4.0	--	1.5	4	.06
22...	10.4d	22.6d	--	--	--	--	--	--
22...	--	--	180d	--	186d	--	--	--
412258098433301 Davis Creek nr. Scotia, NE (LAT 41 22 57N LONG 098 43 33W)								
JUN 2003								
20...	--	--	--	--	--	--	--	--
JUL								
27...	--	--	--	28.9	--	31.0	625	5.3
27...	--	--	34d	--	55.9d	--	--	--
27...	260d	204d	--	--	--	--	--	--

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Time	Instantaneous discharge, cfs (00061)	Drainage area, mi2 (81024)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
412338097533201 Plum Creek nr. Fullerton, NE (LAT 41 23 37N LONG 097 53 32W)													
JUN 2003													
18...	1300	5.2	120	--	717	6.9	84	8.1	555	--	21.8	--	--
JUL													
24...	0930	.59	120	96	722	7.3	83	8.2	434	30.0	19.0	204	245
24...	0930	.59	120	96	722	7.3	83	8.2	434	30.0	19.0	204	245
24...	0940	.59	120	96	722	7.3	83	8.2	434	30.0	19.0	204	245
412441098033901 Timber Creek nr. Fullerton, NE (LAT 41 24 41N LONG 098 03 38W)													
JUN 2003													
18...	1900	22	139	--	717	6.0	73	8.0	607	--	21.8	--	--
JUL													
24...	1300	1.5	139	160	722	7.5	92	7.9	583	--	23.1	300	361
24...	1300	1.5	139	160	722	7.5	92	7.9	583	--	23.1	300	361
24...	1310	1.5	139	160	722	7.5	92	7.9	583	--	23.1	300	361
412512097055301 Lost Creek nr. Schulyer, NE (LAT 41 25 12N LONG 097 05 53W)													
JUN 2003													
17...	1200	5.4	77	--	723	6.6	86	7.9	348	--	25.8	--	--
JUL													
23...	0800	4.7	77	100	723	7.9	94	7.8	353	23.0	21.6	151	184
23...	0800	4.7	77	100	723	7.9	94	7.8	353	23.0	21.6	151	184
23...	0810	4.7	77	100	723	7.9	94	7.8	353	23.0	21.6	151	184
412546096542001 Skull Creek nr. Linwood, NE (LAT 41 25 45N LONG 096 54 20W)													
JUN 2003													
17...	1300	9.2	75	--	723	6.8	85	7.6	241	--	23.8	--	--
JUL													
21...	1200	2.9	75	8.0	--	--	--	--	--	--	--	262	315
21...	1200	2.9	75	--	--	--	--	--	--	--	--	262	315
21...	1210	2.9	75	8.0	--	--	--	--	--	--	--	262	315
412709097451601 Beaver Creek nr. Genoa, NE (LAT 41 27 09N LONG 097 45 15W)													
JUN 2003													
18...	0930	111	647	--	717	7.7	95	8.2	347	--	22.6	--	--
412829097405601 Looking Glass Creek nr. Genoa, NE (LAT 41 28 29N LONG 097 40 56W)													
JUN 2003													
18...	0800	7.6	69	--	717	6.8	71	7.2	534	--	14.7	--	--
JUL													
23...	1300	7.3	69	7.0	740	7.5	78	7.5	507	29.0	16.0	242	295
23...	1300	7.3	69	7.0	740	7.5	78	7.5	507	29.0	16.0	242	295
23...	1310	7.3	69	7.0	740	7.5	78	7.5	507	29.0	16.0	242	295
413311097171001 Loseke Creek nr. Columbus, NE (LAT 41 33 11N LONG 097 17 10W)													
JUN 2003													
17...	2000	8.4	117	--	723	5.5	70	7.9	755	--	24.2	--	--
JUL													
31...	0800	3.8	117	180	724	5.0	59	7.6	746	18.0	21.2	359	438
31...	0800	3.8	117	180	724	5.0	59	7.6	746	18.0	21.2	359	438
31...	0810	3.8	117	180	724	5.0	59	7.6	746	18.0	21.2	359	438

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Organic nitrogen, water, unfltrd mg/L (00605)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)
412338097533201 Plum Creek nr. Fullerton, NE (LAT 41 23 37N LONG 097 53 32W)													
JUN 2003													
18...	--	2.5	.07	.06	11.5	2.59	2.79	.628	.191	--	2.4	.987	.32
JUL													
24...	2	1.3	--	<.04	4.71	1.06	1.08	.056	.017	.89	--	.972	.32
24...	2	--	--	--	--	--	--	--	--	--	--	--	--
24...	2	--	--	--	--	--	--	--	--	--	--	--	--
412441098033901 Timber Creek nr. Fullerton, NE (LAT 41 24 41N LONG 098 03 38W)													
JUN 2003													
18...	--	1.3	.13	.10	6.85	1.55	1.68	.437	.133	--	1.2	.993	.32
JUL													
24...	2	1.5	--	E.04	2.51	.57	.61	.128	.039	1.03	--	.975	.32
24...	2	--	--	--	--	--	--	--	--	--	--	--	--
24...	2	--	--	--	--	--	--	--	--	--	--	--	--
412512097055301 Lost Creek nr. Schulyer, NE (LAT 41 25 12N LONG 097 05 53W)													
JUN 2003													
17...	--	3.4	.40	.31	1.69	.38	.59	.677	.206	--	3.1	.828	.27
JUL													
23...	--	1.3	--	E.04	.907	.21	.22	.062	.019	.82	--	.616	.20
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
412546096542001 Skull Creek nr. Linwood, NE (LAT 41 25 45N LONG 096 54 20W)													
JUN 2003													
17...	--	12	.76	.59	21.5	4.85	4.98	.421	.128	--	11	.491	.16
JUL													
21...	2	.94	--	<.04	1.96	.44	.48	.118	.036	.29	--	.350	.11
21...	2	--	--	--	--	--	--	--	--	--	--	--	--
21...	2	--	--	--	--	--	--	--	--	--	--	--	--
412709097451601 Beaver Creek nr. Genoa, NE (LAT 41 27 09N LONG 097 45 15W)													
JUN 2003													
18...	--	2.0	--	<.04	--	--	.74	--	<.008	--	--	.901	.29
412829097405601 Looking Glass Creek nr. Genoa, NE (LAT 41 28 29N LONG 097 40 56W)													
JUN 2003													
18...	--	.60	--	E.04n	22.4	5.05	5.07d	.069	.021	--	--	.702	.23
JUL													
23...	--	.24	.07	.05	20.6	4.66	4.72	.207	.063	.19	.19	.803	.26
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413311097171001 Loseke Creek nr. Columbus, NE (LAT 41 33 11N LONG 097 17 10W)													
JUN 2003													
17...	--	1.3	.31	.24	5.50	1.24	1.45	.667	.203	--	1.1	1.01	.33
JUL													
31...	--	3.0	1.25	.97	7.33	1.66	1.94	.930	.283	.68	2.0	1.56	.51
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--	--

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Biomass periphyton, ashfree drymass g/m2 (49954)	Biomass periphyton, ashfree dry wt, DTH, g/m2 (63766)	Biomass periphyton, ash weight, DTH, g/m2 (63765)	Periphyton biomass ash weight, g/m2 (00572)	Biomass periphyton, dry weight, DTH, g/m2 (63767)	Periphyton biomass dry weight, g/m2 (00573)	Biomass chlorophyll ratio, periphyton, number (70950)
412338097533201 Plum Creek nr. Fullerton, NE (LAT 41 23 37N LONG 097 53 32W)													
JUN 2003													
18...	.94	5.3	--	--	--	--	--	--	--	--	--	--	--
JUL													
24...	.51	2.4	4.9	<.1	4.9	6.4	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	100	3,900	--	4,000	--	--
24...	--	--	--	--	--	--	24.9	--	--	600	--	626.7	1,670
412441098033901 Timber Creek nr. Fullerton, NE (LAT 41 24 41N LONG 098 03 38W)													
JUN 2003													
18...	.60	3.0	--	--	--	--	--	--	--	--	--	--	--
JUL													
24...	.59	2.1	5.3	<.1	5.3	4.8	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	36.1	--	--	570	--	603.5	924
24...	--	--	--	--	--	--	--	220	7,580	--	7,800	--	--
412512097055301 Lost Creek nr. Schulyer, NE (LAT 41 25 12N LONG 097 05 53W)													
JUN 2003													
17...	.69	4.0	--	--	--	--	--	--	--	--	--	--	--
JUL													
23...	.41	1.6	6.2	<.1	6.1	6.0+c	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--i	--	--i	--	--
23...	--	--	--	--	--	--	14.6	--	--	390	--	406.6	5,730
412546096542001 Skull Creek nr. Linwood, NE (LAT 41 25 45N LONG 096 54 20W)													
JUN 2003													
17...	3.18	17	--	--	--	--	--	--	--	--	--	--	--
JUL													
21...	.23	1.4	1.5	<.1	1.5v	5.0	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	53.9	1,130	--	1,190	--	--
21...	--	--	--	--	--	--	26.5	--	--	500	--	523.0	5,400
412709097451601 Beaver Creek nr. Genoa, NE (LAT 41 27 09N LONG 097 45 15W)													
JUN 2003													
18...	.95	2.7	--	--	--	--	--	--	--	--	--	--	--
412829097405601 Looking Glass Creek nr. Genoa, NE (LAT 41 28 29N LONG 097 40 56W)													
JUN 2003													
18...	.39oc	5.7	--	--	--	--	--	--	--	--	--	--	--
JUL													
23...	.31	5.0	.5	<.1	.5	1.4	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	226	8,160	--	8,390	--	--
23...	--	--	--	--	--	--	20.6	--	--	320	--	342.2	981
413311097171001 Loseke Creek nr. Columbus, NE (LAT 41 33 11N LONG 097 17 10W)													
JUN 2003													
17...	.49	2.8	--	--	--	--	--	--	--	--	--	--	--
JUL													
31...	.92	4.9	5.4	.3	5.2	10.1	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	157	6,760	--	6,920	--	--
31...	--	--	--	--	--	--	<19.1c	--	--	810	--	819.7	1,840

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Chlorophyll a periphyton, DTH, CF meth mg/m2 (63763)	Pheophytn a periphyton, DTH, CF meth mg/m2 (63764)	Pheophytin a, periphyton, mg/m2 (62359)	Pheophytin a, phytoplankton, ug/L (62360)	Chlorophyll a periphyton, chromofluoro, mg/m2 (70957)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
412338097533201 Plum Creek nr. Fullerton, NE (LAT 41 23 37N LONG 097 53 32W)								
JUN 2003								
18...	--	--	--	--	--	--	--	--
JUL								
24...	--	--	--	29.5	--	5.4	140	.22
24...	38.5	42.4	--	--	--	--	--	--
24...	--	--	15d	--	14.9d	--	--	--
412441098033901 Timber Creek nr. Fullerton, NE (LAT 41 24 41N LONG 098 03 38W)								
JUN 2003								
18...	--	--	--	--	--	--	--	--
JUL								
24...	--	--	--	30.3	--	63.3	200	.81
24...	--	--	30d	--	39.1d	--	--	--
24...	130	133	--	--	--	--	--	--
412512097055301 Lost Creek nr. Schulyer, NE (LAT 41 25 12N LONG 097 05 53W)								
JUN 2003								
17...	--	--	--	--	--	--	--	--
JUL								
23...	--	--	--i	39.2	--i	16.8	134	1.7
23...	--	--	--	--	--	--	--	--
23...	--	--	5.5	--	2.5	--	--	--
412546096542001 Skull Creek nr. Linwood, NE (LAT 41 25 45N LONG 096 54 20W)								
JUN 2003								
17...	--	--	--	--	--	--	--	--
JUL								
21...	--	--	--	15.2	--	14.6	10	.08
21...	14.2	18.8	--	--	--	--	--	--
21...	--	--	7.2	--	4.9	--	--	--
412709097451601 Beaver Creek nr. Genoa, NE (LAT 41 27 09N LONG 097 45 15W)								
JUN 2003								
18...	--	--	--	--	--	--	--	--
412829097405601 Looking Glass Creek nr. Genoa, NE (LAT 41 28 29N LONG 097 40 56W)								
JUN 2003								
18...	--	--	--	--	--	--	--	--
JUL								
23...	--	--	--	3.0	--	3.1	44	.87
23...	189	114	--	--	--	--	--	--
23...	--	--	24d	--	21.0d	--	--	--
413311097171001 Loseke Creek nr. Columbus, NE (LAT 41 33 11N LONG 097 17 10W)								
JUN 2003								
17...	--	--	--	--	--	--	--	--
JUL								
31...	--	--	--	7.2	--	2.1	238	2.5
31...	24.0	53.5	--	--	--	--	--	--
31...	--	--	2.9	--	7.3	--	--	--

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Time	Instantaneous discharge, cfs (00061)	Drainage area, mi2 (81024)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
413548098575901 Dane Creek nr. Ord, NE (LAT 41 35 48N LONG 098 57 58W)													
JUN 2003													
19...	0630	10	25	--	706	4.6	54	7.5	788	--	18.9	--	--
JUL													
27...	1700	2.5	25	63	713	6.6	86	7.7	368	--	25.3	146	178
27...	1700	2.5	25	63	713	6.6	86	7.7	368	--	25.3	146	178
27...	1710	2.5	25	63	713	6.6	86	7.7	368	--	25.3	146	178
413850099402301 Victoria Creek SE of Milburn, NE (LAT 41 38 49N LONG 099 40 22W)													
JUN 2003													
19...	1000	5.1	110	--	706	7.8	91	7.9	403	--	18.7	--	--
JUL													
28...	1600	2.4	110	19	712	10.4	134	8.3	384	28.0	24.5	195	232
28...	1600	2.4	110	19	712	10.4	134	8.3	384	28.0	24.5	195	232
28...	1610	2.4	110	19	712	10.4	134	8.3	384	28.0	24.5	195	232
413931098585901 Turtle Creek nr. Elyria, NE (LAT 41 39 31N LONG 098 58 58W)													
JUN 2003													
19...	0830	3.5	95	--	706	5.5	62	7.6	650	--	17.0	--	--
JUL													
28...	1000	13	95	100	712	6.6	82	7.2	263	23.6	22.6	118	143
28...	1000	13	95	100	712	6.6	82	7.2	263	23.6	22.6	118	143
28...	1010	13	95	100	712	6.6	82	7.2	263	23.6	22.6	118	143
414008098295801 Turkey Creek-3.7 mi SW of St. Paul, NE (LAT 41 10 07N LONG 098 29 57W)													
JUN 2003													
16...	1530	14	74	--	712	7.3	96	8.0	495	--	25.7	--	--
JUL													
25...	1100	37	74	240	713	6.8	85	7.7	337	--	23.0	164	198
25...	1100	37	74	240	713	6.8	85	7.7	337	--	23.0	164	198
25...	1110	37	74	240	713	6.8	85	7.7	337	--	23.0	164	198

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Organic nitrogen, water, unfltrd mg/L (00605)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)
413548098575901 Dane Creek nr. Ord, NE (LAT 41 35 48N LONG 098 57 58W)													
JUN 2003													
19...	--	3.7	1.78	1.38	19.3	4.36	4.65	.946	.288	--	2.3	2.15	.70
JUL													
27...	--	1.3	--	E.02	1.48	.34	.37	.118	.036	.46	--	2.00	.65
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
413850099402301 Victoria Creek SE of Milburn, NE (LAT 41 38 49N LONG 099 40 22W)													
JUN 2003													
19...	--	.68	.14	.11	.673	.15	.18	.095	.029	--	.57	.846	.28
JUL													
28...	3	.52	--	<.04	.686	.15	.17	.043	.013	.19	--	.791	.26
28...	3	--	--	--	--	--	--	--	--	--	--	--	--
28...	3	--	--	--	--	--	--	--	--	--	--	--	--
413931098585901 Turtle Creek nr. Elyria, NE (LAT 41 39 31N LONG 098 58 58W)													
JUN 2003													
19...	--	1.4	.17	.13	6.18	1.40	1.58	.621	.189	--	1.2	1.59	.52
JUL													
28...	.0	1.1	--	<.04	1.31	.29	.31	.039	.012	.62	--	1.18	.38
28...	.0	--	--	--	--	--	--	--	--	--	--	--	--
28...	.0	--	--	--	--	--	--	--	--	--	--	--	--
414008098295801 Turkey Creek-3.7 mi SW of St. Paul, NE (LAT 41 10 07N LONG 098 29 57W)													
JUN 2003													
16...	--	2.2	--	<.04	19.6	4.42	4.67	.841	.256	--	--	1.86	.61
JUL													
25...	.0	1.3	--	<.04	3.63	.82	.83	.036	.011	.91	--	1.29	.42
25...	.0	--	--	--	--	--	--	--	--	--	--	--	--
25...	.0	--	--	--	--	--	--	--	--	--	--	--	--

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Biomass periphyton, ashfree drymass g/m2 (49954)	Biomass periphyton, ashfree dry wt, DTH, g/m2 (63766)	Biomass periphyton, ash weight, DTH, g/m2 (63765)	Periphyton biomass ash weight, g/m2 (00572)	Biomass periphyton, dry weight, DTH, g/m2 (63767)	Periphyton biomass dry weight, g/m2 (00573)	Biomass chlorophyll ratio, periphyton, number (70950)
413548098575901 Dane Creek nr. Ord, NE (LAT 41 35 48N LONG 098 57 58W)													
JUN 2003													
19...	1.19	8.3	--	--	--	--	--	--	--	--	--	--	--
JUL													
27...	.89	1.7	3.2	<.1	3.2	6.6	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	11.3	191	--	202	--	--
27...	--	--	--	--	--	--	12.9	--	--	230	--	245.8	114
413850099402301 Victoria Creek SE of Milburn, NE (LAT 41 38 49N LONG 099 40 22W)													
JUN 2003													
19...	.39	.86	--	--	--	--	--	--	--	--	--	--	--
JUL													
28...	.34	.69	1.5	<.1	1.5	2.4	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	167	4,270	--	4,440	--	--
28...	--	--	--	--	--	--	19.5	--	--	420	--	436.9	915
413931098585901 Turtle Creek nr. Elyria, NE (LAT 41 39 31N LONG 098 58 58W)													
JUN 2003													
19...	.80	3.0	--	--	--	--	--	--	--	--	--	--	--
JUL													
28...	.69	1.5	4.8	.2	4.6	5.3	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	210	6,200	--	6,410	--	--
28...	--	--	--	--	--	--	15.2	--	--	280	--	296.2	3,960
414008098295801 Turkey Creek-3.7 mi SW of St. Paul, NE (LAT 41 10 07N LONG 098 29 57W)													
JUN 2003													
16...	1.06	6.8	--	--	--	--	--	--	--	--	--	--	--
JUL													
25...	.74	2.2	7.2	<.1	7.2	4.9	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	180	6,300	--	6,480	--	--
25...	--	--	--	--	--	--	22.4	--	--	390	--	415.8	501

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Chlorophyll a periphyton, DTH, CF meth mg/m2 (63763)	Pheophytn a periphyton, DTH, CF meth mg/m2 (63764)	Pheophytin a, periphyton, mg/m2 (62359)	Pheophytin a, phytoplankton, ug/L (62360)	Chlorophyll a periphyton, chromofluoro, mg/m2 (70957)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
413548098575901 Dane Creek nr. Ord, NE (LAT 41 35 48N LONG 098 57 58W)								
JUN 2003								
19...	--	--	--	--	--	--	--	--
JUL								
27...	--	--	--	23.8	--	18.5	81	.56
27...	15.4d	27.7d	--	--	--	--	--	--
27...	--	--	150d	--	113d	--	--	--
413850099402301 Victoria Creek SE of Milburn, NE (LAT 41 38 49N LONG 099 40 22W)								
JUN 2003								
19...	--	--	--	--	--	--	--	--
JUL								
28...	--	--	--	6.6	--	6.0	31	.20
28...	104	156	--	--	--	--	--	--
28...	--	--	11d	--	21.3d	--	--	--
413931098585901 Turtle Creek nr. Elyria, NE (LAT 41 39 31N LONG 098 58 58W)								
JUN 2003								
19...	--	--	--	--	--	--	--	--
JUL								
28...	--	--	--	21.0	--	27.5	154	5.3
28...	16.4	37.7	--	--	--	--	--	--
28...	--	--	2.9	--	3.8	--	--	--
414008098295801 Turkey Creek-3.7 mi SW of St. Paul, NE (LAT 41 10 07N LONG 098 29 57W)								
JUN 2003								
16...	--	--	--	--	--	--	--	--
JUL								
25...	--	--	--	14.0	--	7.0	340	34
25...	28.9	34.8	--	--	--	--	--	--
25...	--	--	20d	--	44.7d	--	--	--

Remark codes used in this table:
- < -- Less than
- E -- Estimated value
- M -- Presence verified, not quantified

Value qualifier codes used in this table:
- + -- Improper preservation
- c -- See laboratory comment
- d -- Diluted sample: method hi range exceeded
- n -- Below the LRL and above the LT-MDL
- o -- Result determined by alternate method
- v -- Analyte detected in laboratory blank

Null value qualifier codes used in this table:
- i -- Required sample type not received
- r -- Sample ruined in preparation

COUNTIES.--Colfax, Dodge, and Stanton

MISCELLANEOUS STATION ANALYSES

Date	Begin time	End date	End time	Altitude of land surface feet (72000)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	UV absorbance, 254 nm, wat flt units /cm (50624)	SUVA, 254 nm, abs units/ mgC/L /meter (63162)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
06799750 TRIBUTARY TO SOUTH FORK DRY CREEK, NR SCHUYLER (LAT 41 32 21N LONG 097 08 14W)													
MAY													
2004													
08...	2320	--	--	1,484	--	--	.348	2.2	--	--	--	--	160
10...	0100	20040510	0546	1,484	--	--	.263	2.6	--	--	--	--	120
10...	0148	--	--	1,484	--	--	.192	2.6	--	--	--	--	170
10...	0244	--	--	1,484	--	--	.272	2.7	--	--	--	--	110
10...	0446	--	--	1,484	--	--	.287	2.7	--	--	--	--	150
12...	1220	--	--	1,484	.10	.01	.092	2.0	--	8.5	574	--	470
13...	0450	20040513	0936	1,484	--	--	--u	--u	--	8.0	192	--	180
13...	0554	--	--	1,484	--	--	.137	2.3	--	--	--	--	190
13...	0739	--	--	1,484	--	--	.162	2.6	--	--	--	--	130
22...	1020	--	--	1,484	--	--	.170	2.7	--	--	--	--	390
22...	1831	20040522	2039	1,484	--	--	.229	3.0	--	--	--	--	98
22...	1930	--	--	1,484	--	--	.199	3.1	--	--	--	--	77
22...	2047	20040522	2317	1,484	--	--	.262	3.0	--	--	--	--	88
JUN													
02...	2030	--	--	1,484	--	--	.083	2.3	--	8.2	884	--	430
16...	1026	--	--	1,484	--	--	.081	2.1	8.0	8.3	963	21.3	460
29...	1010	--	--	1,484	--	--	.070	2.1	--	--	--	--	450
JUL													
07...	1447	20040707	1833	1,484	--	--	.166	2.4	--	--	--	--	240
07...	1500	--	--	1,484	--	--	.141	2.6	--	--	--	--	140
07...	1655	--	--	1,484	--	--	.181	2.5	--	--	--	--	310
22...	0905	--	--	1,484	--	--	.288	2.7	--	--	--	--	89
AUG													
25...	1400	--	--	1,484	--	--	.279	3.2	--	--	--	--	81
31...	1030	--	--	1,484	--	--	.105	2.5	--	--	--	--	410
SEP													
23...	0250	20040923	0614	1,484	--	--	.331	2.6	--	--	--	--	170
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
OCT 2003													
28...	1000	20031104	1000	--	--	--	--	--	--	--	--	--	--
APR 2004													
06...	1000	20040413	1000	--	--	--	--	--	--	--	--	--	--
13...	1000	20040420	1000	--	--	--	--	--	--	--	--	--	--
20...	1000	20040427	1000	--	--	--	.011	.7	--	--	--	--	--
MAY													
04...	1000	20040511	1000	--	--	--	.011	.6	--	--	--	--	--
11...	1000	20040518	1000	--	--	--	--	--	--	--	--	--	--
18...	1000	20040525	1000	--	--	--	.009	.6	--	--	--	--	--
25...	1000	20040601	1000	--	--	--	.014	.6	--	--	--	--	--
JUN													
01...	1000	20040608	1000	--	--	--	.011	.5	--	--	--	--	--
15...	1000	20040622	1000	--	--	--	.009	.8	--	--	--	--	--
29...	1000	20040706	1000	--	--	--	.012	1.1	--	--	--	--	--
JUL													
06...	1000	20040713	1000	--	--	--	.008	.6	--	--	--	--	--
13...	1000	20040720	1000	--	--	--	.011	.7	--	--	--	--	--
20...	1000	20040727	1000	--	--	--	.007	.5	--	--	--	--	--
27...	1000	20040803	1000	--	--	--	.009	.5	--	--	--	--	--
AUG													
03...	1000	20040810	1000	--	--	--	.008	.4	--	--	--	--	--
10...	1000	20040817	1000	--	--	--	--	--	--	--	--	--	--
17...	1000	20040824	1000	--	--	--	--	--	--	--	--	--	--

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Noncarb hard-ness, wat flt lab, mg/L as CaCO3 (00905)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alka-linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti-tuents mg/L (70301)
06799750 TRIBUTARY TO SOUTH FORK DRY CREEK, NR SCHUYLER (LAT 41 32 21N LONG 097 08 14W)													
MAY													
2004													
08...	21	47.3	11.1	14.4	.4	10.3	11	143@c	4.94	.6	9.52	20.6	281
10...	37	34.7c	7.72c	9.66c	.3	8.35c	12	82@c	4.06c	.5	8.77c	13.8c	177
10...	10	47.4	12.5	8.32	.5	14.2	15	160@c	5.11	.5	9.81	23.4	243
10...	19	32.0	7.34	9.62	.3	7.89	12	91@c	3.92	.6	8.15	11.9	175
10...	35	43.2	10.4	11.6	.3	9.12	11	116@c	4.42	.6	9.87	15.3	246
12...	--	132	34.1	7.08	.8	38.1	15	--	11.3	.4	24.2	56.8	--
13...	32	50.3	13.6	8.62	.4	13.3	13	149@c	5.92c	.4	75.9	22.3c	322
13...	21	54.0	14.1	6.40	.5	15.6	14	172@c	5.95	.4	9.69	24.1	268
13...	20	37.6	8.80	7.39	.4	10.4	14	110@c	5.39	.5	6.68	16.1	201
22...	85	114	26.5	12.5	.6	26.5	12	309@c	8.52	.5	17.6	50.7	539
22...	35	28.5	6.59	8.91	.3	5.81	10	64@c	2.72	.6	8.10	10.3	159
22...	14	21.9	5.42	7.38	.3	5.08	11	63@c	2.15	.5	7.52	9.8	129
22...	31	25.9	5.57	9.33	.2	3.50	7	57@c	1.78c	.5	7.88	7.8c	140
JUN													
02...	120	116c	33.2c	6.12c	.8	35.9c	15	309@c	12.5c	.4	17.5c	63.7c	548
16...	75	128	34.3	4.99	.8	38.8	15	386@c	12.2	.4	22.3	58.8	605
29...	240	126	32.8	4.68	.8	39.2	16	214@c	12.6	.4	21.5	61.5	511
JUL													
07...	23	68.3	17.0	8.55	.6	21.1	15	218@c	8.88	.6	12.9	36.4	344
07...	15	38.2	10.1	6.41	.4	12.0	15	122@c	5.43	.6	9.11	22.3	211
07...	18	88.9	22.3	10.4	.7	27.3	15	296@c	11.3	.6	15.8	48.5	447
22...	--	25.8	5.92	7.21	.4	8.94	17	90@c	5.24	.6	6.83	13.9	144
AUG													
25...	5	23.7	5.18	6.97	.3	6.22	13	75@c	2.66	.6	8.39	12.4	121
31...	160	108c	33.4c	5.85c	.8	37.5c	16	248@c	10.8	.4	24.7c	57.7	505
SEP													
23...	--	43.6	15.8	19.8	.6	17.9	16	187@c	11.9	.3	8.26	22.5	283
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
OCT 2003													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 2004													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNI—AGRICULTURAL CHEMICAL TRANSPORT STUDY
SURFACE WATER/RAINFALL—Continued

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Residue water, fltrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Partic-ulate nitro-gen, susp, water, mg/L (49570)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)
06799750 TRIBUTARY TO SOUTH FORK DRY CREEK, NR SCHUYLER (LAT 41 32 21N LONG 097 08 14W)													
MAY													
2004													
08...	.39	290	7.45	5.79d	66.4	15.0	15.4d	1.29	.392	8.06	.745	.243d	2.86doc
10...	.27	199	2.17	1.69d	37.0	8.36	8.58d	.726	.221	2.19	.610	.199d	6.67doc
10...	.36	265	.98	.76	24.7	5.59	5.69d	.325	.099	1.20	.239	.078	4.36doc
10...	.27	199	2.21	1.72d	34.6	7.81	8.01d	.670	.204	.79	.702	.229d	8.39doc
10...	.36	262	4.23	3.28d	65.6	14.8	15.2d	1.38	.420	.81	.809	.264d	3.23doc
12...	--	421	.60	.47	69.8	15.8	16.0d	.769	.234	.41	.475	.155	.22oc
13...	.75	554	.65	.51	34.5	7.79	7.85d	.174	.053	8.72	2.82	.919d	3.70doc
13...	.38	278	.55	.43	33.4	7.55	7.60d	.174	.053	6.13	.282	.092	2.75doc
13...	.28	207	1.39	1.08	40.0	9.04	9.14d	.332	.101	15.3	.595	.194d	5.15doc
22...	.77	569	.65	.51	95.4	21.5	21.7d	.496	.151	.93	.475	.155	.48oc
22...	.25	182	.77	.60	48.0	10.9	10.9d	.237	.072	34.7	.337	.110	11.7doc
22...	.20	144	.50	.39	30.5	6.89	6.95d	.181	.055	39.3	.144	.047	.148
22...	.24	179	.82	.63	42.4	9.57	9.66d	.279	.085	28.7	.359	.117	10.1doc
JUN													
02...	.67	492	--	<.04	77.3	17.5	17.5d	.161	.049	.13	.254	.083	.118
16...	.62	455	--	<.20d	71.9	16.2	16.7d	1.53	.466d	.05	.337	.110	.149
29...	.63	462	--	E.02n	82.0	18.5	18.9d	1.15	.350	.08	.331	.108	.132
JUL													
07...	.49	362	1.01	.78	37.9	8.56	8.71d	.483	.147	4.75	.448	.146	1.08oc
07...	.30	220	2.30	1.78d	31.3	7.06	7.21d	.506	.154	14.8	.190	.062	1.53oc
07...	.63	464	.25	.19	42.8	9.66	9.79d	.424	.129	1.30	.665	.217d	.44oc
22...	.21	152	--	<.04	14.4	3.24	3.35	.365	.111	2.82	1.11	.363d	1.73oc
AUG													
25...	.17	125	--	<.04	8.66	1.96	1.99	.112	.034	4.29	.589	.192	E.88oc
31...	.61	449	--	E.04n	77.2	17.4	17.5d	.263	.080	.17	.282	.092	.137
SEP													
23...	.39	285	.12	.10	22.5	5.08	5.21d	.430	.131	.56	7.28	2.38doc	.60oc
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
OCT 2003													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR 2004													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
SURFACE WATER/RAINFALL—Continued

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Total nitrogen, wat unf by analysis, mg/L (62855)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	1-Naphthol, water, fltrd 0.7u GF ug/L (49295)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Et-6-Me-Ph)--amino]propan-1-ol, ug/L (61615)	2-[(2-Ethyl-6methyl phenyl)amino]2 oxoESA ug/L (62850)	2Chloro-2,6'-'diethyl acetanilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl-6-methylaniline water, fltrd, ug/L (61620)
06799750 TRIBUTARY TO SOUTH FORK DRY CREEK, NR SCHUYLER (LAT 41 32 21N LONG 097 08 14W)													
MAY													
2004													
08...	31.7d	84.6	.7	83.9	10	40.4	<.09	<.006	--	.35	<.016	E.212	E.028
10...	22.3d	16.4	.2	16.3	8c	1.5c	<.09	<.006	--	.15	<.009	E1.44	E.010
10...	15.6d	9.4	.2	9.2	E4n	1.6	<.09	<.006	--	.07	<.005	E.437	E.004
10...	22.7d	5.0	.2	4.8	E4n	.9	<.09	<.006	--	.16	<.009	E1.64	E.012
10...	27.4d	5.6	.2	5.4	8	1.1	<.09	<.006	--	.25	<.010	E1.67	E.017
12...	15.9d	1.7	<.1	1.7	<6	16.0	<.09	<.006	--	.03	<.005	E.091	E.002
13...	15.1d	68.9	3.9	65.1	3,900	303	<.09	<.006	--	.19	<.005	E.711	E.003
13...	14.1d	44.2	5.1	39.0	8	14.6	<.09	<.006	--	.11	<.005	E.471	E.002
13...	17.7d	104	3.3	101	10	4.0	<.09	<.006	--	.47	<.005	E1.25	E.007
22...	24.1d	8.3	<.1	8.2	<6	156	<.09	<.006	--	.53	<.005	E.506	<.004
22...	31.3d	275	3.6	272	8	4.8	<.09	<.006	--	.24	<.005	E1.04	<.004
22...	17.9d	316	6.4	310	10	2.8	<.09	<.006	--	.17	<.005	E.686	<.004
22...	12.1d	233	5.9	227	23	.8	<.09	<.006	--	.17	<.005	E1.41	<.004
JUN													
02...	18.1d	.8	<.1	.8	<6c	7.8c	--u	<.006	--	.03	<.005	E.030	<.004
16...	17.3d	.5	<.1	.5	E4n	20.8	<.09	<.006	--	<.02	<.005	E.026	<.004
29...	20.4d	.4	<.1	.4	E4n	2.6	<.09	<.006	--	.04	<.005	E.006	<.004
JUL													
07...	14.2d	36.4	<.1	36.3	E3n	10.5	<.09	<.006	--	.09	<.005	E.191	<.004
07...	19.3d	111	1.0	110	E3n	1.2	<.09	<.006	--	.10	<.005	E.405	<.004
07...	10.9d	6.4	<.1	6.4	E6n	54.0	<.09	<.006	--	<.02	<.005	E.071	<.004
22...	9.86d	21.6	.8	20.7	13	9.2	<.09	<.006	--	.17	<.005	E.073	<.004
AUG													
25...	4.24	31.8	<.1	31.7	22	1.0	<.09	<.006	--	.35	<.005	E.077	<.004
31...	16.6d	1.5	<.1	1.5	<6c	23.3c	<.09	<.006	--	<.02	<.005	E.003n	<.004
SEP													
23...	2.90	3.7	<.1	3.6	30	208	<.09	<.006	--	<.02	<.005	E.044	<.004
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
OCT 2003													
28...	--	--	--	--	--	--	<.09	<.006	<.1	<.02	<.005	<.006	<.004
APR 2004													
06...	--	--	--	--	--	--	<.09	<.006	--	--	<.005	<.006	<.004
13...	--	--	--	--	--	--	<.09	<.006	--	--	<.005	E.273	<.004
20...	--	--	--	--	--	--	<.09	<.006	--	<.02	<.005	E.092	<.004
MAY													
04...	--	--	--	--	--	--	<.09	<.006	--	<.02	.006	E.189	<.004
11...	--	--	--	--	--	--	<.09	<.006	--	--	.009	E.070	<.004
18...	--	--	--	--	--	--	<.09	<.006	--	<.02	<.005	E.077	<.004
25...	--	--	--	--	--	--	<.09	<.006	--	<.02	.009	E.147	<.004
JUN													
01...	--	--	--	--	--	--	<.09	<.006	--	<.02	<.005	E.074	<.004
15...	--	--	--	--	--	--	<.09	<.006	--	<.02	<.005	E.036	<.004
29...	--	--	--	--	--	--	<.09	<.006	--	<.02	<.005	E.017	<.004
JUL													
06...	--	--	--	--	--	--	<.09	<.006	--	<.02	<.005	E.006	<.004
13...	--	--	--	--	--	--	<.09	<.006	--	<.02	<.005	E.033	<.004
20...	--	--	--	--	--	--	<.09	<.006	--	<.02	<.005	E.022	<.004
27...	--	--	--	--	--	--	<.09	<.006	--	<.02	<.005	E.019	<.004
AUG													
03...	--	--	--	--	--	--	<.09	<.006	--	<.02	<.005	E.019	<.004
10...	--	--	--	--	--	--	<.09	<.006	--	--	<.005	<.006	<.004
17...	--	--	--	--	--	--	--	--	--	<.02	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNI—AGRICULTURAL CHEMICAL TRANSPORT STUDY
SURFACE WATER/RAINFALL—Continued

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	3,4-Di-chloro-aniline water fltrd, ug/L (61625)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto-chlor ESA, water, fltrd 0.7u GF ug/L (61029)	Aceto-chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto-chlor SAA, water, fltrd, ug/L (62847)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor ESA SA, water, fltrd, ug/L (62849)	Ala-chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala-chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala-chlor SAA, water, fltrd, ug/L (62848)	Ala-chlor, water, fltrd, ug/L (46342)	Amino-methyl-phos-phonic acid, wat flt ug/L (62649)	Atra-zine, water, fltrd, ug/L (39632)
06799750 TRIBUTARY TO SOUTH FORK DRY CREEK, NR SCHUYLER (LAT 41 32 21N LONG 097 08 14W)													
MAY													
2004													
08...	<.004	<.006	8.14	15.0	8.34	E215	<.02	.11	.11	2.27	<.005	1.6	E191
10...	<.004	<.006	5.07	10.0	5.92	E49.0	<.02	.08	.06	1.14	.126	.8	E58.4
10...	<.004	<.006	1.27	1.99	.78	11.5	<.02	<.02	.02	.29	.132	.8	15.6
10...	<.004	<.006	4.04	9.16	5.36	E49.2	.14	.03	.05	1.13	.156	1.0	E58.6
10...	<.004	<.006	7.04	15.4	8.47	E73.3	.09	.12	.10	2.01	.110	1.0	E85.6
12...	<.004	<.006	.49	.69	.09	3.03	<.02	.09	.03	.06	.015	--	4.65
13...	<.004	<.006	2.58	5.78	2.99	9.26	<.02	.04	.04	.88	.035	.8	16.8
13...	<.004	<.006	2.21	4.26	1.53	5.23	<.02	.05	.02	.60	.030	.7	9.04
13...	<.004	<.006	5.48	13.0	6.94	E33.5	<.02	.17	.19	2.79	.041	.8	E50.0
22...	<.004	<.006	5.38	13.0	5.44	3.03	<.02	.03	.05	1.29	.045	.7	5.27
22...	<.004	<.006	4.30	12.0	6.33	5.40	<.02	.03	.05	1.43	.062	.5	9.16
22...	<.004	<.006	2.15	5.97	1.91	3.35	<.02	<.02	.02	.74	.073	.4	4.64
22...	<.004	<.006	10.0	6.08	3.51	5.14	<.02	.02	.04	1.21	.071	.7	11.2
JUN													
02...	<.004	--u	.19	.20	<.02	.189	<.02	<.02	<.02	<.02	.007	.2	.371
16...	<.004	<.006	<.02	<.02	<.02	.045	<.02	<.02	<.02	<.02	<.005	.7	.178
29...	<.004	<.006	.12	.05	<.02	.014	<.02	.02	<.02	<.02	<.005	1.2	.058
JUL													
07...	<.004	<.006	.79	.89	.17	.696	.03	.10	.04	<.02	<.005	5.4	1.11
07...	<.004	<.006	.81	1.13	.28	1.84	.02	.06	.03	<.02	<.005	1.4	2.58
07...	<.004	<.006	.39	.44	<.02	E.082	.03	.03	.04	<.02	<.005	5.2	.224
22...	<.004	<.006	.71	.79	.24	.054	<.02	.09	.05	<.02	.012	2.3	.149
AUG													
25...	<.004	<.006	1.53	1.65	.45	.021	<.02	<.02	.02	<.02	<.005	1.7	.102
31...	<.004	<.006	.19	.10	<.02	<.006	.02	.04	.02	<.02	<.005	<.1	.012
SEP													
23...	<.004	<.006	.28	.26	<.02	<.050c	<.02	.04	<.02	<.02	<.005	.3	.073
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
OCT 2003													
28...	<.004	<.006	<.02	<.02	<.02	<.006	<.02	<.02	<.02	<.02	<.005	--	.009
APR 2004													
06...	<.004	<.006	--	--	--	.118	--	--	--	--	.007	--	.020
13...	.013	<.006	--	--	--	4.39	--	--	--	--	.278	--	19.0
20...	<.004	<.006	<.02	<.02	<.02	1.73	<.02	<.02	<.02	<.02	.070	--	.918
MAY													
04...	<.004	<.006	<.02	<.02	<.02	2.03	<.02	<.02	<.02	<.02	.282	--	2.83
11...	<.004	<.006	--	--	--	1.08	--	--	--	--	.145	--	1.02
18...	<.004	<.006	<.02	<.02	<.02	.331	<.02	<.02	<.02	<.02	.176	--	.725
25...	<.004	<.006	<.02	<.02	<.02	.162	<.02	<.02	<.02	<.02	.216	--	1.05
JUN													
01...	<.004	<.006	<.02	<.02	<.02	.177	<.02	<.02	<.02	<.02	.089	--	.462
15...	<.004	<.006	<.02	<.02	<.02	.079	<.02	<.02	<.02	<.02	.035	--	.129
29...	<.004	<.006	<.02	<.02	<.02	.076	<.02	<.02	<.02	<.02	.024	--	.065
JUL													
06...	<.004	<.006	<.02	<.02	<.02	.020	<.02	.02	<.02	<.02	.006	--	.045
13...	<.004	<.006	<.02	<.02	<.02	.038	<.02	<.02	<.02	<.02	<.015c	--	.135
20...	<.004	<.006	<.02	<.02	<.02	.026	<.02	<.02	<.02	<.02	.010	--	.032
27...	<.004	<.006	<.02	<.02	<.02	.022	<.02	<.02	<.02	<.02	.016	--	.053
AUG													
03...	<.004	<.006	<.02	<.02	<.02	<.150	<.02	<.02	<.02	<.02	.012	--	.046
10...	<.004	<.006	--	--	--	.013	--	--	--	--	.008	--	.008
17...	--	--	<.02	<.02	<.02	--	<.02	<.02	<.02	<.02	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
SURFACE WATER/RAINFALL—Continued

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Azinphosmethyl oxon, water, fltrd, ug/L (61635)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cyfluthrin, water, fltrd, ug/L (61585)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon oxon, water, fltrd, ug/L (61638)	Diazinon, water, fltrd, ug/L (39572)
06799750 TRIBUTARY TO SOUTH FORK DRY CREEK, NR SCHUYLER (LAT 41 32 21N LONG 097 08 14W)													
MAY													
2004													
08...	<.02	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005
10...	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005
10...	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005
10...	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005
10...	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	.009
12...	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005
13...	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005
13...	<.04	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005
13...	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	E.003t	<.01	<.006
22...	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	E.004t	<.01	<.005
22...	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005
22...	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005
22...	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	E.006t	<.01	<.005
JUN													
02...	--u	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005
16...	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005
29...	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005
JUL													
07...	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.009
07...	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005
07...	<.07	<.050	<.010	<.041	<.06	<.005	<.007	<.008	<.009	<.003	<.012	<.01	<.005
22...	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	.004	E.007n	<.01	<.009
AUG													
25...	<.07	<.050	<.010	<.041	<.06	.010	<.006	<.008	<.009	<.003	<.012	<.01	<.005
31...	<.07	<.050	<.010	<.041	<.06	E.004n	<.006	<.008	<.009	<.003	<.012	<.01	<.005
SEP													
23...	<.07	<.050	<.010	<.041	<.06	<.008c	<.006	<.008	<.009	<.003	<.012	<.01	<.150c
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
OCT 2003													
28...	<.03	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	.004	<.012	<.01	<.005
APR 2004													
06...	<.02	<.050	<.010	<.041	<.01	<.005	<.006	<.008	<.009	E.001t	<.012	<.01	<.005
13...	<.02	<.050	<.010	<.041	<.06	.007	<.006	<.008	<.009	E.002t	<.012	<.01	<.005
20...	<.02	<.050	<.010	<.041	<.06	E.002t	<.006	<.008	<.009	E.001t	<.012	<.01	<.005
MAY													
04...	<.02	<.050	<.010	<.041	<.06	E.003n	<.006	<.008	<.009	E.001t	<.012	<.01	<.005
11...	<.02	<.050	<.010	E.007t	<.06	.009	<.006	<.008	<.009	.005	<.012	<.01	<.005
18...	<.02	<.050	<.010	<.041	<.06	E.005	<.006	<.008	<.009	E.001t	<.012	<.01	<.005
25...	<.02	<.050	<.010	E.024n	<.06	.008	<.006	<.008	<.009	.004	<.012	<.01	<.005
JUN													
01...	<.02	<.050	<.010	<.041	<.06	.017	<.006	<.008	<.009	E.002t	<.012	<.01	<.005
15...	<.02	<.050	<.010	E.015t	<.06	.011	<.006	<.008	<.009	.004	<.012	<.01	<.007
29...	<.02	<.050	<.010	<.041	<.06	.006	<.006	<.008	<.009	.004	<.012	<.01	<.005
JUL													
06...	<.07	<.050	<.010	<.041	<.06	E.004n	<.006	<.008	<.009	E.001t	<.012	<.01	<.005
13...	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005
20...	<.07	<.050	E.006n	<.041	E.01t	.008	<.006	<.008	<.009	.004	<.012	<.01	<.005
27...	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	.007	<.012	<.01	<.005
AUG													
03...	<.07	<.050	<.010	<.041	<.06	.025	<.006	<.008	<.009	.005	<.012	<.01	<.005
10...	<.07	<.050	<.010	<.041	<.06	.193	<.006	<.008	<.009	<.003	<.012	<.01	<.005
17...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNI—AGRICULTURAL CHEMICAL TRANSPORT STUDY
SURFACE WATER/RAINFALL—Continued

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethenamid ESA, water, fltrd, ug/L (61951)	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethenamid water, fltrd, ug/L (61588)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulfinylfipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)
06799750 TRIBUTARY TO SOUTH FORK DRY CREEK, NR SCHUYLER (LAT 41 32 21N LONG 097 08 14W)													
MAY													
2004													
08...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
10...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
10...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
10...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
10...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
12...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
13...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	--u	<.03	<.029	<.013
13...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	--u	<.03	<.029	<.013
13...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	--u	<.03	<.029	E.005t
22...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	E.002t
22...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
22...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
22...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
JUN													
02...	--u	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	--u	<.03	<.029	<.013
16...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
29...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
JUL													
07...	<.08	<.009	<.02	<.02	.24	<.006	<.01	<.004	<.049	<.04	<.03	<.029	<.013
07...	<.08	<.009	.03	.16	.60	<.006	<.0020	<.004	<.049	<.04	<.03	<.029	<.013
07...	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03	<.029	<.013
22...	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03	E.002t	E.008n
AUG													
25...	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.015c	<.049	<.04	<.03	<.029	<.013
31...	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03	<.029	<.013
SEP													
23...	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03	<.029	<.013
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
OCT 2003													
28...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
APR 2004													
06...	<.08	<.009	--	--	--	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
13...	<.08	<.009	--	--	--	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
20...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
MAY													
04...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
11...	<.08	<.009	--	--	--	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
18...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
25...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
JUN													
01...	<.08	<.009	<.02	<.02	<.02	<.025c	<.03	<.004	<.008	<.03	<.03	<.029	<.013
15...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
29...	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013
JUL													
06...	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03	<.029	<.013
13...	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03	<.029	<.013
20...	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03	<.029	<.013
27...	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03	<.029	<.013
AUG													
03...	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03	E.014t	<.013
10...	<.08	<.009	--	--	--	<.006	<.0020	<.004	<.049	<.04	<.03	<.029	<.013
17...	--	--	<.02	<.02	<.02	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
SURFACE WATER/RAINFALL—Continued

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufenacet OA, water, fltrd, ug/L (62483)	Flufenacet, water, fltrd, ug/L (62481)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Glufosinate, water, fltrd 0.7u GF ug/L (62721)	Glyphosate, water, fltrd 0.7u GF ug/L (62722)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)
06799750 TRIBUTARY TO SOUTH FORK DRY CREEK, NR SCHUYLER (LAT 41 32 21N LONG 097 08 14W)													
MAY													
2004													
08...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.7	<.013	<1	<.003	--u
10...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.2	<.013	<1	<.003	<.010
10...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.2	<.013	<1	<.003	<.010
10...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.3	<.013	<1	<.003	<.008
10...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.3	<.013	<1	<.003	<.008
12...	E.005t	<.016	<.02	<.02	<.02	<.002	<.003	--	--	<.013	<1	<.003	<.008
13...	E.010t	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.1	<.013	<1	<.003	<.010
13...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.1	<.013	<1	<.003	<.008
13...	E.014n	E.009n	<.02	<.02	<.02	<.002	<.003	<.1	.3	<.013	<1	<.003	<.008
22...	E.013n	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.2	<.013	<1	<.003	<.008
22...	E.022n	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.1	<.013	<1	<.003	<.008
22...	E.022n	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1	<.003	<.008
22...	E.014n	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.2	<.013	<1	<.003	<.008
JUN													
02...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1	<.003	<.008
16...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.7	<.013	<1	<.003	<.008
29...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	1.0	<.013	<1	<.003	<.008
JUL													
07...	<.024	<.016	<.02	<.02	<.02	<.003	<.003	<.1	4.5	<.013	<.387	<.003	<.030
07...	<.024	<.016	<.02	<.02	<.02	<.003	<.003	<.1	1.0	<.013	<.387	<.003	<.030
07...	<.024	<.016	<.02	<.02	<.02	<.003	<.003	<.1	9.7	<.013	<.387	<.003	<.030
22...	E.014n	<.016	<.02	<.02	<.02	<.003	<.003	<.1	1.4	<.013	<.387	<.003	<.030
AUG													
25...	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	.3	<.013	<.387	<.003	<.030
31...	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	<.1	<.013	<.387	<.003	<.030
SEP													
23...	<.024	<.016	<.02	<.02	<.02	<.003	<.003	<.1	<.1	<.013	<.387	<.003	<.030
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
OCT 2003													
28...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	--	--	<.013	<1	<.003	.046
APR 2004													
06...	<.024	<.016	--	--	--	<.002	<.003	--	--	<.013	<1	<.003	<.008
13...	<.024	E.017	--	--	--	<.002	<.003	--	--	<.013	<1	<.003	<.008
20...	<.024	<.016	<.02	<.02	.04	<.002	<.003	--	--	<.013	<1	<.003	<.008
MAY													
04...	<.024	<.016	<.02	<.02	.05	<.002	<.003	--	--	<.013	<1	<.003	<.008
11...	<.024	<.016	--	--	--	<.002	<.003	--	--	<.013	<1	<.003	<.008
18...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	--	--	<.013	<1	<.003	<.008
25...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	--	--	<.013	<1	<.003	<.008
JUN													
01...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	--	--	<.013	<1	<.003	<.008
15...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	--	--	<.013	<1	<.003	<.008
29...	<.024	<.016	<.02	<.02	<.02	<.002	<.003	--	--	<.013	<1	<.003	<.008
JUL													
06...	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387	<.003	<.030
13...	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387	<.003	<.030
20...	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387	<.003	<.030
27...	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387	<.003	<.030
AUG													
03...	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387	<.003	<.030
10...	<.024	<.016	--	--	--	<.003	<.003	--	--	<.013	<.387	<.003	<.030
17...	--	--	<.02	<.02	<.02	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNI—AGRICULTURAL CHEMICAL TRANSPORT STUDY
SURFACE WATER/RAINFALL—Continued

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Malathion, water, fltrd, ug/L (39532)	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metolachlor OA, water, fltrd 0.7u GF ug/L (61044)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Myclobutanil water, fltrd, ug/L (61599)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)
06799750 TRIBUTARY TO SOUTH FORK DRY CREEK, NR SCHUYLER (LAT 41 32 21N LONG 097 08 14W)													
MAY													
2004													
08...	<.027	<.010	<.006	<.03	<.015	.08	.04	.330	<.006	<.008	<.022	<.10	<.011
10...	<.027	--u	<.006	<.03	<.015	.07	.05	.308	<.006	<.008	<.022	<.10	<.011
10...	<.027	--u	<.006	<.03	<.015	.19	.12	.368	<.006	<.008	<.022	<.10	<.011
10...	<.027	--u	<.006	<.03	<.015	.08	.05	.318	<.006	<.008	<.022	<.10	<.011
10...	<.027	--u	<.006	<.03	<.015	.10	.05	.246	<.006	<.008	<.022	<.10	<.011
12...	<.027	<.005	<.006	<.03	<.015	.14	.03	.041	<.006	<.008	<.022	<.10	<.011
13...	<.027	<.005	<.006	<.03	<.015	.09	.07	.150	<.006	<.008	<.022	<.10	<.011
13...	<.027	<.005	<.006	<.03	<.015	.11	.09	.144	<.006	<.008	<.022	<.10	<.011
13...	<.027	<.005	<.006	<.03	<.015	.07	.03	.163	<.006	<.008	<.022	<.10	<.011
22...	<.027	<.005	<.006	<.03	<.015	.15	.06	.100	<.006	<.008	<.022	<.10	<.011
22...	<.027	<.005	<.006	<.03	<.015	.09	.08	.154	<.006	<.008	<.022	<.10	<.011
22...	<.027	<.005	<.006	<.03	<.015	.15	.17	.258	<.006	<.008	<.022	<.10	<.011
22...	<.027	<.005	<.006	<.03	<.015	.08	.04	.161	<.006	<.008	<.022	<.10	<.011
JUN													
02...	<.027	<.005	<.006	--u	<.015	.09	.02	E.013n	<.006	<.008	<.022	<.10	<.011
16...	<.027	<.005	<.006	<.03	<.015	<.02	<.02	E.009n	<.006	<.008	<.022	<.10	<.011
29...	<.027	<.005	<.006	<.03	<.015	.05	.02	<.013	<.006	<.008	<.022	<.10	<.011
JUL													
07...	<.027	<.400	<.006	<.03	<.015	.14	.06	.272	.009	<.008	<.022	<.10	<.011
07...	<.027	<.005	<.006	<.03	<.015	.16	.10	.732	.010	<.008	<.022	<.10	<.011
07...	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.035	<.009	<.008	<.022	<.10	<.011
22...	<.027	<.005	<.006	<.03	<.019	<.02	.02	.019	.010	<.008	<.022	<.10	<.011
AUG													
25...	<.027	<.005	<.006	<.03	<.015	.14	.08	E.009n	<.006	<.008	<.022	<.10	<.011
31...	<.027	<.005	<.006	<.03	<.015	.21	.04	<.013	<.006	<.008	<.022	<.10	<.011
SEP													
23...	<.027	<.600c	<.006	<.03	<.015	.13	.06	.021	<.006	<.008	<.022	<.10	<.011
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
OCT 2003													
28...	E.007t	<.005	<.006	<.03	<.015	<.02	<.02	E.007n	<.006	<.008	<.022	<.10	<.011
APR 2004													
06...	<.027	<.005	<.006	<.03	<.015	--	--	.053	<.006	<.008	.025	<.10	<.011
13...	<.027	<.005	<.006	<.03	<.015	--	--	1.76	.103	<.008	E.044	<.10	<.011
20...	<.027	<.005	<.006	<.03	<.015	<.02	<.02	.210	<.006	<.008	.029	<.10	<.011
MAY													
04...	<.027	<.005	<.006	<.03	<.015	<.02	<.02	.384	<.006	<.008	<.022	<.10	<.011
11...	<.027	<.005	<.006	<.03	<.015	--	--	.251	<.006	<.008	.024	<.10	<.011
18...	<.027	<.005	<.006	<.03	<.015	<.02	<.02	.279	<.006	<.008	E.012n	<.10	<.011
25...	<.027	<.005	<.006	<.03	<.015	<.02	<.02	.149	<.006	<.008	.028	<.10	<.011
JUN													
01...	<.027	<.005	<.006	<.03	<.015	<.02	<.02	.126	<.006	<.008	.046	<.10	<.011
15...	E.009t	<.005	<.006	<.03	<.015	<.02	<.02	.041	<.006	<.008	E.008t	<.10	<.011
29...	<.027	<.005	<.006	<.03	<.015	<.02	<.02	.040	<.006	<.008	<.022	<.10	<.011
JUL													
06...	<.027	<.005	<.006	<.03	<.015	<.02	<.02	E.009n	<.006	<.008	<.022	<.10	<.011
13...	<.027	<.005	<.006	<.03	<.015	<.02	<.02	E.011n	<.006	<.008	<.022	<.10	<.011
20...	<.027	<.005	<.006	<.01n	.036	<.02	<.02	E.009n	<.006	<.008	<.022	<.10	<.011
27...	<.027	<.005	<.006	<.03	.017	<.02	<.02	.014	<.006	<.008	<.022	<.10	<.011
AUG													
03...	<.027	<.005	<.006	<.03	<.015	<.02	<.02	E.011n	<.006	<.008	<.022	<.10	<.011
10...	<.027	<.005	<.006	<.03	<.015	--	--	E.008n	<.006	<.008	<.022	<.10	<.011
17...	--	--	--	--	--	<.02	<.02	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
SURFACE WATER/RAINFALL—Continued

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prome-ton, water, fltrd, ug/L (04037)	Prome-tryn, water, fltrd, ug/L (04036)	Propy-zamide, water, fltrd 0.7u GF ug/L (82676)	Propa-chlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propa-chlor OA, water, fltrd 0.7u GF ug/L (62767)	Sima-zine, water, fltrd, ug/L (04035)	Tebu-thiuron water fltrd 0.7u GF ug/L (82670)	Ter-bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu-fos, water, fltrd 0.7u GF ug/L (82675)	Ter-buthyl-azine, water, fltrd, ug/L (04022)	Tri-flur-alin, water, fltrd 0.7u GF ug/L (82661)
06799750 TRIBUTARY TO SOUTH FORK DRY CREEK, NR SCHUYLER (LAT 41 32 21N LONG 097 08 14W)													
MAY													
2004													
08...	<.06	<.008	<.02	<.005	<.004	<.05	<.02	<.020	<.02	<.07	<.02	<.01	.112
10...	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.050	<.02	<.07	<.02	.09	.044
10...	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.030	<.02	<.07	<.02	.02	.011
10...	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.025	<.02	<.07	<.02	.09	.052
10...	<.06	<.008	<.01	<.005	<.050	<.05	<.02	<.050	<.02	<.07	<.02	.11	.038
12...	<.06	<.008	<.01	E.002	<.004	<.05	<.02	<.015	<.02	<.07	<.02	.01	E.007n
13...	--u	<.008	<.01	<.005	<.004	<.05	<.02	.032	<.02	<.07	<.02	.03	.024
13...	--u	<.008	<.01	<.005	<.004	<.05	<.02	.021	<.02	<.07	<.02	.02	.010
13...	--u	<.008	<.01	<.005	<.004	<.05	<.02	--u	<.02	<.07	<.02	.06	.058
22...	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.025	<.02	<.07	<.02	.02	.031
22...	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.045	<.02	<.07	<.02	.03	.042
22...	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.035	<.05	<.07	<.02	.03	.017
22...	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.050	<.02	<.07	<.02	.03	.037
JUN													
02...	--u	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	.012
16...	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	E.006n
29...	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009
JUL													
07...	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.015	<.02	<.07	<.02	<.01	E.004t
07...	<.05	<.008	<.01	<.005	<.004	<.05	<.02	.024	<.02	<.07	<.02	<.01	E.004t
07...	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	E.004t
22...	<.05	<.008	<.04	<.005	<.004	<.05	<.02	<.008	<.02	<.07	<.02	<.01	.017
AUG													
25...	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009
31...	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009
SEP													
23...	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
OCT 2003													
28...	--u	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	E.006n
APR 2004													
06...	<.06	<.008	<.01	<.005	<.004	--	--	<.005	<.02	<.07	<.02	<.01	.032
13...	<.06	<.008	<.01	<.007	<.004	--	--	.071	<.02	<.07	<.02	.01	.011
20...	<.06	<.008	<.01	<.005	<.004	<.05	<.02	.005	<.02	<.07	<.02	<.01	.012
MAY													
04...	<.06	<.008	Mn	E.005	<.004	<.05	<.02	.009	<.02	<.07	<.02	<.01	.021
11...	<.06	<.008	.01	.013	<.004	--	--	.010	<.02	<.07	<.02	<.01	.014
18...	--u	<.008	<.01	.006	<.004	<.05	<.02	E.004n	<.02	<.07	<.02	<.01	.031
25...	<.06	<.008	<.01	<.005	<.004	<.05	<.02	.012	<.02	<.07	<.02	<.01	.025
JUN													
01...	<.06	<.008	<.01c	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	.014
15...	<.06	<.008	<.01	<.005	<.004	<.05	<.02	.005	<.02	<.07	<.02	<.01	E.008n
29...	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	E.004t
JUL													
06...	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	E.003t
13...	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009
20...	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	E.005t
27...	--u	--u	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009
AUG													
03...	--u	--u	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	E.009
10...	--r	<.008	<.01	<.005	<.004	--	--	<.005	<.02	<.07	<.02	<.01	<.009
17...	--	--	--	--	--	<.05	<.02	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNI—AGRICULTURAL CHEMICAL TRANSPORT STUDY
SURFACE WATER/RAINFALL—Continued

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Dichlorvos, water fltrd, ug/L (38775)
06799750 TRIBUTARY TO SOUTH FORK DRY CREEK, NR SCHUYLER (LAT 41 32 21N LONG 097 08 14W)	
MAY 2004	
08...	<.01
10...	<.01
10...	<.01
10...	<.01
10...	<.01
12...	<.01
13...	<.01
13...	<.01
13...	<.01
22...	<.01
22...	<.01
22...	<.01
22...	<.01
JUN	
02...	<.01
16...	<.01
29...	<.01
JUL	
07...	<.01
07...	<.01
07...	<.01
22...	<.01
AUG	
25...	<.01
31...	<.01
SEP	
23...	<.01
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)	
OCT 2003	
28...	<.01
APR 2004	
06...	<.01
13...	<.01
20...	<.01
MAY	
04...	<.01
11...	<.01
18...	<.01
25...	<.01
JUN	
01...	<.01
15...	<.01
29...	<.01
JUL	
06...	<.01
13...	<.01
20...	<.01
27...	<.01
AUG	
03...	<.01
10...	<.01
17...	--

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Begin time	End date	End time	UV absorbance, 254 nm, wat flt units /cm (50624)	SUVA, 254 nm, abs units/ mgC/L /meter (63162)	1-Naphthol, water, fltrd 0.7u GF ug/L (49295)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA ug/L (62850)	2Chloro-2,6'-' diethyl acetanilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl-6-methylaniline water, fltrd, ug/L (61620)	3,4-Dichloroaniline water fltrd, ug/L (61625)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
AUG 2004													
24...	1000	20040831	1000	.005	.5	<.09	<.006	<.02	<.005	<.006	<.004	<.004	<.006
31...	1000	20040907	1000	--	--	<.09	<.006	<.02	<.005	<.006	<.004	<.004	<.006
SEP													
14...	1000	20040921	1000	.012	.9	<.09	<.006	<.02	<.005	E.009	<.004	<.004	<.006
21...	1000	20040928	1000	.014	.9	<.09	<.006	<.02	<.005	<.006	<.004	<.004	<.006

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Acetochlor ESA, water, fltrd 0.7u GF ug/L (61029)	Acetochlor OA, water, fltrd 0.7u GF ug/L (61030)	Acetochlor SAA, water, fltrd, ug/L (62847)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor ESA SA, water, fltrd, ug/L (62849)	Alachlor ESA, water, fltrd 0.7u GF ug/L (50009)	Alachlor OA, water, fltrd 0.7u GF ug/L (61031)	Alachlor SAA, water, fltrd, ug/L (62848)	Alachlor, water, fltrd, ug/L (46342)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl oxon, water, fltrd, ug/L (61635)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
AUG 2004													
24...	<.02	<.02	<.02	E.004n	<.02	<.02	<.02	<.02	<.005	E.003t	<.07	<.050	<.010
31...	<.02	<.02	<.02	.010	<.02	<.02	<.02	<.02	.005	.012	<.07	<.050	<.010
SEP													
14...	<.02	<.02	<.02	.039	<.02	<.02	<.02	<.02	.015	.032	<.07	<.050	<.010
21...	<.02	<.02	<.02	<.006	<.02	<.02	<.02	<.02	<.005	<.007	<.07	<.050	<.010

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cyfluthrin, water, fltrd, ug/L (61585)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon oxon, water, fltrd, ug/L (61638)	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethenamid ESA, water, fltrd, ug/L (61951)
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
AUG 2004													
24...	<.041	<.06	.038	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02
31...	<.041	<.06	.006	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02
SEP													
14...	<.041	<.06	.010	<.006	<.008	<.009	.007	<.012	<.01	<.005	<.08	<.009	<.02
21...	<.041	<.06	E.004n	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethenamid water, fltrd, ug/L (61588)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulfinyl fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Flufenacet ESA, water, fltrd, ug/L (61952)
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
AUG 2004													
24...	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03	<.029	<.013	<.024	<.016	<.02
31...	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03	<.029	<.013	<.024	<.016	<.02
SEP													
14...	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03	<.029	<.013	<.024	<.016	<.02
21...	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03	<.029	<.013	<.024	<.016	<.02

CENTRAL NEBRASKA BASINS STUDY UNI—AGRICULTURAL CHEMICAL TRANSPORT STUDY
SURFACE WATER/RAINFALL—Continued

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Flufenacet OA, water, fltrd, ug/L (62483)	Flufenacet, water, fltrd, ug/L (62481)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
AUG 2004													
24...	<.02	<.02	<.003	<.003	<.013	<.387	<.003	<.030	<.027	<.005	<.006	<.03	<.015
31...	<.02	<.02	<.003	<.003	<.013	<.387	<.003	<.030	<.027	<.005	<.006	<.03	<.015
SEP													
14...	<.02	<.02	<.003	<.003	<.013	<.387	<.003	E.023n	<.027	<.005	<.006	<.03	<.015
21...	<.02	<.02	<.003	<.003	<.013	<.387	<.003	<.030	<.027	<.005	<.006	<.03	<.015

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Metolachlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metolachlor OA, water, fltrd 0.7u GF ug/L (61044)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Myclobutanil water, fltrd, ug/L (61599)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)													
AUG 2004													
24...	<.02	<.02	<.013	<.006	<.008	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004
31...	<.02	<.02	E.003t	<.006	<.008	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004
SEP													
14...	<.02	<.02	E.011n	<.006	<.008	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004
21...	<.02	<.02	<.013	<.006	<.008	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004

MISCELLANEOUS STATION ANALYSES—CONTINUED

Date	Propachlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propachlor OA, water, fltrd 0.7u GF ug/L (62767)	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Dichlorvos, water fltrd, ug/L (38775)
413302097090595 RAIN SAMPLER ACTRS1-1 NEAR SCHUYLER, NE (LAT 41 33 02N LONG 097 09 05W)									
AUG 2004									
24...	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009	<.01
31...	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009	<.01
SEP									
14...	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009	<.01
21...	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009	<.01

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

Value qualifier codes used in this table:
@ -- Holding time exceeded
c -- See laboratory comment
d -- Diluted sample: method hi range exceeded
n -- Below the LRL and above the LT-MDL
o -- Result determined by alternate method
t -- Below the long-term MDL

Null value qualifier codes used in this table:
r -- Sample ruined in preparation
u -- Unable to determine-matrix interference

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER

(Station Name: indicates location by township, range, and section. Geologic unit: 111ALVM, Holocene alluvium; 112SDGV, Pleistocene sand and gravel deposits; 112TILL, Pleistocene Till.)

COUNTIES.--Colfax, Dodge, and Stanton

MULTIPLE STATION ANALYSES

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
	COLFAX COUNTY					
414343096595801	20N 4E 5CCDC1 CNBRLUSCR1 CO-13	41 43 43 N	096 59 58 W	111ALVM	03-25-04	1130
	20N 4E 5CCDC1 CNBRLUSCR1 CO-13	41 43 43 N	096 59 58 W	111ALVM	05-26-04	1100
	20N 4E 5CCDC1 CNBRLUSCR1 CO-13	41 43 43 N	096 59 58 W	111ALVM	09-09-04	1000
	DODGE COUNTY					
413334096325301	18N 8W 5DBAB1 NAWQA WELL ACTFS1-1A	41 33 34 N	096 32 53 W	112SDGV	03-30-04	1400
	18N 8W 5DBAB1 NAWQA WELL ACTFS1-1A	41 33 34 N	096 32 53 W	112SDGV	05-19-04	1000
	18N 8W 5DBAB1 NAWQA WELL ACTFS1-1A	41 33 34 N	096 32 53 W	112SDGV	08-16-04	1630
413334096325302	18N 8W 5DBAB2 NAWQA WELL ACTFS1-1B	41 33 34 N	096 32 53 W	112SDGV	03-30-04	1230
	18N 8W 5DBAB2 NAWQA WELL ACTFS1-1B	41 33 34 N	096 32 53 W	112SDGV	05-17-04	1530
	18N 8W 5DBAB2 NAWQA WELL ACTFS1-1B	41 33 34 N	096 32 53 W	112SDGV	05-19-04	1030
	18N 8W 5DBAB2 NAWQA WELL ACTFS1-1B	41 33 34 N	096 32 53 W	112SDGV	08-16-04	1500
413334096325303	18N 8W 5DBAB3 NAWQA WELL ACTFS1-1C	41 33 34 N	096 32 53 W	112SDGV	03-30-04	1000
	18N 8W 5DBAB3 NAWQA WELL ACTFS1-1C	41 33 34 N	096 32 53 W	112SDGV	05-17-04	1330
	18N 8W 5DBAB3 NAWQA WELL ACTFS1-1C	41 33 34 N	096 32 53 W	112SDGV	08-16-04	1330
413340096402701	18N 7E 6BCCC1 CNBRLUSCR1 DO-24	41 33 39 N	096 40 27 W	111ALVM	03-23-04	1400
	18N 7E 6BCCC1 CNBRLUSCR1 DO-24	41 33 39 N	096 40 27 W	111ALVM	05-25-04	1000
	18N 7E 6BCCC1 CNBRLUSCR1 DO-24	41 33 39 N	096 40 27 W	111ALVM	09-08-04	1500
413341096325501	18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A	41 33 41 N	096 32 54 W	--	03-29-04	1530
	18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A	41 33 41 N	096 32 54 W	--	05-18-04	1200
	18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A	41 33 41 N	096 32 54 W	--	08-17-04	1200
413341096325502	18N 8W 5ACDC2 NAWQA WELL ACTFS1-2B	41 33 41 N	096 32 54 W	--	03-29-04	1400
	18N 8W 5ACDC2 NAWQA WELL ACTFS1-2B	41 33 41 N	096 32 54 W	--	05-18-04	1530
	18N 8W 5ACDC2 NAWQA WELL ACTFS1-2B	41 33 41 N	096 32 54 W	--	08-17-04	1030
413341096325503	18N 8W 5ACDC3 NAWQA WELL ACTFS1-2C	41 33 41 N	096 32 54 W	--	03-29-04	1130
	18N 8W 5ACDC3 NAWQA WELL ACTFS1-2C	41 33 41 N	096 32 54 W	--	05-19-04	1230
	18N 8W 5ACDC3 NAWQA WELL ACTFS1-2C	41 33 41 N	096 32 54 W	--	08-17-04	1000
413348096324801	18N 8W 5ACAC1 NAWQA WELL ACTFS1-3A	41 33 47 N	096 32 48 W	--	03-31-04	1530
	18N 8W 5ACAC1 NAWQA WELL ACTFS1-3A	41 33 47 N	096 32 48 W	--	05-20-04	1230
	18N 8W 5ACAC1 NAWQA WELL ACTFS1-3A	41 33 47 N	096 32 48 W	--	08-18-04	1100
413348096324802	18N 8W 5ACAC2 NAWQA WELL ACTFS1-3B	41 33 47 N	096 32 48 W	--	03-31-04	1330
	18N 8W 5ACAC2 NAWQA WELL ACTFS1-3B	41 33 47 N	096 32 48 W	--	05-20-04	1400
	18N 8W 5ACAC2 NAWQA WELL ACTFS1-3B	41 33 47 N	096 32 48 W	--	08-18-04	1330

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Sampling depth, feet (00003)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	SUVA, 254 nm, abs units/ mgC/L /meter (63162)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)
COLFAX COUNTY												
414343096595801	25	11.95	1,450	.50	11	14.0	8.4	--	--	735	.7	7
	25	8.44	1,450	1.0	25	23.0	3.2	.137	2.6	718	3.6	35
	25	12.24	1,450	--	--	20.0	3.3	.162	2.9	726	8.0	80
DODGE COUNTY												
413334096325301	79	70.39	1,203.65	1.0	14	75.0	.4	--	--	737	.4	4
	79	--	1,203.65	1.2	23	74.0	.2	.020	1.6	725	.7	7
	79	71.09	1,203.65	1.0	87	75.0	.1	.036	1.0	733	1.4	13
413334096325302	91	70.56	1,203.68	.75	38	85.0	.6	--	--	737	.2	2
	91	--	1,203.68	--	220	--	.2	--	--	--	.7	--
	91	--	1,203.68	--	--	--	--	.029	.1	--	--	--
	91	71.01	1,203.68	1.0	96	85.0	.1	.022	.3	733	.1	.0
413334096325303	103.5	70.73	1,203.69	1.0	35	100	1.8	--	--	737	.1	.0
	103.5	--	1,203.69	--	47	100	.3	.028	3.4	730	.8	8
	103.5	71.31	1,203.69	1.0	70	97.0	.4	.024	1.5	733	.1	.0
413340096402701	24.5	18.50	1,290	1.0	55	21.5	.1	--	--	728	3.7	37
	24.5	18.46	1,290	1.0	46	20.0	.3	.056	1.7	727	3.2	31
	24.5	18.84	1,290	1.0	63	21.0	.2	.047	1.4	734	3.6	35
413341096325501	81.1	69.51	1,203.21	1.0	19	75.0	.8	--	--	733	.2	2
	81.1	--	1,203.21	.50	61	77.0	.5	--x	--x	730	.6	6
	81.1	70.21	1,203.21	1.0	20	74.0	.6	--x	--x	733	.1	1
413341096325502	94	69.74	1,203.55	.75	25	90.0	.6	--	--	733	.1	1
	94	--	1,203.55	1.0	30	100	.7	.022	1.0	730	.2	2
	94	70.51	1,203.55	1.0	18	87.0	.6	.021	2.6	733	.1	1
413341096325503	104.5	69.93	1,203.65	.50	44	100	.8	--	--	733	.4	4
	104.5	--	1,203.65	1.0	38	100	--	.010	1.1	725	.2	2
	104.5	70.65	1,203.65	1.0	55	99.0	.2	.010	1.3	733	.2	2
413348096324801	60	51.05	1,184.05	1.0	39	54.0	1.2	--	--	737	1.0	10
	60	--	1,184.05	.75	25	55.0	.1	.064	1.8	726	.9	9
	60	51.83	1,184.05	1.0	63	58.0	.2	.071	2.1	726	1.4	14
413348096324802	71.1	52.06	1,185.05	.50	39	68.0	.3	--	--	737	.3	3
	71.1	--	1,185.05	1.0	25	--	.1	.012	.0c	726	M	.0
	71.1	52.83	1,185.05	1.0	62	66.0	.1	.007	.7	726	.2	2

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)
COLFAX COUNTY												
414343096595801	6.8	1,610	18.0	12.8	990	21	275	74.3	8.94	.1	9.62	2
	6.7	1,640	17.0	11.3	960	--	266c	70.7c	8.84c	.1	10.5c	2
	6.6	1,620	21.0	12.7	970	.0	272	70.6	9.39	.1	9.51	2
DODGE COUNTY												
413334096325301	6.9	490	7.5	12.4	200	48	58.8	13.8	6.97	.8	26.9	22
	6.3	510	17.5	12.8	210	46	60.3	14.3	7.28	.9	31.2	24
	6.6	507	26.0	12.8	190	29	54.5	13.1	6.64	.9	27.3	23
413334096325302	7.0	395	4.4	12.4	170	21	49.1	11.2	7.92	.5	15.7	16
	6.7	391	17.0	13.7	170	31	47.6	11.4	8.47	.5	15.4	16
	--	--	--	--	--	--	--	--	--	--	--	--
	6.7	361	26.0	12.9	150	34	43.8	10.4	7.39	.5	13.1	15
413334096325303	7.1	356	4.0	12.4	160	24	44.3	10.8	5.76	.4	12.6	14
	6.8	358	17.0	13.0	150	33	43.4	10.8	5.93	.4	11.8	14
	6.5	355	26.0	13.2	150	40	43.1	10.9	6.28	.4	11.8	14
413340096402701	7.0	1,620	12.0	13.3	820	360	232	59.4	6.47	.8	50.1	12
	7.0	1,450	11.0	11.9	760	300	215	54.6	6.53	.8	51.3	13
	6.7	1,340	20.0	12.6	670	250	189	47.6	6.00	.7	42.2	12
413341096325501	7.1	453	15.4	12.8	200	--	55.8	14.0	6.47	.6	18.5	16
	7.0	452	17.0	13.9	190	--	53.5	13.8	6.64	.5	16.2	15
	6.9	439	--	12.7	190	7	54.9	13.8	6.77	.5	14.6	14
413341096325502	7.1	389	16.0	12.8	170	36	48.9	12.0	6.47	.4	11.5	12
	6.9	380	20.0	13.0	170	41	48.6	12.1	6.55	.4	10.6	11
	6.9	370	--	12.9	170	47	47.2	11.7	6.47	.4	11.3	12
413341096325503	7.0	350	16.0	13.8	150	37	42.8	10.7	5.76	.4	12.3	14
	6.7	347	17.0	12.9	150	42	43.3	10.9	5.85	.4	11.5	13
	6.4	346	--	13.0	150	47	43.0	10.7	5.84	.4	12.0	14
413348096324801	7.0	590	15.4	12.6	270	97	73.2	21.9	6.22	.5	18.2	12
	6.8	599	22.0	13.3	280	100	74.7	22.0	6.38	.5	17.7	12
	6.6	606	22.0	12.8	270	80	69.8	22.6	5.84	.4	16.8	12
413348096324802	7.1	393	13.4	12.6	180	6	51.1	11.9	6.50	.5	16.7	16
	6.8	407	23.0	12.6	180	--	53.1	12.3	6.73	.5	16.8	16
	6.8	429	22.0	13.1	180	--	53.1	12.4	6.30	.5	16.8	16

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Sulfide water, fltrd, field, mg/L (99118)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)
COLFAX COUNTY												
414343096595801	971	1,180	.0	.45d	8.03	.2	37.7	10.3	--	1,030	1.18	868
	971	1,180	.0	.46d	7.20	.2	39.8c	7.8	--	1,010	.86	629
	970	1,180	.0	.62d	5.80d	.3	41.0	6.1d	--	1,020	1.01	745
DODGE COUNTY												
413334096325301	156	190	.0	.05	7.45	<.2	25.3	34.8	.31	328	.44	320
	164	200	.0	.06	6.29	<.2	25.8	32.0	1.07	333	.46	335
	161	196	.0	.06	6.00	<.2	25.0	35.3	.330	314	.43	315
413334096325302	148	180	.0	.05	5.79	<.2	16.4	40.0	.460	244	.33	240
	135	164	.0	.06	6.09	<.2	17.0	38.2	.620@	236	.32	237
	--	--	--	--	--	--	--	--	--	--	--	--
	119	144	.0	.05	5.13	<.2	16.1	43.2	<.090	212	.28	209
413334096325303	131	159	.0	.06	4.98	.2	20.5	42.0	.470	221	.31	229
	120	146	.0	.09	4.71	.2	19.9	42.4	.180	212	.29	214
	113	137	.0	.05	4.52	.2	20.4	46.5	.250	212	.30	220
413340096402701	463	564	.0	.51d	82.8	.4	32.0	159	--	1,070	1.14	840
	466	569	.0	.45d	66.2	.4	32.7	143	--	976	1.21	887
	417	508	.0	.39	54.1	.4	30.7	134	--	844	1.09	800
413341096325501	202	246	.0	.05	3.72	.2	19.7	27.3	.510	274	.37	275
	204	248	.0	.09i	3.10	.2	20.2	25.6	.620	270	.37	272
	187	227	.0	.18c	3.21	.2	20.0	30.1	<.090	263	.35	259
413341096325502	136	165	.0	.04	4.14	.2	19.1	46.7	.600	238	.34	249
	131	159	.0	.05	4.72	.2	19.5	48.4	.970@	234	.33	242
	119	145	.0	.05	5.00	.2	19.7	54.8	<.090	230	.32	232
413341096325503	114	139	.0	.04	5.33	.2	24.7	52.9	.770	224	.31	228
	111	135	.0	.05	4.92	.2	25.3	52.3	<.090@	221	.31	227
	104	127	.0	.05	5.14	.2	25.5	56.4	.200	222	.30	222
413348096324801	176	214	.0	.08	7.35	.2	36.2	37.2	.430	307	.53	389
	176	214	.0	.09	7.65	.2	37.5	35.0	1.55	401	.56	412
	187	228	.0	.06	6.74	.2	37.9	39.2	--	399	.52	381
413348096324802	171	208	.0	.04	3.52	.2	26.8	25.9	.530	246	.34	249
	186	226	.0	.02	3.53	.2	28.0	21.9	.690	255	.36	263
	193	235	.0	.02	2.81	.2	27.2	29.3	--	265	.33	239

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Total nitro-gen, wat flt by anal ysis, mg/L (62854)	Hydro-gen sulfide water unfltrd mg/L (71875)	Iron (II), water, fltrd, field, mg/L (99114)
COLFAX COUNTY												
414343096595801	.85	.66	--	--	<.06	--	<.008	2.88	.94oc	.91	U	--
	.75	.58	--	--	<.06	--	<.008	3.93	1.28doc	.85	--	--
	.92	.71	--	--	<.06	--	<.008	3.02	.98oc	.98	U	--
DODGE COUNTY												
413334096325301	--	<.04	59.4	13.4	13.4d	.069	.021	.711	.232d	12.9d	U	.000
	--	<.04	57.3	12.9	13.0d	.036	.011	.760	.248d	13.0d	--	.030
	--	<.04	49.0	11.1	11.1d	.046	.014	.708	.231d	11.1d	U	.000
413334096325302	--	<.04	9.36	2.11	2.15	.128	.039	.046	.015	2.19	U	.010
	--	<.04	10.6	2.39	2.43	.115	.035	.049	.016	2.59	U	.010@
	--	--	--	--	--	--	--	--	--	--	--	--
	--	<.04	1.30	.29	.30	.036	.011	.046	.015	.34	U	.020
413334096325303	--	<.04	--	--	<.06	--	<.008	.383	.125	.04	U	.630
	--	<.04	--	--	<.06	--	<.008	.754	.246d	<.03	--	.610
	--	<.04	--	--	<.06	--	<.008	.512	.167	.04	U	.520
413340096402701	--	<.04	--	--	38.9d	--	<.008	.730	.238d	38.5d	U	--
	--	E.02n	--	--	28.4d	--	<.008	.763	.249d	28.4d	--	--
	--	<.04	--	--	20.2d	--	<.008	.739	.241d	20.7d	U	--
413341096325501	.31	.24	--	--	<.06	--	<.008	2.63	.858d	.30	U	3.62
	.36	.28	--	--	<.06	--	<.008	2.66	.867d	.30	U	3.92
	.31	.24	--	--	<.06	.046	.014	--	<.006	.32	--	3.84
413341096325502	--	<.04	6.83	1.54	1.58	.125	.038	.564	.184	1.51	U	.000
	--	<.04	3.88	.88	.91	.099	.030	.549	.179	.97	U	.010@
	--	<.04	1.16	.26	.28	.049	.015	.558	.182	.31	U	.020
413341096325503	--	<.04	--	--	.09	--	<.008	.776	.253d	<.03	U	.000
	--	<.04	--	--	<.06	--	<.008	.803	.262d	<.03	U	.030@
	--	<.04	--	--	<.06	--	<.008	.803	.262d	<.03	U	.000
413348096324801	--	<.04	--	--	<.06	--	<.008	1.25	.408d	20.2d	U	.010
	--	<.04	--	--	21.1d	--	<.008	1.37	.448d	19.7d	--	.030
	--	<.04	--	--	19.4d	--	<.008	1.46	.476d	20.5d	--	.010
413348096324802	--	<.04	--	--	<.06	--	<.008	.895	.292d	<.06d	U	.010
	--	<.04	--	--	<.06	--	<.008	.883	.288d	<.03	--	.010
	--	<.04	--	--	<.06	--	<.008	.908	.296d	<.03	U	.010

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA ug/L (62850)	2Chloro -2,6'-' diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6-methyl-aniline water, fltrd, ug/L (61620)	3,4-Di-chloro-aniline water fltrd, ug/L (61625)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto-chlor ESA, water, fltrd 0.7u GF ug/L (61029)	Aceto-chlor OA, water, fltrd 0.7u GF ug/L (61030)
COLFAX COUNTY												
414343096595801	1,780	16,300d	--	--	--	--	--	--	--	--	--	--
	2,000c	142,00dc	<.09	<.006	<.02	<.005	<.006	<.004	<.004	<.006	<.02	<.02
	1,270	22,000d	--	--	--	--	--	--	--	--	--	--
DODGE COUNTY												
413334096325301	<6	65.3	--	--	--	--	--	--	--	--	--	--
	<6	67.6	<.09	<.006	<.02	<.005	E.031	<.004	<.004	<.006	<.02	<.02
	E3n	70.5	--	--	--	--	--	--	--	--	--	--
413334096325302	E5n	36.1	--	--	--	--	--	--	--	--	--	--
	<6	29.0	<.09	<.006	<.02	<.005	E.009	<.004	<.004	<.006	<.02	<.02
	--	--	--	--	--	--	--	--	--	--	--	--
	8	32.2	--	--	--	--	--	--	--	--	--	--
413334096325303	548	153	--	--	--	--	--	--	--	--	--	--
	579	111	<.09	<.006	<.02	<.005	E.003t	<.004	<.004	<.006	<.02	<.02
	515	147	--	--	--	--	--	--	--	--	--	--
413340096402701	E3n	<.8	--	--	--	--	--	--	--	--	--	--
	E4n	.9	<.09	<.006	<.02	<.005	<.006	<.004	<.004	<.006	<.02	<.02
	<6	E.7n	--	--	--	--	--	--	--	--	--	--
413341096325501	3,740	1,050	--	--	--	--	--	--	--	--	--	--
	4,400	1,020	<.09	<.006	<.02	<.005	E.014	<.004	<.004	<.006	<.02	<.02
	5,540	984	--	--	--	--	--	--	--	--	--	--
413341096325502	<6	33.0	--	--	--	--	--	--	--	--	--	--
	E4n	31.2	<.09	<.006	<.02	<.005	E.005n	<.004	<.004	<.006	<.02	<.02
	E4n	34.1	--	--	--	--	--	--	--	--	--	--
413341096325503	10	47.9	--	--	--	--	--	--	--	--	--	--
	9	43.0	<.09	<.006	<.02	<.005	<.006	<.004	<.004	<.006	<.02	<.02
	E5n	54.7	--	--	--	--	--	--	--	--	--	--
413348096324801	E3n	15.2	--	--	--	--	--	--	--	--	--	--
	E5n	12.4	<.09	<.006	<.02	<.005	E.006n	<.004	<.004	<.006	<.02	<.02
	<6	7.5	--	--	--	--	--	--	--	--	--	--
413348096324802	<6	5.6	--	--	--	--	--	--	--	--	--	--
	<6	3.2	<.09	<.006	<.02	<.005	<.006	<.004	<.004	<.006	<.02	<.02
	E6n	4.7	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Acetochlor SAA, water, fltrd, ug/L (62847)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor ESA SA, water, fltrd, ug/L (62849)	Alachlor ESA, water, fltrd 0.7u GF ug/L (50009)	Alachlor OA, water, fltrd 0.7u GF ug/L (61031)	Alachlor SAA, water, fltrd, ug/L (62848)	Alachlor, water, fltrd, ug/L (46342)	Atrazine, wat flt immunoassay unadj. ug/L (99775)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl oxon, water, fltrd, ug/L (61635)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)
COLFAX COUNTY												
414343096595801	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.006	<.02	<.02	<.02	<.02	<.005	--	<.007	<.03c	<.050	<.010
	--	--	--	--	--	--	--	<.10	--	--	--	--
DODGE COUNTY												
413334096325301	--	--	--	--	--	--	--	.11	--	--	--	--
	<.02	<.006	<.02	.20	<.02	<.02	<.005	--	.037	<.03c	<.050	<.010
	--	--	--	--	--	--	--	.10	--	--	--	--
413334096325302	--	--	--	--	--	--	--	<.10	--	--	--	--
	<.02	<.006	<.02	.26	.03	<.02	<.005	--	.030	--u	<.050	<.010
	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	<.10	--	--	--	--
413334096325303	--	--	--	--	--	--	--	<.10	--	--	--	--
	<.02	E.003n	<.02	.10	<.02	<.02	<.005	--	.009	--u	<.050	<.010
	--	--	--	--	--	--	--	<.10	--	--	--	--
413340096402701	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.006	<.02	.11	<.02	<.02	<.005	--	<.007	<.03c	<.050	<.010
	--	--	--	--	--	--	--	<.10	--	--	--	--
413341096325501	--	--	--	--	--	--	--	.07	--	--	--	--
	<.02	<.006	<.02	.25	<.02	<.02	<.005	--	.009	--u	<.050	<.010
	--	--	--	--	--	--	--	<.10	--	--	--	--
413341096325502	--	--	--	--	--	--	--	<.10	--	--	--	--
	<.02	<.006	<.02	.07	<.02	<.02	<.005	--	.008	<.03c	<.050	<.010
	--	--	--	--	--	--	--	<.10	--	--	--	--
413341096325503	--	--	--	--	--	--	--	<.10	--	--	--	--
	<.02	<.006	<.02	<.02	<.02	<.02	<.005	--	<.007	<.03c	<.050	<.010
	--	--	--	--	--	--	--	<.10	--	--	--	--
413348096324801	--	--	--	--	--	--	--	<.10	--	--	--	--
	<.02	<.006	<.02	.05	<.02	<.02	<.005	--	<.007	<.02	<.050	<.010
	--	--	--	--	--	--	--	<.10	--	--	--	--
413348096324802	--	--	--	--	--	--	--	<.10	--	--	--	--
	<.02	<.006	<.02	<.02	<.02	<.02	<.005	--	<.007	<.02	<.050	<.010
	--	--	--	--	--	--	--	<.10	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cyfluthrin, water, fltrd, ug/L (61585)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon oxon, water, fltrd, ug/L (61638)	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)
COLFAX COUNTY												
414343096595801	--	--	--	--	--	--	--	--	--	--	--	--
	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009
	--	--	--	--	--	--	--	--	--	--	--	--
DODGE COUNTY												
413334096325301	--	--	--	--	--	--	--	--	--	--	--	--
	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009
	--	--	--	--	--	--	--	--	--	--	--	--
413334096325302	--	--	--	--	--	--	--	--	--	--	--	--
	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	--u	<.009
	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
413334096325303	--	--	--	--	--	--	--	--	--	--	--	--
	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	--u	<.009
	--	--	--	--	--	--	--	--	--	--	--	--
413340096402701	--	--	--	--	--	--	--	--	--	--	--	--
	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009
	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501	--	--	--	--	--	--	--	--	--	--	--	--
	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	--u	<.009
	--	--	--	--	--	--	--	--	--	--	--	--
413341096325502	--	--	--	--	--	--	--	--	--	--	--	--
	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009
	--	--	--	--	--	--	--	--	--	--	--	--
413341096325503	--	--	--	--	--	--	--	--	--	--	--	--
	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009
	--	--	--	--	--	--	--	--	--	--	--	--
413348096324801	--	--	--	--	--	--	--	--	--	--	--	--
	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009
	--	--	--	--	--	--	--	--	--	--	--	--
413348096324802	--	--	--	--	--	--	--	--	--	--	--	--
	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009
	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Dimethenamid ESA, water, fltrd, ug/L (61951)	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethenamid water, fltrd, ug/L (61588)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulfinylfipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)
COLFAX COUNTY												
414343096595801	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.006	<.03	<.004	<.030c	--u	<.03	<.029	<.013	<.024
	--	--	--	--	--	--	--	--	--	--	--	--
DODGE COUNTY												
413334096325301	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013	<.024
	--	--	--	--	--	--	--	--	--	--	--	--
413334096325302	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.006	<.03	<.004	<.008	--u	<.03	<.029	<.013	<.024
	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
413334096325303	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.006	<.03	<.004	<.008	--u	<.03	<.029	<.013	<.024
	--	--	--	--	--	--	--	--	--	--	--	--
413340096402701	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.006	<.03	<.004	<.030c	--u	<.03	<.029	<.013	<.024
	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.006	<.03	<.004	<.008	--u	<.03	<.029	<.013	<.024
	--	--	--	--	--	--	--	--	--	--	--	--
413341096325502	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013	<.024
	--	--	--	--	--	--	--	--	--	--	--	--
413341096325503	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013	<.024
	--	--	--	--	--	--	--	--	--	--	--	--
413348096324801	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013	<.024
	--	--	--	--	--	--	--	--	--	--	--	--
413348096324802	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013	<.024
	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Fipronil, water, fltrd, ug/L (62166)	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufenacet OA, water, fltrd, ug/L (62483)	Flufenacet, water, fltrd, ug/L (62481)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Metalaxyl, water, fltrd, ug/L (61596)
COLFAX COUNTY												
414343096595801	--	--	--	--	--	--	--	--	--	--	--	--
	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005
	--	--	--	--	--	--	--	--	--	--	--	--
DODGE COUNTY												
413334096325301	--	--	--	--	--	--	--	--	--	--	--	--
	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005
	--	--	--	--	--	--	--	--	--	--	--	--
413334096325302	--	--	--	--	--	--	--	--	--	--	--	--
	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005
	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
413334096325303	--	--	--	--	--	--	--	--	--	--	--	--
	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005
	--	--	--	--	--	--	--	--	--	--	--	--
413340096402701	--	--	--	--	--	--	--	--	--	--	--	--
	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005
	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501	--	--	--	--	--	--	--	--	--	--	--	--
	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005
	--	--	--	--	--	--	--	--	--	--	--	--
413341096325502	--	--	--	--	--	--	--	--	--	--	--	--
	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005
	--	--	--	--	--	--	--	--	--	--	--	--
413341096325503	--	--	--	--	--	--	--	--	--	--	--	--
	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005
	--	--	--	--	--	--	--	--	--	--	--	--
413348096324801	--	--	--	--	--	--	--	--	--	--	--	--
	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005
	--	--	--	--	--	--	--	--	--	--	--	--
413348096324802	--	--	--	--	--	--	--	--	--	--	--	--
	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005
	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Methi-althion water, fltrd, ug/L (61598)	Methyl para-oxon, water, fltrd, ug/L (61664)	Methyl para-thion, water, fltrd 0.7u GF ug/L (82667)	Metola-chlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metola-chlor OA, water, fltrd 0.7u GF ug/L (61044)	Metola-chlor, water, fltrd 0.7u GF ELISA, ug/L (82694)	Metola-chlor, water, fltrd, ug/L (39415)	Metri-buzin, water, fltrd, ug/L (82630)	Myclo-butanil water, fltrd, ug/L (61599)	Pendi-meth-alin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)
COLFAX COUNTY												
414343096595801	--	--	--	--	--	--	--	--	--	--	--	--
	<.006	<.03	<.015	<.02	<.02	--	<.013	<.006	<.008	<.022	<.10	<.011
	--	--	--	--	--	<.10	--	--	--	--	--	--
DODGE COUNTY												
413334096325301	--	--	--	--	--	<.10	--	--	--	--	--	--
	<.006	<.03	<.015	.20	<.02	--	<.013	<.006	<.008	<.022	<.10	<.011
	--	--	--	--	--	<.10	--	--	--	--	--	--
413334096325302	--	--	--	--	--	<.10	--	--	--	--	--	--
	<.006	<.03	<.015	.16	<.02	--	E.002t	<.006	<.008	<.022	<.10	<.011
	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	<.10	--	--	--	--	--	--
413334096325303	--	--	--	--	--	<.10	--	--	--	--	--	--
	<.006	<.03	<.015	.05	<.02	--	<.013	<.006	<.008	<.022	<.10	<.011
	--	--	--	--	--	<.10	--	--	--	--	--	--
413340096402701	--	--	--	--	--	--	--	--	--	--	--	--
	<.006	<.03	<.015	.04	<.02	--	<.013	<.006	<.008	<.022	<.10	<.011
	--	--	--	--	--	<.10	--	--	--	--	--	--
413341096325501	--	--	--	--	--	.12	--	--	--	--	--	--
	<.006	<.03	<.015	.16	<.02	--	<.013	<.006	<.008	<.022	<.10	<.011
	--	--	--	--	--	<.10	--	--	--	--	--	--
413341096325502	--	--	--	--	--	<.10	--	--	--	--	--	--
	<.006	<.03	<.015	.03	<.02	--	<.013	<.006	<.008	<.022	<.10	<.011
	--	--	--	--	--	<.10	--	--	--	--	--	--
413341096325503	--	--	--	--	--	<.10	--	--	--	--	--	--
	<.006	<.03	<.015	<.02	<.02	--	<.013	<.006	<.008	<.022	<.10	<.011
	--	--	--	--	--	<.10	--	--	--	--	--	--
413348096324801	--	--	--	--	--	<.10	--	--	--	--	--	--
	<.006	<.03	<.015	.03	<.02	--	<.013	<.006	<.008	<.022	<.10	<.011
	--	--	--	--	--	<.10	--	--	--	--	--	--
413348096324802	--	--	--	--	--	<.10	--	--	--	--	--	--
	<.006	<.03	<.015	<.02	<.02	--	<.013	<.006	<.008	<.022	<.10	<.011
	--	--	--	--	--	<.10	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propachlor OA, water, fltrd 0.7u GF ug/L (62767)	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)
COLFAX COUNTY												
414343096595801	--	--	--	--	--	--	--	--	--	--	--	--
	--u	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01
	--	--	--	--	--	--	--	--	--	--	--	--
DODGE COUNTY												
413334096325301	--	--	--	--	--	--	--	--	--	--	--	--
	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01
	--	--	--	--	--	--	--	--	--	--	--	--
413334096325302	--	--	--	--	--	--	--	--	--	--	--	--
	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01
	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
413334096325303	--	--	--	--	--	--	--	--	--	--	--	--
	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01
	--	--	--	--	--	--	--	--	--	--	--	--
413340096402701	--	--	--	--	--	--	--	--	--	--	--	--
	--u	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01
	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501	--	--	--	--	--	--	--	--	--	--	--	--
	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01
	--	--	--	--	--	--	--	--	--	--	--	--
413341096325502	--	--	--	--	--	--	--	--	--	--	--	--
	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01
	--	--	--	--	--	--	--	--	--	--	--	--
413341096325503	--	--	--	--	--	--	--	--	--	--	--	--
	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01
	--	--	--	--	--	--	--	--	--	--	--	--
413348096324801	--	--	--	--	--	--	--	--	--	--	--	--
	--u	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01
	--	--	--	--	--	--	--	--	--	--	--	--
413348096324802	--	--	--	--	--	--	--	--	--	--	--	--
	--u	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01
	--	--	--	--	--	--	--	--	--	--	--	--

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Dichlorvos, water fltrd, ug/L (38775)
COLFAX COUNTY		
414343096595801	--	--
	<.009	<.01
	--	--
DODGE COUNTY		
413334096325301	--	--
	<.009	<.01
	--	--
413334096325302	--	--
	<.009	<.01
	--	--
	--	--
413334096325303	--	--
	<.009	<.01
	--	--
413340096402701	--	--
	<.009	<.01
	--	--
413341096325501	--	--
	<.009	<.01
	--	--
413341096325502	--	--
	<.009	<.01
	--	--
413341096325503	--	--
	<.009	<.01
	--	--
413348096324801	--	--
	<.009	<.01
	--	--
413348096324802	--	--
	<.009	<.01
	--	--

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
DODGE COUNTY						
413348096324803	18N 8W 5ACAC3 NAWQA WELL ACTFS1-3C	41 33 47 N	096 32 48 W	--	03-31-04	1030
	18N 8W 5ACAC3 NAWQA WELL ACTFS1-3C	41 33 47 N	096 32 48 W	--	05-20-04	1100
	18N 8W 5ACAC3 NAWQA WELL ACTFS1-3C	41 33 47 N	096 32 48 W	--	08-18-04	1230
413350096324701	18N 8W 5ABDD1 NAWQA WELL ACTFS1-4A	41 33 50 N	096 32 47 W	--	04-01-04	1530
	18N 8W 5ABDD1 NAWQA WELL ACTFS1-4A	41 33 50 N	096 32 47 W	--	05-24-04	1330
	18N 8W 5ABDD1 NAWQA WELL ACTFS1-4A	41 33 50 N	096 32 47 W	--	08-17-04	1500
413350096324702	18N 8W 5ABDD2 NAWQA WELL ACTFS1-4B	41 33 50 N	096 32 47 W	--	04-01-04	1330
	18N 8W 5ABDD2 NAWQA WELL ACTFS1-4B	41 33 50 N	096 32 47 W	--	05-24-04	1500
	18N 8W 5ABDD2 NAWQA WELL ACTFS1-4B	41 33 50 N	096 32 47 W	--	08-17-04	1600
413350096324703	18N 8W 5ABDD3 NAWQA WELL ACTFS1-4C	41 33 50 N	096 32 47 W	--	04-01-04	1200
	18N 8W 5ABDD3 NAWQA WELL ACTFS1-4C	41 33 50 N	096 32 47 W	--	05-24-04	1230
	18N 8W 5ABDD3 NAWQA WELL ACTFS1-4C	41 33 50 N	096 32 47 W	--	08-17-04	1530
STANTON COUNTY						
414527097094101	21N 2E35ABAA1 CNBRLUSCR1 S-11	41 45 27 N	097 09 41 W	112TILL	03-24-04	1300
	21N 2E35ABAA1 CNBRLUSCR1 S-11	41 45 27 N	097 09 41 W	112TILL	05-25-04	1500
	21N 2E35ABAA1 CNBRLUSCR1 S-11	41 45 27 N	097 09 41 W	112TILL	08-19-04	1100

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Sampling depth, feet (00003)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	SUVA, 254 nm, abs units/ mgC/L /meter (63162)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)
DODGE COUNTY												
413348096324803	83	51.38	1,184	1.0	42	80.0	.1	--	--	737	.2	2
	83	--	1,184	.75	39	80.0	.1	.006	.6	726	.3	4
	83	52.20	1,184	1.0	--	80.0	.2	.006	.7	--	.2	--
413350096324701	18.2	12.80	1,146	1.0	58	12.0	3.1	--	--	732	.8	8
	18.2	10.00	1,146	1.0	22	--	--	.039	3.1	726	.2	2
	18.2	14.05	1,146	1.0	40	16.0	1.2	.028	1.9	733	.6	6
413350096324702	28	12.87	1,146	1.0	50	25.0	6.9	--	--	732	.2	2
	28	--	1,146	1.0	70	--	3.5	.007	1.1	726	.0	.0
	28	13.69	1,146	1.0	50	25.0	6.3	.005	.8	733	.1	1
413350096324703	38	12.91	1,146	1.0	53	34.0	4.5	--	--	732	.1	1
	38	--	1,146	1.0	26	--	--	.009	.8	726	.0	.0
	38	13.60	1,146	1.5	79	55.0	.9	.006	.9	--	.1	--
STANTON COUNTY												
414527097094101	65	46.80	1,580	1.0	42	64.0	12	--	--	717	9.1	93
	65	46.83	1,580	--	137	63.0	2.4	.008	1.0	726	8.8	90
	65	43.13	1,580	1.0	--	67.0	7.2	.008	.8	725	8.8	88

MULTIPLE STATION ANALYSES—CONTINUED

Station number	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)
DODGE COUNTY												
413348096324803	7.3	488	12.0	12.4	220	5	63.6	14.1	7.00	.7	22.1	18
	6.9	496	20.5	13.1	230	13	66.5	14.6	7.29	.6	21.8	17
	7.0	508	22.0	12.4	220	--	64.6	14.1	6.63	.6	20.1	16
413350096324701	7.0	375	15.4	10.8	160	21	44.2	11.6	5.44	.5	13.1	15
	6.7	392	19.0	10.5	170	19	48.5	12.6	5.99	.5	13.9	14
	6.5	384	--	13.0	170	--	47.3	12.3	5.76	.5	13.7	14
413350096324702	7.1	387	13.4	12.0	180	12	50.9	12.2	6.41	.5	15.8	16
	6.9	405	20.5	11.7	180	10	51.3	12.0	6.23	.5	15.5	15
	6.7	420	--	12.0	190	47	54.3	13.1	6.13	.5	16.5	15
413350096324703	7.5	482	12.4	12.0	220	--	64.0	14.2	7.07	.6	20.9	17
	7.0	481	18.0	12.0	220	11	63.9	13.9	6.99	.6	20.6	17
	6.9	490	--	12.0	220	.0	64.0	14.5	6.79	.6	20.7	16
STANTON COUNTY												
414527097094101	7.3	692	21.0	13.6	340	--	105	19.6	6.52	.8	32.2	17
	7.0	680	17.5	13.9	340	--	104	19.9	6.81	.8	32.5	17
	6.8	688	21.0	13.3	330	--	102	19.1	6.33	.7	29.3	16

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Sulfide water, fltrd, field, mg/L (99118)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)
DODGE COUNTY												
413348096324803	212	258	.0	.04	4.53	.3	26.5	35.2	.480	301	.42	308
	213	259	.0	.03	4.59	.3	27.6	34.0	.100	305	.44	324
	225	273	.0	.03	3.90	.3	27.2	40.3	<.090	313	.41	305
413350096324701	137	167	.0	.04	4.58	.2	26.6	39.7	--	232	.36	266
	154	187	.0	.05	4.38	.2	28.4	35.2	--	242	.34	248
	191	233	.0	.02	3.73	.2	28.3	45.4	<.090	275	.34	251
413350096324702	166	202	.0	.04	3.49	.2	28.8	27.9	.220	248	.34	248
	167	204	.0	.04	3.52	.2	29.9	29.6	--	251	.34	251
	143	174	.0	.03	<.20	.2	29.6	<.2	<.090	--	--	278c
413350096324703	226	275	.0	.03	4.34	.2	26.4	33.8	.290	307	.41	301
	206	251	.0	.04	4.38	.2	27.9	36.8	--	299	.41	303
	219	266	.0	.03	3.77	.3	27.6	39.7	<.090	309	.40	291
STANTON COUNTY												
414527097094101	350	427	.0	.06	3.45	.4	33.5	26.3	--	455	.61	451
	352	430	.0	.06	3.34	.4	34.4	27.0	--	457	.58	430
	345	420	.0	.04	2.51	.4	32.9	25.3	--	442	.52	380

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Total nitrogen, wat flt by analysis, mg/L (62854)	Hydrogen sulfide water unfltrd mg/L (71875)	Iron (II), water, fltrd, field, mg/L (99114)	Iron, water, fltrd, ug/L (01046)
DODGE COUNTY												
413348096324803	<.04	--	--	<.06	--	<.008	.763	.249d	<.06d	U	.000	E3n
	<.04	--	--	<.06	--	<.008	.767	.250d	<.03	--	.010	E5n
	<.04	--	--	<.06	--	<.008	.773	.252d	.04	--	.000	<6
413350096324701	<.04	3.85	.87	.88	.046	.014	.705	.230d	.90	U	--	232
	<.04	--	--	<.06	--	E.004n	.534	.174	.09	--	--	353
	<.04	2.38	.54	.55	.053	.016	.745	.243d	.66	--	.030	40
413350096324702	<.04	--	--	.38	--	<.008	1.16	.377d	.39	U	.150	E6n
	<.04	--	--	.22	--	<.008	1.09	.354d	.23	--	--	<6
	<.04	--	--	.28	--	<.008	1.10	.359d	.30	--	.000	<6
413350096324703	<.04	--	--	<.06	--	<.008	.862	.281d	.04	U	.010	<6
	<.04	--	--	<.06	--	<.008	.828	.270d	<.03	--	--	14
	<.04	--	--	<.06	--	<.008	.877	.286d	.05	--	.030	20
STANTON COUNTY												
414527097094101	<.04	--	--	4.01	--	<.008	.129	.042	3.85	U	--	E6n
	<.04	--	--	3.86	--	<.008	.129	.042	3.88	U	--	22
	<.04	--	--	3.87	--	<.008	.123	.040	3.85	U	--	8

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Manganese, water, fltrd, ug/L (01056)	1-Naphthol, water, fltrd 0.7u GF ug/L (49295)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA ug/L (62850)	2Chloro-2,6'-'diethyl acetanilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl-6-methylaniline water, fltrd, ug/L (61620)	3,4-Dichloroaniline water fltrd, ug/L (61625)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Acetochlor ESA, water, fltrd 0.7u GF ug/L (61029)	Acetochlor OA, water, fltrd 0.7u GF ug/L (61030)	Acetochlor SAA, water, fltrd, ug/L (62847)
DODGE COUNTY												
413348096324803	7.8	--	--	--	--	--	--	--	--	--	--	--
	7.2	<.09	<.006	<.02	<.005	<.006	<.004	<.004	<.006	<.02	<.02	<.02
	5.6	--	--	--	--	--	--	--	--	--	--	--
413350096324701	22.6	--	--	--	--	--	--	--	--	--	--	--
	31.4	<.09	<.006	<.02	<.005	<.006	<.004	<.004	<.006	<.02	.02	<.02
	17.2	--	--	--	--	--	--	--	--	--	--	--
413350096324702	16.3	--	--	--	--	--	--	--	--	--	--	--
	4.2	<.09	<.006	<.02	<.005	<.006	<.004	<.004	<.006	<.02	<.02	<.02
	5.5	--	--	--	--	--	--	--	--	--	--	--
413350096324703	17.2	--	--	--	--	--	--	--	--	--	--	--
	11.2	<.09	<.006	<.02	<.005	<.006	<.004	<.004	<.006	<.02	<.02	<.02
	14.4	--	--	--	--	--	--	--	--	--	--	--
STANTON COUNTY												
414527097094101	2.9	--	--	--	--	--	--	--	--	--	--	--
	3.9	<.09	<.006	<.02	<.005	<.006	<.004	<.004	<.006	<.02	<.02	<.02
	2.7	--	--	--	--	--	--	--	--	--	--	--

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Acetochlor, water, fltrd, ug/L (49260)	Alachlor ESA SA, water, fltrd, ug/L (62849)	Alachlor ESA, water, fltrd 0.7u GF ug/L (50009)	Alachlor OA, water, fltrd 0.7u GF ug/L (61031)	Alachlor SAA, water, fltrd, ug/L (62848)	Alachlor, water, fltrd, ug/L (46342)	Atrazine, wat flt immunoassay unadj. ug/L (99775)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl oxon, water, fltrd, ug/L (61635)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Benflralin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)
DODGE COUNTY												
413348096324803	--	--	--	--	--	--	<.10	--	--	--	--	--
	<.006	<.02	<.02	<.02	<.02	<.005	--	<.007	<.02	<.050	<.010	<.041
	--	--	--	--	--	--	<.10	--	--	--	--	--
413350096324701	--	--	--	--	--	--	<.10	--	--	--	--	--
	<.006	<.02	<.02	<.02	<.02	<.005	--	<.007	<.02	<.050	<.010	<.041
	--	--	--	--	--	--	<.10	--	--	--	--	--
413350096324702	--	--	--	--	--	--	<.10	--	--	--	--	--
	<.006	<.02	<.02	<.02	<.02	<.005	--	<.007	<.02	<.050	<.010	<.041
	--	--	--	--	--	--	<.10	--	--	--	--	--
413350096324703	--	--	--	--	--	--	<.10	--	--	--	--	--
	<.006	<.02	.02	<.02	<.02	<.005	--	E.002t	<.02	<.050	<.010	<.041
	--	--	--	--	--	--	<.10	--	--	--	--	--
STANTON COUNTY												
414527097094101	--	--	--	--	--	--	--	--	--	--	--	--
	<.006	<.02	.03	<.02	<.02	<.005	--	<.007	<.03c	<.050	<.010	<.041
	--	--	--	--	--	--	<.10	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cyfluthrin, water, fltrd, ug/L (61585)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon oxon, water, fltrd, ug/L (61638)	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethenamid ESA, water, fltrd, ug/L (61951)
DODGE COUNTY												
413348096324803	--	--	--	--	--	--	--	--	--	--	--	--
	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02
	--	--	--	--	--	--	--	--	--	--	--	--
413350096324701	--	--	--	--	--	--	--	--	--	--	--	--
	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02
	--	--	--	--	--	--	--	--	--	--	--	--
413350096324702	--	--	--	--	--	--	--	--	--	--	--	--
	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02
	--	--	--	--	--	--	--	--	--	--	--	--
413350096324703	--	--	--	--	--	--	--	--	--	--	--	--
	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02
	--	--	--	--	--	--	--	--	--	--	--	--
STANTON COUNTY												
414527097094101	--	--	--	--	--	--	--	--	--	--	--	--
	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.02
	--	--	--	--	--	--	--	--	--	--	--	--

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethenamid water, fltrd, ug/L (61588)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulfinylfipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)
DODGE COUNTY												
413348096324803	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013	<.024	<.016
	--	--	--	--	--	--	--	--	--	--	--	--
413350096324701	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013	<.024	<.016
	--	--	--	--	--	--	--	--	--	--	--	--
413350096324702	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013	<.024	<.016
	--	--	--	--	--	--	--	--	--	--	--	--
413350096324703	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029	<.013	<.024	<.016
	--	--	--	--	--	--	--	--	--	--	--	--
STANTON COUNTY												
414527097094101	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.006	<.03	<.004	<.030c	--u	<.03	<.029	<.013	<.024	<.016
	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufenacet OA, water, fltrd, ug/L (62483)	Flufenacet, water, fltrd, ug/L (62481)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)
DODGE COUNTY												
413348096324803	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005	<.006
	--	--	--	--	--	--	--	--	--	--	--	--
413350096324701	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005	<.006
	--	--	--	--	--	--	--	--	--	--	--	--
413350096324702	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005	<.006
	--	--	--	--	--	--	--	--	--	--	--	--
413350096324703	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005	<.006
	--	--	--	--	--	--	--	--	--	--	--	--
STANTON COUNTY												
414527097094101	--	--	--	--	--	--	--	--	--	--	--	--
	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003	<.008	<.027	<.005	<.006
	--	--	--	--	--	--	--	--	--	--	--	--

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metolachlor OA, water, fltrd 0.7u GF ug/L (61044)	Metolachlor, water, fltrd 0.7u GF ELISA, ug/L (82694)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Myclobutanil water, fltrd, ug/L (61599)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)
DODGE COUNTY												
413348096324803	--	--	--	--	<.10	--	--	--	--	--	--	--
	<.03	<.015	<.02	<.02	--	<.013	<.006	<.008	<.022	<.10	<.011	--u
	--	--	--	--	<.10	--	--	--	--	--	--	--
413350096324701	--	--	--	--	<.10	--	--	--	--	--	--	--
	<.03	<.015	<.02	.02	--	<.013	<.006	<.008	<.022	<.10	<.011	--u
	--	--	--	--	<.10	--	--	--	--	--	--	--
413350096324702	--	--	--	--	<.10	--	--	--	--	--	--	--
	<.03	<.015	<.02	<.02	--	<.013	<.006	<.008	<.022	<.10	<.011	--u
	--	--	--	--	<.10	--	--	--	--	--	--	--
413350096324703	--	--	--	--	<.10	--	--	--	--	--	--	--
	<.03	<.015	<.02	<.02	--	E.002t	<.006	<.008	<.022	<.10	<.011	--u
	--	--	--	--	<.10	--	--	--	--	--	--	--
STANTON COUNTY												
414527097094101	--	--	--	--	--	--	--	--	--	--	--	--
	<.03	<.015	<.02	<.02	--	<.013	<.006	<.008	<.022	<.10	<.011	--u
	--	--	--	--	<.10	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propachlor OA, water, fltrd 0.7u GF ug/L (62767)	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)
DODGE COUNTY												
413348096324803	--	--	--	--	--	--	--	--	--	--	--	--
	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009
	--	--	--	--	--	--	--	--	--	--	--	--
413350096324701	--	--	--	--	--	--	--	--	--	--	--	--
	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009
	--	--	--	--	--	--	--	--	--	--	--	--
413350096324702	--	--	--	--	--	--	--	--	--	--	--	--
	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009
	--	--	--	--	--	--	--	--	--	--	--	--
413350096324703	--	--	--	--	--	--	--	--	--	--	--	--
	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009
	--	--	--	--	--	--	--	--	--	--	--	--
STANTON COUNTY												
414527097094101	--	--	--	--	--	--	--	--	--	--	--	--
	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02	<.01	<.009
	--	--	--	--	--	--	--	--	--	--	--	--

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Dichlorvos, water fltrd, ug/L (38775)
DODGE COUNTY	
413348096324803	--
	<.01
	--
413350096324701	--
	<.01
	--
413350096324702	--
	<.01
	--
413350096324703	--
	<.01
	--
STANTON COUNTY	
414527097094101	--
	<.01
	--

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified
U -- Analyzed for, not detected

Value qualifier codes used in this table:
@ -- Holding time exceeded
c -- See laboratory comment
d -- Diluted sample: method hi range exceeded
i -- Result may be affected by interference
n -- Below the LRL and above the LT-MDL
o -- Result determined by alternate method
t -- Below the long-term MDL

Null value qualifier codes used in this table:
u -- Unable to determine-matrix interference
x -- Result failed quality assurance review

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER

(Station Name: indicates location by township, range, and section. Geologic unit: 111ALVM, Holocene alluvium.)

COUNTIES.--Colfax, Dodge, and Stanton

MULTIPLE STATION ANALYSES

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
	DODGE COUNTY					
413351096324901	GWSW SITE ACTTR1-4-1B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	1035
413351096324902	GWSW SITE ACTTR1-4-1D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	03-29-04	1500
	GWSW SITE ACTTR1-4-1D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1030
	GWSW SITE ACTTR1-4-1D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	08-16-04	1100
413351096324903	GWSW SITE ACTTR1-2-1 STILLING NEAR NICKERSON, NE	41 33 50 N	096 32 47 W	111ALVM	07-21-04	1155
413351096324905	GWSW SITE ACTTR1-2-1A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	0920
413351096324906	GWSW SITE ACTTR1-2-1B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	0935
413351096324907	GWSW SITE ACTTR1-2-1C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	1000
413351096324908	GWSW SITE ACTTR1-2-2A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	0830
413351096324909	GWSW SITE ACTTR1-2-2B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	0850
413351096324910	GWSW SITE ACTTR1-2-2C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	03-30-04	1000
	GWSW SITE ACTTR1-2-2C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	0900
	GWSW SITE ACTTR1-2-2C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	08-19-04	1030
413351096324911	GWSW SITE ACTTR1-2-2D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	04-01-04	1530
	GWSW SITE ACTTR1-2-2D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	1000
	GWSW SITE ACTTR1-2-2D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	08-19-04	1130
413351096324912	GWSW SITE ACTTR1-2-3A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	1040
413351096324913	GWSW SITE ACTTR1-2-3B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	1055
413351096324914	GWSW SITE ACTTR1-2-3C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	08-18-04	1230
413351096324916	GWSW SITE ACTTR1-2-4A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	1125
413351096324917	GWSW SITE ACTTR1-2-4B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	1150
413351096324918	GWSW SITE ACTTR1-2-4C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	04-01-04	1300
	GWSW SITE ACTTR1-2-4C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	0930
	GWSW SITE ACTTR1-2-4C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	08-17-04	1430
413351096324919	GWSW SITE ACTTR1-2-4D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	03-30-04	1300
	GWSW SITE ACTTR1-2-4D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	1030

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	SUVA, 254 nm, abs units/ mgC/L /meter (63162)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Noncarb hard-ness, wat flt lab, mg/L as CaCO3 (00905)	Calcium water, fltrd, mg/L (00915)
DODGE COUNTY												
413351096324901	1.77	--	--	--	3.0	--	7.1	231	13.2	--	--	--
413351096324902	6.69	.007	.8	--	--	--	7.2	465	11.1	210	5	63.0
	6.69	.011	1.6	--	2.8	--	7.0	447	13.1	200	3	60.3
	6.69	.008	.9	--	.2	--	6.9	443	16.3	210	6	60.3
413351096324903	1.52	--	--	--	--	--	--	--	--	--	--	--
413351096324905	1.11	--	--	--	2.1	--	7.0	599	18.3	--	--	--
413351096324906	1.77	--	--	--	1.9	--	7.0	616	17.4	--	--	--
413351096324907	3.41	--	--	--	2.8	--	6.8	486	18.1	--	--	--
413351096324908	1.11	--	--	--	9.3s	--	7.3	518	18.1	--	--	--
413351096324909	1.77	--	--	--	9.1s	--	7.1	453	17.9	--	--	--
413351096324910	3.41	--u	--u	738	3.1	28	6.7	639	9.1	230	--	70.0c
	3.41	--	--	--	.7	--	6.5	551	16.7	--	--	--
	3.41	.259	4.1	--	1.8	--	6.6	646	19.1	380	--	114
413351096324911	6.69	--u	--u	--	1.6	--	6.4	550	19.0	200	--	60.0
	6.69	--u	--u	--	2.5	--	6.3	549	20.5	200	--	59.7
	6.69	--u	--u	--	3.6	--	6.6	279s	20.1	230	--	69.4dc
413351096324912	1.11	--	--	--	1.9	--	7.1	455	17.0	--	--	--
413351096324913	1.77	--	--	--	--	--	7.1	447	16.3	--	--	--
413351096324914	3.41	--u	--u	--	2.0	--	6.6	608	20.2	220	--	66.9c
413351096324916	1.11	--	--	--	1.8	--	7.2	450	15.7	--	--	--
413351096324917	1.77	--	--	--	1.8	--	7.1	444	15.8	--	--	--
413351096324918	3.41	.007	.4	--	2.1	--	7.0	505	21.1	--	--	--
	3.41	.011	.5	--	10.2	--	7.4	487	18.3	210	--	62.7
	3.41	.008	.7	--	.2	--	7.0	376	23.5	210	--	62.2
413351096324919	6.69	.012	.7	--	4.1	--	7.2	489	10.7	220	--	65.1
	6.69	.008	.6	--	2.7	--	7.1	491	18.4	220	--	64.5

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Sulfide water, fltrd, field, mg/L (99118)
DODGE COUNTY												
413351096324901	--	--	--	--	--	--	--	--	--	--	--	.480
413351096324902	13.3	6.69	.6	19.7	16	207	.04	4.09	.3	27.6	40.1	.710
	13.2	6.49	.6	18.2	16	202@c	.03	4.11	.3	27.3	39.2	.830
	13.3	6.69	.6	18.2	16	200@c	.05	3.94	.3	29.0	37.9	.130
413351096324903	--	--	--	--	--	--	--	--	--	--	--	.290
413351096324905	--	--	--	--	--	--	--	--	--	--	--	.970
413351096324906	--	--	--	--	--	--	--	--	--	--	--	.910
413351096324907	--	--	--	--	--	--	--	--	--	--	--	.710
413351096324908	--	--	--	--	--	--	--	--	--	--	--	.230
413351096324909	--	--	--	--	--	--	--	--	--	--	--	.880
413351096324910	14.3c	8.04c	.6	21.2c	16	302@c	.23	4.67	.3	39.5c	1.2	.750
	--	--	--	--	--	--	--	--	--	--	--	--
	24.2	14.8	.5	20.4	10	483@c	.04	3.76	.2	43.5	.7	<.090
413351096324911	12.3	6.49	.7	21.3	18	253	.02	4.57	.2	33.4	3.5	.460@
	13.0	7.38	.7	21.5	18	257@c	.02	4.73	.2	35.0	2.2	1.39@
	12.9dc	9.94dc	.6	20.4dc	16	295@c	<.02	3.78	.2	48.9dc	E.2nc	<.090
413351096324912	--	--	--	--	--	--	--	--	--	--	--	1.16
413351096324913	--	--	--	--	--	--	--	--	--	--	--	.400
413351096324914	12.9c	8.09c	.6	21.2c	17	282@c	.02	3.22	.2	45.4c	E.2n	<.090
413351096324916	--	--	--	--	--	--	--	--	--	--	--	.280
413351096324917	--	--	--	--	--	--	--	--	--	--	--	.600
413351096324918	--	--	--	--	--	228	--	--	--	--	--	.480
	13.9	6.73	.6	20.5	17	231@c	.05	3.51	.3	27.0	26.9	.260
	13.6	6.65	.6	20.0	17	232@c	.05	3.25	.3	27.1	27.1	<.090
413351096324919	14.4	6.55	.6	21.9	17	231	.05	3.64	.3	27.0	29.4	.570@
	14.0	6.86	.6	21.0	17	235@c	.03	3.47	.3	27.3	26.0	.930@

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, field, mg/L as N (99120)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, field, mg/L as N (99121)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)
						DODGE COUNTY						
413351096324901	--	--	--	.6	--	--	1.4	--	--	--	--	--
413351096324902	304	.41	299	--	--	E.02n	--	--	--	.95	--	<.008
	295	.40	292	--	--	<.04	--	--	--	.79	--	<.008
	292	.38	279	--	--	<.04	--	1.52	.34	.36	.069	.021
413351096324903	--	--	--	<.5	--	--	4.1	--	--	--	--	--
413351096324905	--	--	--	4.3	--	--	.4	--	--	--	--	--
413351096324906	--	--	--	4.3	--	--	.0	--	--	--	--	--
413351096324907	--	--	--	7.3	--	--	.2	--	--	--	--	--
413351096324908	--	--	--	1.7	--	--	.4	--	--	--	--	--
413351096324909	--	--	--	3.2	--	--	.3	--	--	--	--	--
413351096324910	380	.57	417	--	.96	.75	--	--	--	E.04n	--	<.008
	--	--	--	--	--	--	--	--	--	--	--	--
	541	.73	538	--	1.24	.96	--	--	--	<.06	--	<.008
413351096324911	314	.43	316	--	1.83	1.42	--	--	--	<.06	--	E.005n
	319	.45	334	--	2.09	1.62d	--	--	--	<.06	--	<.008
	--	--	399	--	6.76	5.25d	--	--	--	<.06	--	<.008
413351096324912	--	--	--	2.5	--	--	.5	--	--	--	--	--
413351096324913	--	--	--	1.9	--	--	.5	--	--	--	--	--
413351096324914	--	--	354	--	4.47	3.47d	--	--	--	<.06	--	<.008
413351096324916	--	--	--	2.0	--	--	.7	--	--	--	--	--
413351096324917	--	--	--	1.0	--	--	.9	--	--	--	--	--
413351096324918	--	--	--	--	--	<.04	--	--	--	1.13	--	<.008
	304	.41	303	--	--	<.04	--	3.06	.69	.72	.085	.026
	304	.40	296	--	--	<.04	--	3.66	.83	.85	.072	.022
413351096324919	312	.42	312	--	--	<.04	--	--	--	.94	--	E.005n
	307	.40	297	--	--	<.04	--	2.54	.57	.58	.039	.012

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Ortho-phos-phate, water, fltrd, field, mg/L (99122)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Total nitro-gen, wat flt by anal ysis, mg/L (62854)	Iron (II), water, fltrd, field, mg/L (99114)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA ug/L (62850)	2Chloro -2,6'-' diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)
					DODGE COUNTY							
413351096324901	.95	--	--	--	.060	--	--	--	--	--	--	--
413351096324902	--	.862	.281d	.97	.070	7	5.6	--	--	--	--	--
	--	.843	.275d	.86	<.000	E4n	4.7	<.09	<.006	<.02	<.005	E.006n
	--	.714	.233d	.41	.000	E4n	37.4	--	--	--	--	--
413351096324903	.35	--	--	--	.120	--	--	--	--	--	--	--
413351096324905	7.6	--	--	--	2.38	--	--	--	--	--	--	--
413351096324906	6.3	--	--	--	8.68	--	--	--	--	--	--	--
413351096324907	.41	--	--	--	9.68	--	--	--	--	--	--	--
413351096324908	1.1	--	--	--	.030	--	--	--	--	--	--	--
413351096324909	.84	--	--	--	.020	--	--	--	--	--	--	--
413351096324910	--	.101	.033c	1.17	7.20	9,640d	28,500d	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
	--	1.72	.562d	1.32	1.25	889	26,300d	--	--	--	--	--
413351096324911	--	--	<.006	1.53	13.8@	14,900d	3,480	--	--	--	--	--
	--	--	<.006	1.68	7.72@	15,300d	3,820	<.09	<.006	<.02	<.008	<.006
	--	--	<.006	4.31	24.0	31,400dc	5,630dc	--	--	--	--	--
413351096324912	.94	--	--	--	.300	--	--	--	--	--	--	--
413351096324913	.78	--	--	--	.090	--	--	--	--	--	--	--
413351096324914	--	--	<.006	1.93	26.7	29,900dc	4070c	--	--	--	--	--
413351096324916	.84	--	--	--	.040	--	--	--	--	--	--	--
413351096324917	.99	--	--	--	.050	--	--	--	--	--	--	--
413351096324918	--	.889	.290d	1.32	.010	--	--	--	--	--	--	--
	--	.849	.277d	1.25	.020	23	3.4	<.09	<.006	<.02	<.005	<.006
	--	.855	.279d	.96	.010	<6	13.6	--	--	--	--	--
413351096324919	--	.736	.240d	1.00	.020	16	2.5	--	--	--	--	--
	--	.791	.258d	.73	.020@	E5n	2.2	<.09	<.006	<.02	<.005	<.006

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto- chlor ESA, water, fltrd 0.7u GF ug/L (61029)	Aceto- chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto- chlor SAA, water, fltrd, ug/L (62847)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor ESA SA, water, fltrd, ug/L (62849)	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala- chlor SAA, water, fltrd, ug/L (62848)	Ala- chlor, water, fltrd, ug/L (46342)
						DODGE COUNTY						
413351096324901	--	--	--	--	--	--	--	--	--	--	--	--
413351096324902	-- <.004 --	-- <.004 --	-- <.006 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.005 --
413351096324903	--	--	--	--	--	--	--	--	--	--	--	--
413351096324905	--	--	--	--	--	--	--	--	--	--	--	--
413351096324906	--	--	--	--	--	--	--	--	--	--	--	--
413351096324907	--	--	--	--	--	--	--	--	--	--	--	--
413351096324908	--	--	--	--	--	--	--	--	--	--	--	--
413351096324909	--	--	--	--	--	--	--	--	--	--	--	--
413351096324910	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --
413351096324911	-- <.004 --	-- .005 --	-- <.006 --	-- .02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.005 --
413351096324912	--	--	--	--	--	--	--	--	--	--	--	--
413351096324913	--	--	--	--	--	--	--	--	--	--	--	--
413351096324914	--	--	--	--	--	--	--	--	--	--	--	--
413351096324916	--	--	--	--	--	--	--	--	--	--	--	--
413351096324917	--	--	--	--	--	--	--	--	--	--	--	--
413351096324918	-- <.004 --	-- <.004 --	-- <.006 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.005 --
413351096324919	-- <.004	-- <.004	-- <.006	-- <.02	-- <.02	-- <.02	-- <.006	-- <.02	-- .04	-- <.02	-- <.02	-- <.005

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Atrazine, wat flt immunoassay unadj. ug/L (99775)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl oxon, water, fltrd, ug/L (61635)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cyfluthrin, water, fltrd, ug/L (61585)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)
DODGE COUNTY												
413351096324901	<.10	--	--	--	--	--	--	--	--	--	--	--
413351096324902	<.10	--	--	--	--	--	--	--	--	--	--	--
	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003
	<.10	--	--	--	--	--	--	--	--	--	--	--
413351096324903	.26	--	--	--	--	--	--	--	--	--	--	--
413351096324905	.23	--	--	--	--	--	--	--	--	--	--	--
413351096324906	.12	--	--	--	--	--	--	--	--	--	--	--
413351096324907	<.10	--	--	--	--	--	--	--	--	--	--	--
413351096324908	.48	--	--	--	--	--	--	--	--	--	--	--
413351096324909	<.10	--	--	--	--	--	--	--	--	--	--	--
413351096324910	.12	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
	.38	--	--	--	--	--	--	--	--	--	--	--
413351096324911	<.10	--	--	--	--	--	--	--	--	--	--	--
	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003
	.19	--	--	--	--	--	--	--	--	--	--	--
413351096324912	.18	--	--	--	--	--	--	--	--	--	--	--
413351096324913	.13	--	--	--	--	--	--	--	--	--	--	--
413351096324914	.13	--	--	--	--	--	--	--	--	--	--	--
413351096324916	<.10	--	--	--	--	--	--	--	--	--	--	--
413351096324917	<.10	--	--	--	--	--	--	--	--	--	--	--
413351096324918	<.10	--	--	--	--	--	--	--	--	--	--	--
	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003
	<.10	--	--	--	--	--	--	--	--	--	--	--
413351096324919	<.10	--	--	--	--	--	--	--	--	--	--	--
	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon oxon, water, fltrd, ug/L (61638)	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethenamid ESA, water, fltrd, ug/L (61951)	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethenamid water, fltrd, ug/L (61588)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenamiphos sulfone water, fltrd, ug/L (61645)
DODGE COUNTY												
413351096324901	--	--	--	--	--	--	--	--	--	--	--	--
413351096324902	--	--	--	--	--	--	--	--	--	--	--	--
	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324903	--	--	--	--	--	--	--	--	--	--	--	--
413351096324905	--	--	--	--	--	--	--	--	--	--	--	--
413351096324906	--	--	--	--	--	--	--	--	--	--	--	--
413351096324907	--	--	--	--	--	--	--	--	--	--	--	--
413351096324908	--	--	--	--	--	--	--	--	--	--	--	--
413351096324909	--	--	--	--	--	--	--	--	--	--	--	--
413351096324910	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324911	--	--	--	--	--	--	--	--	--	--	--	--
	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.013	<.03	<.004	<.008
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324912	--	--	--	--	--	--	--	--	--	--	--	--
413351096324913	--	--	--	--	--	--	--	--	--	--	--	--
413351096324914	--	--	--	--	--	--	--	--	--	--	--	--
413351096324916	--	--	--	--	--	--	--	--	--	--	--	--
413351096324917	--	--	--	--	--	--	--	--	--	--	--	--
413351096324918	--	--	--	--	--	--	--	--	--	--	--	--
	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324919	--	--	--	--	--	--	--	--	--	--	--	--
	<.012	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulfinylfipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufenacet OA, water, fltrd, ug/L (62483)	Flufenacet, water, fltrd, ug/L (62481)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)
DODGE COUNTY												
413351096324901	--	--	--	--	--	--	--	--	--	--	--	--
413351096324902	--	--	--	--	--	--	--	--	--	--	--	--
	<.03	<.03	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.013
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324903	--	--	--	--	--	--	--	--	--	--	--	--
413351096324905	--	--	--	--	--	--	--	--	--	--	--	--
413351096324906	--	--	--	--	--	--	--	--	--	--	--	--
413351096324907	--	--	--	--	--	--	--	--	--	--	--	--
413351096324908	--	--	--	--	--	--	--	--	--	--	--	--
413351096324909	--	--	--	--	--	--	--	--	--	--	--	--
413351096324910	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324911	--	--	--	--	--	--	--	--	--	--	--	--
	<.03	<.03	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.013
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324912	--	--	--	--	--	--	--	--	--	--	--	--
413351096324913	--	--	--	--	--	--	--	--	--	--	--	--
413351096324914	--	--	--	--	--	--	--	--	--	--	--	--
413351096324916	--	--	--	--	--	--	--	--	--	--	--	--
413351096324917	--	--	--	--	--	--	--	--	--	--	--	--
413351096324918	--	--	--	--	--	--	--	--	--	--	--	--
	<.03	<.03	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.013
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324919	--	--	--	--	--	--	--	--	--	--	--	--
	<.03	<.03	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.013

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metolachlor OA, water, fltrd 0.7u GF ug/L (61044)	Metolachlor, water, fltrd 0.7u GF ELISA, ug/L (82694)	Metolachlor, water, fltrd, ug/L (39415)
DODGE COUNTY												
413351096324901	--	--	--	--	--	--	--	--	--	--	<.10	--
413351096324902	--	--	--	--	--	--	--	--	--	--	<.10	--
	<1	<.003	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	--	<.013
	--	--	--	--	--	--	--	--	--	--	<.10	--
413351096324903	--	--	--	--	--	--	--	--	--	--	.13	--
413351096324905	--	--	--	--	--	--	--	--	--	--	.36	--
413351096324906	--	--	--	--	--	--	--	--	--	--	.24	--
413351096324907	--	--	--	--	--	--	--	--	--	--	.06	--
413351096324908	--	--	--	--	--	--	--	--	--	--	.37	--
413351096324909	--	--	--	--	--	--	--	--	--	--	.10	--
413351096324910	--	--	--	--	--	--	--	--	--	--	<.10	--
	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	.30	--
413351096324911	--	--	--	--	--	--	--	--	--	--	<.10	--
	<1	<.003	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	--	.018
	--	--	--	--	--	--	--	--	--	--	<.10	--
413351096324912	--	--	--	--	--	--	--	--	--	--	.19	--
413351096324913	--	--	--	--	--	--	--	--	--	--	.11	--
413351096324914	--	--	--	--	--	--	--	--	--	--	<.10	--
413351096324916	--	--	--	--	--	--	--	--	--	--	.07	--
413351096324917	--	--	--	--	--	--	--	--	--	--	<.10	--
413351096324918	--	--	--	--	--	--	--	--	--	--	<.10	--
	<1	<.003	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	--	<.013
	--	--	--	--	--	--	--	--	--	--	<.10	--
413351096324919	--	--	--	--	--	--	--	--	--	--	<.10	--
	<1	<.003	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	--	E.006n

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Metribuzin, water, fltrd, ug/L (82630)	Myclobutanil water, fltrd, ug/L (61599)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propachlor OA, water, fltrd 0.7u GF ug/L (62767)
DODGE COUNTY												
413351096324901	--	--	--	--	--	--	--	--	--	--	--	--
413351096324902	--	--	--	--	--	--	--	--	--	--	--	--
	<.006	<.008	<.022	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324903	--	--	--	--	--	--	--	--	--	--	--	--
413351096324905	--	--	--	--	--	--	--	--	--	--	--	--
413351096324906	--	--	--	--	--	--	--	--	--	--	--	--
413351096324907	--	--	--	--	--	--	--	--	--	--	--	--
413351096324908	--	--	--	--	--	--	--	--	--	--	--	--
413351096324909	--	--	--	--	--	--	--	--	--	--	--	--
413351096324910	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324911	--	--	--	--	--	--	--	--	--	--	--	--
	<.006	<.008	<.022	<.10	<.011	--u	<.008	<.01	<.005	<.004	<.05	<.02
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324912	--	--	--	--	--	--	--	--	--	--	--	--
413351096324913	--	--	--	--	--	--	--	--	--	--	--	--
413351096324914	--	--	--	--	--	--	--	--	--	--	--	--
413351096324916	--	--	--	--	--	--	--	--	--	--	--	--
413351096324917	--	--	--	--	--	--	--	--	--	--	--	--
413351096324918	--	--	--	--	--	--	--	--	--	--	--	--
	<.006	<.008	<.022	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324919	--	--	--	--	--	--	--	--	--	--	--	--
	<.006	<.008	<.022	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Dichlorvos, water fltrd, ug/L (38775)
DODGE COUNTY							
413351096324901	--	--	--	--	--	--	--
413351096324902	--	--	--	--	--	--	--
	<.005	<.02	<.07	<.02	<.01	<.009	<.01
	--	--	--	--	--	--	--
413351096324903	--	--	--	--	--	--	--
413351096324905	--	--	--	--	--	--	--
413351096324906	--	--	--	--	--	--	--
413351096324907	--	--	--	--	--	--	--
413351096324908	--	--	--	--	--	--	--
413351096324909	--	--	--	--	--	--	--
413351096324910	--	--	--	--	--	--	--
	--	--	--	--	--	--	--
	--	--	--	--	--	--	--
413351096324911	--	--	--	--	--	--	--
	<.005	<.02	<.07	<.02	<.01	<.009	<.01
	--	--	--	--	--	--	--
413351096324912	--	--	--	--	--	--	--
413351096324913	--	--	--	--	--	--	--
413351096324914	--	--	--	--	--	--	--
413351096324916	--	--	--	--	--	--	--
413351096324917	--	--	--	--	--	--	--
413351096324918	--	--	--	--	--	--	--
	<.005	<.02	<.07	<.02	<.01	<.009	<.01
	--	--	--	--	--	--	--
413351096324919	--	--	--	--	--	--	--
	<.005	<.02	<.07	<.02	<.01	<.009	<.01

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
	DODGE COUNTY					
413351096324922	GWSW SITE ACTTR1-2-5C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	04-01-04	1200
	GWSW SITE ACTTR1-2-5C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	1200
413351096324923	GWSW SITE ACTTR1-2-5D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	03-30-04	1500
	GWSW SITE ACTTR1-2-5D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	1300
	GWSW SITE ACTTR1-2-5D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	08-17-04	1330
413351096324924	GWSW SITE ACTTR1-4-1A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	1015
413351096324925	GWSW SITE ACTTR1-4-1C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	03-29-04	1230
	GWSW SITE ACTTR1-4-1C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	0900
	GWSW SITE ACTTR1-4-1C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	08-16-04	1000
413351096324926	GWSW SITE ACTTR1-4-2A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	1110
413351096324927	GWSW SITE ACTTR1-4-2B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	1135
413351096324928	GWSW SITE ACTTR1-4-2C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	04-01-04	1000
	GWSW SITE ACTTR1-4-2C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1130
	GWSW SITE ACTTR1-4-2C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	08-16-04	1200
413351096324930	GWSW SITE ACTTR1-4-3A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1125
413351096324931	GWSW SITE ACTTR1-4-3B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1145
413351096324932	GWSW SITE ACTTR1-4-3C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	03-31-04	1030
	GWSW SITE ACTTR1-4-3C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-17-04	1100
	GWSW SITE ACTTR1-4-3C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	08-16-04	1500
413351096324933	GWSW SITE ACTTR1-4-3D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	03-31-04	1300
	GWSW SITE ACTTR1-4-3D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-17-04	1230
	GWSW SITE ACTTR1-4-3D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	08-17-04	1000
413351096324934	GWSW SITE ACTTR1-4-4A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	1215
413351096324939	GWSW SITE ACTTR1-4-5C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	03-31-04	1430
	GWSW SITE ACTTR1-4-5C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-17-04	1330
	GWSW SITE ACTTR1-4-5C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	08-17-04	1100
413351096324940	GWSW SITE ACTTR1-4-5D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	03-31-04	1130
	GWSW SITE ACTTR1-4-5D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-17-04	1400
	GWSW SITE ACTTR1-4-5D NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	08-17-04	1200

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	UV absorbance, 254 nm, wat flt units /cm (50624)	SUVA, 254 nm, abs units/ mgC/L /meter (63162)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Noncarb hardness, wat flt lab, mg/L as CaCO3 (00905)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
					DODGE COUNTY							
413351096324922	3.41	.048	3.5	2.3	6.8	357	11.5	200	--	57.1	13.8	4.68
	3.41	.067	4.7	2.4	6.8	420	15.7	200	--	56.3	14.0	5.46
413351096324923	6.69	.012	1.3	--	7.0	474	12.2	200	12	57.0	15.2	5.14
	6.69	.015	1.4	3.0	7.0	423	14.1	200	8	55.8	14.7	5.51
	6.69	.028	2.3	--	6.8	519	19.3	190	4	55.0	13.8	6.03
413351096324924	1.11	--	--	2.7	7.0	429	13.6	--	--	--	--	--
413351096324925	3.41	.010	1.3	--	7.2	455	11.1	210	4	62.3	13.4	6.62
	3.41	.010	1.4	2.3	7.2	457	12.9	210	5	61.4	13.2	6.50
	3.41	.015	1.7	.5	7.1	454	14.6	210	5	63.2	13.5	6.52
413351096324926	1.11	--	--	6.9s	7.2	363	16.9	--	--	--	--	--
413351096324927	1.77	--	--	6.6s	6.9	333	16.4	--	--	--	--	--
413351096324928	3.41	.009	.8	1.2	7.1	390	9.3	190	11	56.6	12.0	6.29
	3.41	.009	1.1	2.7	6.9	431	14.7	200	8	58.1	12.6	6.72
	3.41	--	--	--	7.0	448	15.5	210	--	63.9	13.0	6.60
413351096324930	1.11	--	--	2.2	7.0	--	15.1	--	--	--	--	--
413351096324931	1.77	--	--	2.1	6.9	--	14.6	--	--	--	--	--
413351096324932	3.41	.007	.5	2.5	7.0	440	9.4	190	4	55.7	12.5	6.28
	3.41	.007	.9	--	6.9	430	15.7	190	4	55.4	13.3	6.87
	3.41	.007	.7	.2	6.8	411	24.6	190	6	55.4	13.2	6.40
413351096324933	6.69	.007	.5	1.9	6.9	234s	12.1	200	12	57.0	13.3	6.41
	6.69	.008	1.0	--	6.8	423	15.6	190	6	55.7	13.2	6.77
	6.69	.020	1.4	.3	6.9	581	19.6	190	--	53.3	12.6	6.28
413351096324934	1.11	--	--	2.7	7.0	320	17.0	--	--	--	--	--
413351096324939	3.41	.011	.7	3.8	6.8	193s	19.8	--	--	--	--	--
	3.41	.017	1.4	.5	6.6	434	22.0	180	33	51.4	13.7	4.97
	3.41	.013	1.5	.3	6.7	--	18.6	180	25	49.4	13.1	4.59
413351096324940	6.69	.022	2.2	2.1	6.8	414	10.5	190	39	53.0	13.6	4.18
	6.69	.010	.9	--	6.7	407	15.2	190	38	52.2	13.9	4.86
	6.69	.011	1.2	.4	6.7	615	17.7	180	31	51.1	13.4	4.73

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Sulfide water, fltrd, field, mg/L (99118)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)
DODGE COUNTY												
413351096324922	.5	16.4	15	204	.03	4.45	.2	28.2	27.5	.080	279	.37
	.5	15.5	14	202@c	.08	4.51	.2	29.9	27.5	.640	279	.37
413351096324923	.6	19.2	17	193	.05	4.37	.3	24.4	36.8	.630	291	.40
	.6	17.9	16	192@c	.04	4.53	.3	25.6	35.7	.850	287	.38
	.5	17.3	16	191@c	.05	4.48	.3	25.8	37.9	<.090@	290	.39
413351096324924	--	--	--	--	--	--	--	--	--	1.70@	--	--
413351096324925	.6	19.5	16	207	.04	4.16	.3	27.6	39.9	.730	303	.41
	.6	18.6	16	203@c	.04	4.08	.3	27.3	39.6	1.10@	297	.41
	.6	18.9	16	208@c	.05	3.98	.2	27.6	41.2	<.090	302	.41
413351096324926	--	--	--	--	--	--	--	--	--	.930	--	--
413351096324927	--	--	--	--	--	--	--	--	--	.400	--	--
413351096324928	.6	17.9	16	179	.04	4.27	.2	27.3	34.5	.710	285	.38
	.5	17.3	15	189@c	.04	4.06	.3	28.1	35.3	.480	286	.39
	.6	19.0	16	224@c	.05	4.14	.3	29.5	29.0	.490	304	.41
413351096324930	--	--	--	--	--	--	--	--	--	1.11	--	--
413351096324931	--	--	--	--	--	--	--	--	--	.830	--	--
413351096324932	.6	17.7	16	187@c	.05	4.20	.3	28.2	34.1	.570	280	.38
	.6	17.8	16	189@c	.04	4.15	.2	29.0	33.1	1.82@	282	.38
	.5	16.8	15	187@c	.05	3.90	.3	29.0	34.7	.500	279	.38
413351096324933	.6	18.1	16	185	.04	4.18	.3	28.6	32.6	.130	281	.38
	.5	17.5	16	187@c	.05	4.05	.2	28.9	32.6	.860@	280	.37
	.5	15.7	15	187@c	.05	3.91	.2	28.9	34.3	<.090	276	.36
413351096324934	--	--	--	--	--	--	--	--	--	1.11	--	--
413351096324939	--	--	--	148	--	--	--	--	--	.290	--	--
	.5	14.8	14	152@c	.05	4.17	.3	27.8	40.6	3.42@	275	.37
	.4	13.2	14	152@c	.05	4.03	.3	26.9	41.0	<.090	270	.36
413351096324940	.5	14.8	14	150	.09	4.53	.3	26.2	42.9	.220	276	.39
	.5	14.7	14	150@c	.05	4.16	.3	27.4	42.3	1.03@	277	.37
	.4	13.4	13	152@c	.05	4.19	.3	27.3	42.8	<.090	276	.37

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, field, mg/L as N (99120)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, field, mg/L as N (99121)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, field, mg/L (99122)	Ortho-phos-phate, water, fltrd, mg/L (00660)
					DODGE COUNTY							
413351096324922	274	--	.37	.29	--	--	--	<.06	--	<.008	--	1.53
	273	--	.32	.25	--	--	--	<.06	--	<.008	--	1.34
413351096324923	291	--	--	<.04	--	12.1	2.73	2.74	.030	.009	--	.797
	282	--	--	<.04	--	11.5	2.59	2.61	.059	.018	--	.831
	290	--	.26	.20	--	12.4	2.79	2.81	.069	.021	--	.797
413351096324924	--	1.1	--	--	1.0	--	--	--	--	--	1.1	--
413351096324925	300	--	--	<.04	--	--	--	.93	--	<.008	--	.877
	302	--	--	<.04	--	--	--	.86	--	<.008	--	.843
	299	1.2	--	<.04	.4	--	--	.12	--	E.007n	--	.806
413351096324926	--	1.2	--	--	2.7	--	--	--	--	--	.63	--
413351096324927	--	2.2	--	--	2.4	--	--	--	--	--	.60	--
413351096324928	276	--	--	<.04	--	17.2	3.88	3.89	.030	.009	--	.619
	287	--	--	<.04	--	8.85	2.00	2.01	.033	.010	--	.678
	298	--	.39	.30	--	--	--	<.06	--	<.008	--	1.96
413351096324930	--	2.1	--	--	3.5	--	--	--	--	--	.75	--
413351096324931	--	1.9	--	--	1.8	--	--	--	--	--	.68	--
413351096324932	281	--	--	<.04	--	--	--	1.96d	--	E.005n	--	.687
	282	--	--	E.02n	--	--	--	1.82	--	<.008	--	.675
	280	--	--	<.04	--	--	--	1.53	--	<.008	--	.696
413351096324933	279	--	--	<.04	--	--	--	2.14	--	<.008	--	.622
	270	--	--	E.02n	--	--	--	1.90	--	<.008	--	.659
	266	--	--	E.03n	--	--	--	1.66	--	<.008	--	.656
413351096324934	--	.8	--	--	.4	--	--	--	--	--	1.1	--
413351096324939	--	--	--	<.04	6.7	--	--	5.92d	--	<.008	--	.898
	275	--	--	E.02n	--	--	--	5.64d	--	E.006n	--	.932
	265	--	--	<.04	--	--	--	5.77d	--	E.004n	--	.895
413351096324940	285	--	--	<.04	--	--	--	5.80d	--	E.004n	--	.868
	269	--	--	E.02n	--	--	--	5.96d	--	<.008	--	.868
	271	--	--	<.04	--	--	--	6.00d	--	<.008	--	.871

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Orthophosphate, water, fltrd, mg/L as P (00671)	Total nitrogen, wat flt by analysis, mg/L (62854)	Iron (II), water, fltrd, field, mg/L (99114)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	1-Naphthol, water, fltrd 0.7u GF ug/L (49295)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Ethyl-6methylphenyl)amino]2oxoESA ug/L (62850)	2Chloro-2,6'-'diethylacetanilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl-6-methylaniline water, fltrd, ug/L (61620)	3,4-Dichloroaniline water fltrd, ug/L (61625)
DODGE COUNTY												
413351096324922	.500d	.42	1.56	1,660	793	--	--	--	--	--	--	--
	.437d	.37	1.41	1,590	729	<.09	<.006	<.02	<.005	<.006	<.004	<.004
413351096324923	.260d	2.78	.010	<6	17.4	--	--	--	--	--	--	--
	.271d	2.69	.020	<6	16.2	<.09	<.006	<.02	<.005	E.005n	<.004	<.004
	.260d	3.08	.110@	653	537	--	--	--	--	--	--	--
413351096324924	--	--	.050@	--	--	--	--	--	--	--	--	--
413351096324925	.286d	.92	.130	31	5.0	--	--	--	--	--	--	--
	.275d	.89	.010@	13	5.0	<.09	<.006	<.02	<.005	E.006n	<.004	<.004
	.263d	.18	.110	142	91.9	--	--	--	--	--	--	--
413351096324926	--	--	.090	--	--	--	--	--	--	--	--	--
413351096324927	--	--	.040	--	--	--	--	--	--	--	--	--
413351096324928	.202d	3.66	.010	7	21.2	--	--	--	--	--	--	--
	.221d	2.03	<.000	<6	3.8	<.09	<.006	<.02	<.005	E.007	<.004	<.004
	.639d	.39	1.01	995	1,390	--	--	--	--	--	--	--
413351096324930	--	--	.020	--	--	--	--	--	--	--	--	--
413351096324931	--	--	.010	--	--	--	--	--	--	--	--	--
413351096324932	.224d	1.95d	.020	<6	E.4n	--	--	--	--	--	--	--
	.220d	1.91	.020@	<6	<.8	<.09	<.006	<.02	<.005	E.002t	<.004	<.004
	.227d	1.55	.030	<6	E.6n	--	--	--	--	--	--	--
413351096324933	.203d	2.38d	.020	<6	<.8	--	--	--	--	--	--	--
	.215d	2.15	.000@	<6	E.4n	<.09	<.006	<.02	<.005	E.002t	<.004	<.004
	.214d	1.74	.000	<6	E.6n	--	--	--	--	--	--	--
413351096324934	--	--	1.42	--	--	--	--	--	--	--	--	--
413351096324939	.293d	5.97d	.080	--	--	--	--	--	--	--	--	--
	.304d	5.87d	.010@	<6	75.3	<.09	<.006	<.02	<.005	<.006	<.004	<.004
	.292d	5.79d	.000	29	109	--	--	--	--	--	--	--
413351096324940	.283d	5.95d	.030	138	20.1	--	--	--	--	--	--	--
	.283d	6.16d	.010@	<6	E.4n	<.09	<.006	<.02	<.005	E.003n	<.004	<.004
	.284d	5.82d	.000	<6	1.0	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto-chlor ESA, water, fltrd 0.7u GF ug/L (61029)	Aceto-chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto-chlor SAA, water, fltrd, ug/L (62847)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor ESA SA, water, fltrd, ug/L (62849)	Ala-chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala-chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala-chlor SAA, water, fltrd, ug/L (62848)	Ala-chlor, water, fltrd, ug/L (46342)	Atra-zine, wat flt immuno-assay unadj. ug/L (99775)	Atra-zine, water, fltrd, ug/L (39632)
DODGE COUNTY												
413351096324922	-- <.006	-- <.02	-- <.02	-- .07	-- <.006	-- <.02	-- .23	-- <.02	-- <.02	-- <.005	<.10 --	-- E.005n
413351096324923	-- <.006 --	-- <.02 --	-- <.02 --	-- <.02 --	-- .006 --	-- <.02 --	-- .15 --	-- <.02 --	-- <.02 --	-- <.005 --	.09 -- <.10	-- E.005n --
413351096324924	--	--	--	--	--	--	--	--	--	--	<.10	--
413351096324925	-- <.006 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.005 --	<.10 -- <.10	-- <.007 --
413351096324926	--	--	--	--	--	--	--	--	--	--	<.10	--
413351096324927	--	--	--	--	--	--	--	--	--	--	<.10	--
413351096324928	-- <.006 --	-- <.02 --	-- <.02 --	-- <.02 --	-- .006 --	-- <.02 --	-- .02 --	-- <.02 --	-- <.02 --	-- <.005 --	<.10 -- <.10	-- <.007 --
413351096324930	--	--	--	--	--	--	--	--	--	--	<.10	--
413351096324931	--	--	--	--	--	--	--	--	--	--	<.10	--
413351096324932	-- <.006 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.02 --	-- .03 --	-- <.02 --	-- <.02 --	-- <.005 --	<.10 -- <.10	-- <.007 --
413351096324933	-- <.006 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.005 --	<.10 -- <.10	-- E.001t --
413351096324934	--	--	--	--	--	--	--	--	--	--	<.10	--
413351096324939	-- <.006 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.02 --	-- .09 --	-- <.02 --	-- <.02 --	-- <.005 --	.11 -- <.10	-- E.006n --
413351096324940	-- <.006 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.02 --	-- .12 --	-- <.02 --	-- <.02 --	-- <.005 --	<.10 -- <.10	-- E.004t --

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Azinphosmethyl oxon, water, fltrd, ug/L (61635)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cyfluthrin, water, fltrd, ug/L (61585)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon oxon, water, fltrd, ug/L (61638)
DODGE COUNTY												
413351096324922	-- <.02	-- <.050	-- <.010	-- <.041	-- <.06	-- <.005	-- <.006	-- <.008	-- <.009	-- <.003	-- <.012	-- <.01
413351096324923	-- <.02 --	-- <.050 --	-- <.010 --	-- <.041 --	-- <.06 --	-- <.005 --	-- <.006 --	-- <.008 --	-- <.009 --	-- <.003 --	-- <.012 --	-- <.01 --
413351096324924	--	--	--	--	--	--	--	--	--	--	--	--
413351096324925	-- <.02 --	-- <.050 --	-- <.010 --	-- <.041 --	-- <.06 --	-- <.005 --	-- <.006 --	-- <.008 --	-- <.009 --	-- <.003 --	-- <.012 --	-- <.01 --
413351096324926	--	--	--	--	--	--	--	--	--	--	--	--
413351096324927	--	--	--	--	--	--	--	--	--	--	--	--
413351096324928	-- <.02 --	-- <.050 --	-- <.010 --	-- <.041 --	-- <.06 --	-- <.005 --	-- <.006 --	-- <.008 --	-- <.009 --	-- <.003 --	-- <.012 --	-- <.01 --
413351096324930	--	--	--	--	--	--	--	--	--	--	--	--
413351096324931	--	--	--	--	--	--	--	--	--	--	--	--
413351096324932	-- <.12 --	-- <.050 --	-- <.010 --	-- <.041 --	-- <.06 --	-- <.005 --	-- <.006 --	-- <.008 --	-- <.009 --	-- <.003 --	-- <.012 --	-- <.01 --
413351096324933	-- <.12 --	-- <.050 --	-- <.010 --	-- <.041 --	-- <.06 --	-- <.005 --	-- <.006 --	-- <.008 --	-- <.009 --	-- <.003 --	-- <.012 --	-- <.01 --
413351096324934	--	--	--	--	--	--	--	--	--	--	--	--
413351096324939	-- <.12 --	-- <.050 --	-- <.010 --	-- <.041 --	-- <.06 --	-- <.005 --	-- <.006 --	-- <.008 --	-- <.009 --	-- <.003 --	-- <.012 --	-- <.01 --
413351096324940	-- <.12 --	-- <.050 --	-- <.010 --	-- <.041 --	-- <.06 --	-- <.005 --	-- <.006 --	-- <.008 --	-- <.009 --	-- <.003 --	-- <.012 --	-- <.01 --

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethenamid ESA, water, fltrd, ug/L (61951)	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethenamid water, fltrd, ug/L (61588)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)
DODGE COUNTY												
413351096324922	-- <.005	-- <.08	-- <.009	-- <.02	-- <.02	-- <.02	-- <.006	-- <.03	-- <.004	-- <.008	-- <.03	-- <.03
413351096324923	-- <.005 --	-- <.08 --	-- <.009 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.03 --	-- <.004 --	-- <.008 --	-- <.03 --	-- <.03 --
413351096324924	--	--	--	--	--	--	--	--	--	--	--	--
413351096324925	-- <.005 --	-- <.08 --	-- <.009 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.03 --	-- <.004 --	-- <.008 --	-- <.03 --	-- <.03 --
413351096324926	--	--	--	--	--	--	--	--	--	--	--	--
413351096324927	--	--	--	--	--	--	--	--	--	--	--	--
413351096324928	-- <.005 --	-- <.08 --	-- <.009 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.03 --	-- <.004 --	-- <.008 --	-- <.03 --	-- <.03 --
413351096324930	--	--	--	--	--	--	--	--	--	--	--	--
413351096324931	--	--	--	--	--	--	--	--	--	--	--	--
413351096324932	-- <.005 --	-- <.08 --	-- <.009 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.03 --	-- <.004 --	-- <.008 --	-- <.03 --	-- <.03 --
413351096324933	-- <.005 --	-- <.08 --	-- <.009 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.03 --	-- <.004 --	-- <.008 --	-- <.03 --	-- <.03 --
413351096324934	--	--	--	--	--	--	--	--	--	--	--	--
413351096324939	-- <.005 --	-- <.08 --	-- <.009 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.03 --	-- <.004 --	-- <.008 --	-- <.03 --	-- <.03 --
413351096324940	-- <.005 --	-- <.08 --	-- <.009 --	-- <.02 --	-- <.02 --	-- <.02 --	-- <.006 --	-- <.03 --	-- <.004 --	-- <.008 --	-- <.03 --	-- <.03 --

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Desulfinylfipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufenacet OA, water, fltrd, ug/L (62483)	Flufenacet, water, fltrd, ug/L (62481)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)
DODGE COUNTY												
413351096324922	--	--	--	--	--	--	--	--	--	--	--	--
	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	.005	<.013	<1	<.003
413351096324923	--	--	--	--	--	--	--	--	--	--	--	--
	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324924	--	--	--	--	--	--	--	--	--	--	--	--
413351096324925	--	--	--	--	--	--	--	--	--	--	--	--
	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324926	--	--	--	--	--	--	--	--	--	--	--	--
413351096324927	--	--	--	--	--	--	--	--	--	--	--	--
413351096324928	--	--	--	--	--	--	--	--	--	--	--	--
	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324930	--	--	--	--	--	--	--	--	--	--	--	--
413351096324931	--	--	--	--	--	--	--	--	--	--	--	--
413351096324932	--	--	--	--	--	--	--	--	--	--	--	--
	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324933	--	--	--	--	--	--	--	--	--	--	--	--
	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324934	--	--	--	--	--	--	--	--	--	--	--	--
413351096324939	--	--	--	--	--	--	--	--	--	--	--	--
	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003
	--	--	--	--	--	--	--	--	--	--	--	--
413351096324940	--	--	--	--	--	--	--	--	--	--	--	--
	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.013	<1	<.003
	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metolachlor OA, water, fltrd 0.7u GF ug/L (61044)	Metolachlor, water, fltrd 0.7u GF ELISA, ug/L (82694)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Myclobutanil water, fltrd, ug/L (61599)
DODGE COUNTY												
413351096324922	--	--	--	--	--	--	--	--	<.10	--	--	--
	<.008	<.027	<.005	<.006	<.03	<.015	.07	.02	--	E.006t	<.006	<.008
413351096324923	--	--	--	--	--	--	--	--	<.10	--	--	--
	<.008	<.027	<.005	<.006	<.03	<.015	.03	<.02	--	E.006t	<.006	<.008
	--	--	--	--	--	--	--	--	<.10	--	--	--
413351096324924	--	--	--	--	--	--	--	--	<.10	--	--	--
413351096324925	--	--	--	--	--	--	--	--	<.10	--	--	--
	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	--	<.013	<.006	<.008
	--	--	--	--	--	--	--	--	<.10	--	--	--
413351096324926	--	--	--	--	--	--	--	--	<.10	--	--	--
413351096324927	--	--	--	--	--	--	--	--	<.10	--	--	--
413351096324928	--	--	--	--	--	--	--	--	<.10	--	--	--
	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	--	E.006t	<.006	<.008
	--	--	--	--	--	--	--	--	<.10	--	--	--
413351096324930	--	--	--	--	--	--	--	--	.08	--	--	--
413351096324931	--	--	--	--	--	--	--	--	<.10	--	--	--
413351096324932	--	--	--	--	--	--	--	--	<.10	--	--	--
	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	--	<.013	<.006	<.008
	--	--	--	--	--	--	--	--	<.10	--	--	--
413351096324933	--	--	--	--	--	--	--	--	<.10	--	--	--
	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	--	<.013	<.006	<.008
	--	--	--	--	--	--	--	--	<.10	--	--	--
413351096324934	--	--	--	--	--	--	--	--	<.10	--	--	--
413351096324939	--	--	--	--	--	--	--	--	.11	--	--	--
	<.008	<.027	<.005	<.006	<.03	<.015	.05	<.02	--	E.003t	<.006	<.008
	--	--	--	--	--	--	--	--	<.10	--	--	--
413351096324940	--	--	--	--	--	--	--	--	<.10	--	--	--
	<.008	<.027	<.005	<.006	<.03	<.015	.04	<.02	--	<.013	<.006	<.008
	--	--	--	--	--	--	--	--	<.10	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propachlor OA, water, fltrd 0.7u GF ug/L (62767)	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)
DODGE COUNTY												
413351096324922	-- <.022	-- <.10	-- <.011	-- <.06	-- <.008	-- <.01	-- <.005	-- <.004	-- <.05	-- <.02	-- <.005	-- <.02
413351096324923	-- <.022 --	-- <.10 --	-- <.011 --	-- <.06 --	-- <.008 --	-- <.01 --	-- <.005 --	-- <.004 --	-- <.05 --	-- <.02 --	-- <.005 --	-- <.02 --
413351096324924	--	--	--	--	--	--	--	--	--	--	--	--
413351096324925	-- <.022 --	-- <.10 --	-- <.011 --	-- <.06 --	-- <.008 --	-- <.01 --	-- <.005 --	-- <.004 --	-- <.05 --	-- <.02 --	-- <.005 --	-- <.02 --
413351096324926	--	--	--	--	--	--	--	--	--	--	--	--
413351096324927	--	--	--	--	--	--	--	--	--	--	--	--
413351096324928	-- <.022 --	-- <.10 --	-- <.011 --	-- <.06 --	-- <.008 --	-- <.01 --	-- <.005 --	-- <.004 --	-- <.05 --	-- <.02 --	-- <.005 --	-- <.02 --
413351096324930	--	--	--	--	--	--	--	--	--	--	--	--
413351096324931	--	--	--	--	--	--	--	--	--	--	--	--
413351096324932	-- <.022 --	-- <.10 --	-- <.011 --	-- <.06 --	-- <.008 --	-- <.01 --	-- <.005 --	-- <.004 --	-- <.05 --	-- <.02 --	-- <.005 --	-- <.02 --
413351096324933	-- <.022 --	-- <.10 --	-- <.011 --	-- <.06 --	-- <.008 --	-- <.01 --	-- <.005 --	-- <.004 --	-- <.05 --	-- <.02 --	-- <.005 --	-- <.02 --
413351096324934	--	--	--	--	--	--	--	--	--	--	--	--
413351096324939	-- <.022 --	-- <.10 --	-- <.011 --	-- <.06 --	-- <.008 --	-- <.01 --	-- <.005 --	-- <.004 --	-- <.05 --	-- <.02 --	-- <.005 --	-- <.02 --
413351096324940	-- <.022 --	-- <.10 --	-- <.011 --	-- <.06 --	-- <.008 --	-- <.01 --	-- <.005 --	-- <.004 --	-- <.05 --	-- <.02 --	-- <.005 --	-- <.02 --

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Dichlorvos, water fltrd, ug/L (38775)
DODGE COUNTY					
413351096324922	--	--	--	--	--
	<.07	<.02	<.01	<.009	<.01
413351096324923	--	--	--	--	--
	<.07	<.02	<.01	<.009	<.01
	--	--	--	--	--
413351096324924	--	--	--	--	--
413351096324925	--	--	--	--	--
	<.07	<.02	<.01	<.009	<.01
	--	--	--	--	--
413351096324926	--	--	--	--	--
413351096324927	--	--	--	--	--
413351096324928	--	--	--	--	--
	<.07	<.02	<.01	<.009	<.01
	--	--	--	--	--
413351096324930	--	--	--	--	--
413351096324931	--	--	--	--	--
413351096324932	--	--	--	--	--
	<.07	<.02	<.01	<.009	<.01
	--	--	--	--	--
413351096324933	--	--	--	--	--
	<.07	<.02	<.01	<.009	<.01
	--	--	--	--	--
413351096324934	--	--	--	--	--
413351096324939	--	--	--	--	--
	<.07	<.02	<.01	<.009	<.01
	--	--	--	--	--
413351096324940	--	--	--	--	--
	<.07	<.02	<.01	<.009	<.01
	--	--	--	--	--

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
	DODGE COUNTY					
413351096324942	GWSW SITE ACTTR1-1-1B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-21-04	0935
413351096324943	GWSW SITE ACTTR1-1-1C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-21-04	0920
413351096324944	GWSW SITE ACTTR1-1-2A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-21-04	0825
413351096324945	GWSW SITE ACTTR1-1-2B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-21-04	0840
413351096324946	GWSW SITE ACTTR1-1-2C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-21-04	0900
413351096324947	GWSW SITE ACTTR1-1-3A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	1445
413351096324948	GWSW SITE ACTTR1-1-3B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	1505
413351096324949	GWSW SITE ACTTR1-1-3C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	1535
413351096324950	GWSW SITE ACTTR1-1-4A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	1330
413351096324951	GWSW SITE ACTTR1-1-4B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	1345
413351096324952	GWSW SITE ACTTR1-1-4C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	1420
413351096324953	GWSW SITE ACTTR1-1-5A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	1240
413351096324954	GWSW SITE ACTTR1-1-5B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-20-04	1305
413351096324956	GWSW SITE ACTTR1-3-1A NEAR NICKERSON,NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1510
413351096324957	GWSW SITE ACTTR1-3-1B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1540
413351096324958	GWSW SITE ACTTR1-3-1C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1600
413351096324959	GWSW SITE ACTTR1-3-2A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1400
413351096324960	GWSW SITE ACTTR1-3-2B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1420
413351096324961	GWSW SITE ACTTR1-3-2C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1445

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Sulfide water, fltrd, field, mg/L (99118)	Ammonia water, fltrd, field, mg/L as N (99120)	Nitrate water, fltrd, field, mg/L as N (99121)	Ortho-phos-phate, water, fltrd, field, mg/L (99122)	Iron (II), water, fltrd, field, mg/L (99114)	Atra-zine, wat flt immuno-assay unadj. ug/L (99775)	Metola-chlor, water, fltrd 0.7u GF ELISA, ug/L (82694)
DODGE COUNTY												
413351096324942	1.77	1.8	6.9	446	15.8	.830	1.5	.5	1.9	1.23	<.10	<.10
413351096324943	3.41	1.9	6.9	384	14.1	.730	1.2	.6	2.7	2.27	<.10	<.10
413351096324944	1.11	2.1	7.5	575	18.7	.640	4.2	.4	1.2	.100	3.90	1.7
413351096324945	1.77	2.0	7.1	479	17.7	1.07	4.9	.9	1.0	.030	.05	.11
413351096324946	3.41	1.7	7.0	463	16.2	.430	3.2	1.6	.92	.030	<.10	<.10
413351096324947	1.11	1.8	7.5	480	18.7	1.86	.8	.4	1.0	.030	<.10	.15
413351096324948	1.77	1.8	7.1	437	17.6	.360	3.3	1.2	.97	.010	<.10	<.10
413351096324949	3.41	1.8	7.0	432	17.1	.530	2.9	1.9	1.0	.030	<.10	<.10
413351096324950	1.11	1.9	7.3	458	--	.330	1.6	.2	.97	.030	.91	.63
413351096324951	1.77	1.9	7.0	413	--	.500@	.4	.7	.74	.020@	<.10	<.10
413351096324952	3.41	1.6	7.0	427	--	1.21	2.8	1.1	.40	.010	<.10	.06
413351096324953	1.11	1.8	6.8	393	19.3	1.28@	1.1	.3	.89	.010@	<.10	.06
413351096324954	1.77	1.8	6.8	387	17.3	.230	.7	.4	.95	.070	<.10	.07
413351096324956	1.11	9.1s	7.5	--	19.6	.350@	3.6	.2	2.3	.390@	1.14	.89
413351096324957	1.77	9.0s	7.2	--	19.5	1.03	1.3	.7	1.2	.100	<.10	.06
413351096324958	3.41	8.6s	7.1	--	18.7	.250	3.9	.5	1.1	.170	<.10	.13
413351096324959	1.11	1.7	7.1	--	17.2	.420	1.1	.4	.89	.020	.06	.07
413351096324960	1.77	1.9	7.3	--	17.0	.910	1.2	.4	.84	.020	<.10	.19
413351096324961	3.41	2.1	7.1	--	15.2	.780	1.7	.5	1.2	.450	<.10	<.10

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
	DODGE COUNTY					
413351096324962	GWSW SITE ACTTR1-3-3A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1245
413351096324963	GWSW SITE ACTTR1-3-3B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1315
413351096324964	GWSW SITE ACTTR1-3-3C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1335
413351096324965	GWSW SITE ACTTR1-3-4A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	1525
413351096324966	GWSW SITE ACTTR1-3-4B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	1545
413351096324967	GWSW SITE ACTTR1-3-4C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	1605
413351096324968	GWSW SITE ACTTR1-3-5A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	1405
413351096324969	GWSW SITE ACTTR1-3-5B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	1425
413351096324970	GWSW SITE ACTTR1-3-5C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	1445
413351096324971	GWSW SITE ACTTR1-5-1A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-17-04	1130
413351096324972	GWSW SITE ACTTR1-5-1B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-17-04	1155
413351096324973	GWSW SITE ACTTR1-5-1C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	0840
413351096324974	GWSW SITE ACTTR1-5-2A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-17-04	1250
413351096324975	GWSW SITE ACTTR1-5-2B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	0910
413351096324976	GWSW SITE ACTTR1-5-2C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-18-04	0945
413351096324977	GWSW SITE ACTTR1-5-3A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-17-04	1410
413351096324978	GWSW SITE ACTTR1-5-3B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-17-04	1425
413351096324979	GWSW SITE ACTTR1-5-3C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-17-04	1440
413351096324980	GWSW SITE ACTTR1-5-4A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	0945

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Sulfide water, fltrd, field, mg/L (99118)	Ammonia water, fltrd, field, mg/L as N (99120)	Nitrate water, fltrd, field, mg/L as N (99121)	Ortho-phos-phate, water, fltrd, field, mg/L (99122)	Iron (II), water, fltrd, field, mg/L (99114)	Atra-zine, wat flt immuno-assay unadj. ug/L (99775)	Metola-chlor, water, fltrd 0.7u GF ELISA, ug/L (82694)
DODGE COUNTY												
413351096324962	1.11	3.4	7.2	250	17.2	.570	1.2	.4	1.2	.010	.07	.19
413351096324963	1.77	2.1	7.2	197	16.1	.200	3.5	.5	2.6	1.87	.13	.20
413351096324964	3.41	1.7	7.0	--	15.1	.970	3.1	.4	.97	.340	<.10	<.10
413351096324965	1.11	6.4	6.6	311	17.1	.160	.6	.7	.80	.040	<.10	<.10
413351096324966	1.77	2.6	6.9	320	14.8	1.03	1.3	.6	.84	.040	<.10	<.10
413351096324967	3.41	1.8	7.0	329	15.7	.670@	1.0	.5	.87	.090@	<.10	<.10
413351096324968	1.11	3.1	7.2	402	18.0	.450	2.3	1.8	.99	.050	.15	<.10
413351096324969	1.77	3.3	6.8	337	16.8	.830@	.6	3.9	1.0	.040@	<.10	<.10
413351096324970	3.41	2.8	6.6	324	15.5	.970	3.7	.8	1.5	.350	<.10	<.10
413351096324971	1.11	2.0	7.1	466	16.7	.250	<.5	.6	.72	.090	<.10	<.10
413351096324972	1.77	2.1	7.1	435	17.7	1.22@	3.0	1.0	1.2	.010@	<.10	<.10
413351096324973	3.41	3.0	7.0	441	13.6	.370	1.4	6.6	1.0	.020	4.57	1.5
413351096324974	1.11	3.5	7.0	424	15.7	.830@	1.7	2.8	.99	.030@	<.10	<.10
413351096324975	1.77	2.6	7.3	430	13.9	1.11	1.3	2.7	.95	.030	<.10	<.10
413351096324976	3.41	7.3s	7.2	370	13.2	.590	2.3	2.8	.86	.050	<.10	<.10
413351096324977	1.11	2.1	6.9	407	15.7	.540	6.5	3.0	1.1	.020	<.10	<.10
413351096324978	1.77	2.2	6.9	393	14.6	.620	.2	3.0	1.0	.010	<.10	<.10
413351096324979	3.41	2.3	6.9	399	14.1	.620	.5	3.2	1.1	.030	<.10	<.10
413351096324980	1.11	2.9	6.9	385	13.2	1.03	.8	8.1	1.1	.010	<.10	.15

Station number	Station name	Latitude	Longitude	Geologic unit	Date	Time
	DODGE COUNTY					
413351096324981	GWSW SITE ACTTR1-5-4B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	0850
413351096324982	GWSW SITE ACTTR1-5-4C NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	0935
413351096324983	GWSW SITE ACTTR1-5-5A NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1000
413351096324984	GWSW SITE ACTTR1-5-5B NEAR NICKERSON, NE	41 33 51 N	096 32 49 W	111ALVM	05-19-04	1025
413351096325001	SEEPAGE METER SITE ACTTR1-1A NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1251
	SEEPAGE METER SITE ACTTR1-1A NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1429
413351096325002	SEEPAGE METER SITE ACTTR1-1B NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1250
413351096325003	SEEPAGE METER SITE ACTTR1-2A NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1301
	SEEPAGE METER SITE ACTTR1-2A NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1527
413351096325004	SEEPAGE METER SITE ACTTR1-2B NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1259
	SEEPAGE METER SITE ACTTR1-2B NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1447
413351096325005	SEEPAGE METER SITE ACTTR1-3A NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1219
	SEEPAGE METER SITE ACTTR1-3A NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1508
413351096325006	SEEPAGE METER SITE ACTTR1-3B NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1218
	SEEPAGE METER SITE ACTTR1-3B NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1507
413351096325007	SEEPAGE METER SITE ACTTR1-4A NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1341
	SEEPAGE METER SITE ACTTR1-4A NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1550
413351096325008	SEEPAGE METER SITE ACTTR1-4B NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1340
	SEEPAGE METER SITE ACTTR1-4B NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1610
413351096325009	SEEPAGE METER SITE ACTTR1-5A NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1201
	SEEPAGE METER SITE ACTTR1-5A NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1416
413351096325010	SEEPAGE METER SITE ACTTR1-5B NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1202
	SEEPAGE METER SITE ACTTR1-5B NEAR NICKERSON, NE	41 33 51 N	096 32 50 W	--	07-21-04	1415

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
GROUND WATER/SURFACE WATER—Continued

MULTIPLE STATION ANALYSES—CONTINUED

Station number	Depth of well, feet below LSD (72008)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Sulfide water, fltrd, field, mg/L (99118)	Ammonia water, fltrd, field, mg/L as N (99120)	Nitrate water, fltrd, field, mg/L as N (99121)	Ortho-phos-phate, water, fltrd, field, mg/L (99122)	Iron (II), water, fltrd, field, mg/L (99114)	Atra-zine, wat flt immuno-assay unadj. ug/L (99775)	Metola-chlor, water, fltrd 0.7u GF ELISA, ug/L (82694)
					DODGE COUNTY							
413351096324981	1.77	2.6	7.8	403	14.2	.800	4.5	8.8	1.0	.030	<.10	<.10
413351096324982	3.41	3.1	7.3	385	13.8	.240	.5	7.6	1.0	.090	<.10	.07
413351096324983	1.11	2.6	7.0	520	16.8	.470	1.2	4.1	1.6	.010	>5.00	2.3
413351096324984	1.77	2.5	7.0	405	16.6	.150	1.3	--	1.2	.010	<.10	.08
413351096325001	--	--	--	--	--	<.090	<.5	1.8	.64	.110	.51	.20
	--	--	--	--	--	.460	4.2	.8	.66	.000	1.64	.41
413351096325002	--	--	--	--	--	.710	1.4	1.1	.70	.300	1.10	.23
413351096325003	--	--	--	--	--	.410@	3.1	.9	.50	.060@	.13	<.10
	--	--	--	--	--	.460	3.7	.6	.62	.030	.07	<.10
413351096325004	--	--	--	--	--	.190@	4.2	1.5	.44	.060@	.28	<.10
	--	--	--	--	--	.370	3.7	3.1	.75	.000	.23	<.10
413351096325005	--	--	--	--	--	.560@	1.7	2.1	.47	.000@	.29	.15
	--	--	--	--	--	.540@	.6	2.4	.52	.020@	.18	.09
413351096325006	--	--	--	--	--	.620	<.5	3.8	.87	.120	.09	<.10
	--	--	--	--	--	.710	2.4	2.2	1.1	.090	.06	<.10
413351096325007	--	--	--	--	--	.530@	.5	1.9	.53	.050@	.06	.15
	--	--	--	--	--	<.090	2.4	2.3	4.2	.020	.05	<.10
413351096325008	--	--	--	--	--	.620	3.0	1.9	.72	.090	.19	.17
	--	--	--	--	--	.460	2.6	1.4	.89	.060	.11	.06
413351096325009	--	--	--	--	--	.880@	1.3	4.0	.58	.170@	.21	.22
	--	--	--	--	--	.440	<.5	2.4	.55	.240	.11	.06
413351096325010	--	--	--	--	--	<.090	1.4	3.6	.83	.140	.13	.07
	--	--	--	--	--	.560	<.5	3.4	1.3	.140	.07	<.10

Remark codes used in this table:
< -- Less than
> -- Greater than
E -- Estimated value

Value qualifier codes used in this table:
@ -- Holding time exceeded
c -- See laboratory comment
d -- Diluted sample: method hi range exceeded
n -- Below the LRL and above the LT-MDL
s -- Instrument sensitivity problem
t -- Below the long-term MDL

Null value qualifier codes used in this table:
u -- Unable to determine-matrix interference

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL

Date	Time	Depth of well, feet below LSD (72008)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	SUVA, 254 nm, abs units/ mgC/L /meter (63162)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Hard-ness, water, mg/L as CaCO3 (00900)	Noncarb hard-ness, wat flt lab, mg/L as CaCO3 (00905)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	1030	5	--	--	--	--	--	--	--	--	--	--	--
12...	1110	5	--	--	--	--	--	--	--	--	--	--	--
MAY													
10...	2005	5	--u	--u	8.0	350	270	--	71.9	21.6	3.73	.9	32.2
11...	1105	5	--u	--u	8.7	500	260	58	68.6	21.3	3.20	.7	25.0
14...	0815	5	--u	--u	9.1	480	260	44	69.9	21.9	3.17	.6	21.8
24...	1005	5	--	--	8.0	470	--	--	--	--	--	--	--
JUN													
22...	1020	5	--	--	--	--	300	59	78.5	24.7	2.99	.4	14.5
JUL													
06...	1035	5	--	--	7.8	530	310	120	79.6	25.8	3.23	.3	13.6
22...	0925	5	--	--	8.0	670	310	63	80.5	25.8	3.56	.3	13.3
23...	0900	5	--	--	7.1	470	290	8	76.0	24.5	3.36	.3	12.2
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	1110	8	--	--	--	--	--	--	--	--	--	--	--
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	1035	13	--	--	--	--	--	--	--	--	--	--	--
12...	1110	13	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	0820	13	--	--	9.3	850	--	--	--	--	--	--	--
24...	1015	13	--	--	8.5	900	--	--	--	--	--	--	--
JUL													
22...	0930	13	--	--	8.8	890	--	--	--	--	--	--	--
23...	0910	13	--	--	8.0	700	--	--	--	--	--	--	--
AUG													
25...	1430	13	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	1348	13	--	--	--	--	--	--	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	1040	25	--u	--u	--	--	510	--	164	24.2	14.3	3	131
12...	1110	25	--	--	--	--	--	--	--	--	--	--	--
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	1030	5	--	--	8.0	376	--	--	--	--	--	--	--
MAY													
11...	1400	5	--	--	7.7	540	--	--	--	--	--	--	--
14...	1030	5	--	--	8.7	470	--	--	--	--	--	--	--
18...	1605	5	--	--	7.9	550	--	--	--	--	--	--	--
24...	1235	5	--	--	8.0	570	--	--	--	--	--	--	--
JUN													
14...	1135	5	--	--	8.9	610	--	--	--	--	--	--	--

Date	Sodium, percent (00932)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	.12	.09	14.3	3.23
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
10...	20	--o	.08	25.1	1.0	61.2	66.3	--	--	--	E.04n	15.7	3.54
11...	17	201@c	.11	15.6	1.1	58.1	47.6	380	.52	.06	.04	18.3	4.13
14...	15	221@c	.04	10.4	1.2	59.0	38.4	377	.51	.07	.06	19.0	4.29
24...	--	231@c	--	--	--	--	--	--	--	--	E.03n	23.7	5.36
JUN													
22...	9	238@c	E.01n	3.86	1.1	68.5	46.6	410	.56	.08	.07	--	--
JUL													
06...	9	190@c	.28	2.81	1.1	66.2	39.3	376	.51	.17	.13	30.1	6.80
22...	8	244@c	6.41d	1.91	1.1	66.8	35.7	413	.56	.29	.22	--	--
23...	8	283@c	5.03d	1.50	1.2	61.9	27.5	411	.56	.11	.08	--	--
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	.46	.36	33.8	7.63
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	.38	.30	32.1	7.25
24...	--	--	--	--	--	--	--	--	--	.07	.05	29.9	6.76
JUL													
22...	--	--	--	--	--	--	--	--	--	2.58	2.00d	30.6	6.92
23...	--	--	--	--	--	--	--	--	--	1.01	.78	31.4	7.08
AUG													
25...	--	--	--	--	--	--	--	--	--	5.41	4.20d	36.7	8.30
SEP													
22...	--	--	--	--	--	--	--	--	--	3.88	3.01d	39.6	8.95
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	35	--	.36	107	.3	63.0	154	--	--	.52	.40	35.2	7.96
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	--	--	--	--	--	--	--	--	--	.26	.20	49.9	11.3
MAY													
11...	--	--	--	--	--	--	--	--	--	.06	.05	62.1	14.0
14...	--	--	--	--	--	--	--	--	--	--	E.04n	--	--
18...	--	--	--	--	--	--	--	--	--	--	<.08d	62.2	14.1
24...	--	--	--	--	--	--	--	--	--	--	E.02n	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	1.01	.78	121	27.4

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Total nitro-gen, wat flt by anal ysis, mg/L (62854)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA ug/L (62850)	2Chloro-2',6'-diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	3.28	.171	.052	3.12	1.02	26.6d	--	--	<.09	<.006	.51	<.005	<.006
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
10...	3.55	.033	.010	.294	.10oc	6.43d	E5n	37.5	<.09	<.006	.63	<.005	<.006
11...	4.14	.033	.010	.233	.08oc	5.63d	<6	21.3	<.09	<.006	.02	<.005	E.044
14...	4.30	.036	.011	.239	.08oc	6.01d	7	15.9	<.09	<.006	.43	<.005	E.055
24...	5.38d	.056	.017	.402	.13oc	8.85d	--	--	<.09	<.006	<.02	<.005	E.105
JUN													
22...	5.79d	--	<.008	.411	.13oc	9.52d	<6	11.4	<.09	<.006	--	<.005	E.118
JUL													
06...	6.81d	.030	.009	.297	.10oc	9.09d	E4n	7.0	<.09	<.006	--	<.005	E.105
22...	6.98d	--	E.005n	.184	.06	11.7d	<6	6.8	<.09	<.006	--	<.005	E.094
23...	6.36d	--	<.008	.258	.08oc	9.29d	E4n	3.7	<.09	<.006	--	<.005	E.101
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	7.73d	.338	.103	6.13	2.00doc	55.4d	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	7.26d	.043	.013	.862	.28oc	21.2d	--	--	--	--	--	--	--
24...	6.90d	.460	.140	.797	.26oc	27.7d	--	--	--	--	--	--	--
JUL													
22...	6.94d	.082	.025	.714	.23	39.7d	--	--	--	--	--	--	--
23...	7.09d	.030	.009	.258	.08oc	16.8d	--	--	--	--	--	--	--
AUG													
25...	8.35d	.161	.049	.763	.25oc	84.6d	--	--	--	--	--	--	--
SEP													
22...	8.98d	.105	.032	.227	.074	51.8d	--	--	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	8.01d	.174	.053	.558	.18doc	10.4d	E5n	201	<.09	<.006	<.02	<.005	<.006
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	11.3d	.039	.012	.595	.19oc	16.4d	--	--	<.09	<.006	--	<.005	<.006
MAY													
11...	14.0d	.039	.012	.438	.14oc	17.7d	--	--	<.09	<.006	.55	<.005	<.006
14...	14.3d	--	E.006n	.322	.10oc	17.6d	--	--	<.09	<.006	.62	<.005	<.006
18...	14.1d	.079	.024d	.129	.04doc	16.6d	--	--	<.09	<.006	.77	<.005	<.006
24...	16.7d	--	E.004n	.245	.08oc	18.6d	--	--	<.09	<.006	.87	<.040	<.006
JUN													
14...	27.4d	.102	.031	.316	.10oc	33.8d	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto- chlor ESA, water, fltrd 0.7u GF ug/L (61029)	Aceto- chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto- chlor SAA, water, fltrd, ug/L (62847)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor ESA SA, water, fltrd, ug/L (62849)	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala- chlor SAA, water, fltrd, ug/L (62848)	Ala- chlor, water, fltrd, ug/L (46342)	Amino- methyl- phos- phonic acid, wat flt ug/L (62649)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	<.004	<.004	<.006	<.02	.02	<.02	<.006	<.02	<.02	<.02	<.02	--u	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
10...	<.004	<.004	<.006	.50	.34	.15	.180	<.02	<.02	<.02	.14	--u	.3
11...	<.004	<.004	<.006	.55	.45	.03	.211	.12	.53	<.02	.16	<.005	.3
14...	<.004	<.004	<.006	.48	.42	.17	.166	<.02	.02	<.02	.13	<.005	.5
24...	<.004	<.004	<.006	.72	.74	.46	.197	<.02	<.02	.02	.24	.077	.2
JUN													
22...	<.004	<.004	<.006	--	--	--	.086	--	--	--	--	.044	.6
JUL													
06...	<.004	<.004	<.006	--	--	--	.081	--	--	--	--	<.005	.2
22...	<.004	<.004	<.006	--	--	--	.070	--	--	--	--	<.005	1.3
23...	<.004	<.004	<.006	--	--	--	.046	--	--	--	--	<.005	.3
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	<.02	<.02	<.02	--u	<.1
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	<.004	<.004	<.006	--	--	--	<.006	--	--	--	--	--u	--
MAY													
11...	<.004	<.004	<.006	.05	.04	<.02	<.006	<.02	.06	.04	<.02	<.005	<.1
14...	<.004	<.004	<.006	.05	.03	<.02	<.006	<.02	.06	.03	<.02	--u	.2
18...	<.004	<.004	<.006	.05	.03	<.02	<.006	<.02	.05	.04	<.02	<.005	<.1
24...	<.004	<.004	<.006	.07	.04	<.02	<.006	<.02	.08	.05	<.02	<.005	<.1
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Atrazine, water, fltrd, ug/L (39632)	Azinphos-methyl oxon, water, fltrd, ug/L (61635)	Azinphos-methyl, water, fltrd 0.7u GF ug/L (82686)	Benflur-alin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cyflu-thrin, water, fltrd, ug/L (61585)	Cyper-methrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diaz-inon oxon, water, fltrd, ug/L (61638)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	<.007	<.02	<.050	<.010	<.100	<.06	<.005	<.006	<.008	<.009	<.020	<.012	<.01
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
10...	<.200	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01
11...	.243	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01
14...	.189	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01
24...	.318	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	--u
JUN													
22...	.278	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01
JUL													
06...	.199	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	--u
22...	.158	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01
23...	.218	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	<.007	<.02	<.050	<.010	<.060	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01
MAY													
11...	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01
14...	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.006	<.012	<.01
18...	<.007	<.03c	<.080c	.112	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	<.01
24...	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012	--u
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethenamid ESA, water, fltrd, ug/L (61951)	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethenamid water, fltrd, ug/L (61588)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulfinylfipronil amide, wat flt ug/L (62169)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	<.005	--u	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	--u	--u	<.029
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
10...	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029
11...	<.005	<.08	<.009	<.02	.03	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029
14...	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	--u	<.03	<.029
24...	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029
JUN													
22...	<.005	<.08	<.009	--	--	--	<.006	<.03	<.004	<.008	<.03	<.03	<.029
JUL													
06...	--u	<.08	<.009	--	--	--	<.006	<.0020	<.004	<.049	<.04	<.03	<.029
22...	<.005	<.08	<.009	--	--	--	<.006	<.0020	<.004	<.049	<.04	<.03	<.029
23...	<.005	<.08	<.009	--	--	--	<.006	<.0020	<.004	<.049	<.04	<.03	<.029
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	<.005	--u	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	--u	<.03	<.029
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	<.005	<.08	<.009	--	--	--	<.006	<.03	<.004	<.008	<.03	<.03	<.029
MAY													
11...	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029
14...	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029
18...	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029
24...	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03	<.029
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufenacet OA, water, fltrd, ug/L (62483)	Flufenacet, water, fltrd, ug/L (62481)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Glufosinate, water, fltrd 0.7u GF ug/L (62721)	Glyphosate, water, fltrd 0.7u GF ug/L (62722)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	<.013	<.024	--u	<.02	<.02	<.02	<.002	<.003	--	--	<.013	<1	<.003
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
10...	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.1	<.013	<1	<.003
11...	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.2	<.013	<1	<.003
14...	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	.1	<.013	<1	<.003
24...	<.013	<.024	<.016	<.02	<.02	<.02	<.002	--u	<.1	.1	<.013	<1	<.003
JUN													
22...	<.013	<.024	<.016	--	--	--	<.002	<.003	<.1	.2	<.013	<1	<.003
JUL													
06...	<.013	<.024	<.016	--	--	--	<.003	--u	<.1	<.1	<.013	<.387	<.003
22...	<.013	<.024	<.016	--	--	--	<.003	<.003	<.1	<.1	<.013	<.387	<.003
23...	<.013	<.024	<.016	--	--	--	<.003	<.003	<.1	.1	<.013	<.387	<.003
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	<.013	<.024	<.016	<.02	<.02	<.02	<.350	<.003	<.1	<.1	<.050	<1	<.003
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	<.013	<.024	<.016	--	--	--	<.002	<.003	--	--	<.013	<1	<.003
MAY													
11...	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1	<.003
14...	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1	<.003
18...	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1	<.003
24...	<.013	<.024	<.016	<.02	<.02	<.02	<.002	--u	<.1	<.1	<.013	<1	<.003
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metolachlor OA, water, fltrd 0.7u GF ug/L (61044)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Myclobutanil water, fltrd, ug/L (61599)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	<.200	<.027	<1.00	<.045	<.03	<.015	<.02	<.02	<.350	--u	<.008	<.022	<.10
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
10...	<.008	<.027	<.440	<.006	<.03	<.015	<.02	<.02	<.013	--u	<.008	<.022	<.10
11...	<.008	<.027	--u	<.006	<.03	<.015	<.02	<.02	<.047	<.006	<.008	<.022	<.10
14...	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.056	<.006	<.008	<.022	<.10
24...	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	.103	<.006	<.008	<.022	<.10
JUN													
22...	<.008	<.027	<.028	<.006	<.03	<.015	--	--	.055	<.006	<.008	<.022	<.10
JUL													
06...	<.030	<.027	<.005	<.006	--u	<.015	--	--	.060	<.006	<.008	<.022	<.10
22...	<.030	<.027	<.005	<.006	<.03	<.015	--	--	.065	<.006	<.008	<.022	<.10
23...	<.030	<.027	<.080	<.006	<.03	<.015	--	--	.040	<.006	<.008	<.022	<.10
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	<.090	<.027	<2.00	<.006	<.03	<.015	<.02	<.02	<.200	--u	<.008	<.022	<.10
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	<.008	<.070	<.250	<.006	<.03	<.015	--	--	.280	--u	<.008	<.022	<.10
MAY													
11...	<.008	<.027	<.005	<.006	<.03	<.015	3.40	6.07	.590	<.006	<.008	<.022	<.10
14...	<.008	<.027	<.005	<.006	<.03	<.015	2.31	5.61	.570	--u	<.008	<.022	<.10
18...	<.008	<.140c	<.005	<.006	<.03	<.015	2.86	6.72	.458	<.006	<.008	<.022	<.10
24...	<.008	<.027	<.005	<.006	<.03	<.015	3.32	7.64	.562	<.006	<.008	<.022	<.10
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prome-ton, water, fltrd, ug/L (04037)	Prome-tryn, water, fltrd, ug/L (04036)	Propy-zamide, water, fltrd 0.7u GF ug/L (82676)	Propa-chlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propa-chlor OA, water, fltrd 0.7u GF ug/L (62767)	Sima-zine, water, fltrd, ug/L (04035)	Tebu-thiuron water fltrd 0.7u GF ug/L (82670)	Ter-bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu-fos, water, fltrd 0.7u GF ug/L (82675)	Ter-buthyl-azine, water, fltrd, ug/L (04022)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	<.011	--u	--u	<.03	<.005	--u	<.05	<.02	<.200	<.02	<.07	<.02	<.01
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
10...	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	--u	<.02	--u
11...	<.011	<.06	<.008	<.01	<.005	--u	.31	<.02	<.005	<.02	--u	<.02	--u
14...	<.011	--u	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	<.02	--u
24...	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	--u	--u
JUN													
22...	<.011	<.06	<.008	<.01	<.005	<.004	--	--	<.005	<.02	<.07	<.02	<.01
JUL													
06...	<.011	<.05	<.008	<.01	<.005	--u	--	--	<.005	<.02	<.07	--u	--u
22...	<.011	<.05	<.008	<.01	<.005	<.004	--	--	<.005	<.02	<.07	<.02	<.01
23...	<.011	<.05	<.008	<.01	<.005	<.004	--	--	<.005	<.02	<.22	<.02	<.01
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	<.011	--u	--u	<.03	<.005	--u	<.05	<.02	<.005	<.02	<3.00	<.02	<.01
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	<.011	<.07	<.008	<.01	<.005	<.004	--	--	<.025	<.02	<.10	<.02	<.01
MAY													
11...	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	<.02	--u
14...	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.025	<.02	<.07	<.02	--u
18...	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	<.02	--u
24...	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	--u	--u
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	1-Naphthol, solids, ug/kg (63240)	2,6-Diethylaniline solids, ug/kg (63243)	2Chloro-2',6'-diethylacetanilide solids, ug/kg (63246)	2-Ethyl-6-methylaniline solids, ug/kg (63247)	3,4-Dichloroaniline solids, ug/kg (63248)	4-Chloro-2-methylphenol, solids, ug/kg (63255)	Acetochlor, solids, ug/kg (63257)	Alachlor, solids, ug/kg (63258)	alpha-HCH-d6, surrog, solids, pct rcv (90739)	Atrazine, solids, ug/kg (63262)	Azinphos-methyloxon, solids, ug/kg (63264)	Azinphos-methyl, solids, ug/kg (63263)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	<.009	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	<10mc	<30mc	<1	<30mc	<75mc	<10mc	<1	<1	62.1	<1	<30mc	<5mc
MAY													
10...	<.009	--	--	--	--	--	--	--	--	--	--	--	--
11...	<.009	--	--	--	--	--	--	--	--	--	--	--	--
14...	<.009	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.009	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
22...	<.009	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	<.009	--	--	--	--	--	--	--	--	--	--	--	--
22...	<.009	--	--	--	--	--	--	--	--	--	--	--	--
23...	<.009	--	--	--	--	--	--	--	--	--	--	--	--
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	--	<10mc	<30mc	<1	<30mc	<75mc	<10mc	<1	<1	69.7	<1	<30mc	<5mc
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	<10mc	<30mc	<1	<30mc	<75mc	<10mc	<1	<1	69.1	<1	<30mc	<5mc
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	<.009	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	<10mc	<30mc	<1	<30mc	<75mc	<10mc	<1	<1	64.4	<1	<30mc	<5mc
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	<.035	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	<.009	--	--	--	--	--	--	--	--	--	--	--	--
14...	<.009	--	--	--	--	--	--	--	--	--	--	--	--
18...	<.009	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.009	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Benflur alin, solids, ug/kg (63265)	Car- baryl, solids, ug/kg (63269)	Chlor- pyrifos oxon, solids, ug/kg (63274)	Chlor- pyrifos solids, ug/kg (63273)	cis- Perme- thrin, solids, ug/kg (63365)	Cyflu- thrin, solids, ug/kg (63279)	Cyper- methrin solids, ug/kg (63281)	DCPA, solids, ug/kg (63282)	CIAT, solids, ug/kg (63283)	Desul- finyl- fipro- nil amide, solids, ug/kg (63317)	Desul- finyl- fipro- nil, solids, ug/kg (63316)	Diaz- inon, solids, ug/kg (63284)	Diazi- non-d10 surrog, solids, pct rcv (90740)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<1	<2mc	<30mc	<1	<5	<20mc	<20mc	<1	<2	<1mc	<1	<1	96.0
MAY													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	<1	<2mc	<30mc	<1	<5	<20mc	<20mc	<1	<2	<1mc	<1	<1	107
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<1	<2mc	<30mc	<1	<5	<20mc	<20mc	<1	<2	<1mc	<1	<1	124
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<1	<2mc	<30mc	<1	<5	<20mc	<20mc	<1	<2	<1mc	<1	<1	106
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Diaz-oxon, solids, ug/kg (63285)	Dichlor vos, solids, ug/kg (63286)	Di-croto-phos, solids, ug/kg (63288)	Diel-drin, solids, ug/kg (63289)	Dimeth-oate, solids, ug/kg (63291)	Ethion monoxon solids, ug/kg (63303)	Ethion, solids, ug/kg (63302)	Fenam-iphos sulfone solids, ug/kg (63306)	Fenam-iphos sulfox-ide, solids, ug/kg (63307)	Fenam-iphos, solids, ug/kg (63305)	Fipro-nil sulfide solids, ug/kg (63314)	Fipro-nil sulfone solids, ug/kg (63315)	Fipro-nil, solids, ug/kg (63313)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<5mc	<30mc	<3mc	<2	<2	<2	<2	<10mc	<10mc	<30mc	<1	<1	<1mc
MAY													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	<5mc	<30mc	<3mc	<2	<2	<2	<2	<10mc	<10mc	<30mc	<1	<1	<1mc
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<5mc	<30mc	<3mc	<2	<2	<2	<2	<10mc	<10mc	<30mc	<1	<1	<1mc
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<5mc	<30mc	<3mc	<2	<2	<2	<2	<10mc	<10mc	<30mc	<1	<1	<1mc
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Fonofos oxon, solids, ug/kg (63320)	Fonofos solids, ug/kg (63319)	Hexa-zinone, solids, ug/kg (63321)	Ipro-dione, solids, ug/kg (63322)	Isofen-phos, solids, ug/kg (63323)	Mala-oxon, solids, ug/kg (63326)	Mala-thion, solids, ug/kg (63327)	Meta-laxyl, solids, ug/kg (63328)	Methid-athion, solids, ug/kg (63329)	Metola-chlor, solids, ug/kg (63332)	Metri-buzin, solids, ug/kg (63333)	Myclo-butanil solids, ug/kg (63335)	Para-oxon-methyl, solids, ug/kg (63349)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<5mc	<1	<1	<10mc	<2	<5mc	<2	<1	<2	<1	<4mc	<1mc	<5mc
MAY													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	<5mc	<1	<1	<10mc	<2	<5mc	<2	<1	<2	<1	<4mc	<1mc	<5mc
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<5mc	<1	<1	<10mc	<2	<5mc	<2	<1	<2	<1	E.7mnc	<1mc	<5mc
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<5mc	<1	<1	<10mc	<2	<5mc	<2	<1	<2	<1	<4mc	<1mc	<5mc
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Methyl para-thion, solids, ug/kg (63351)	Pendi-meth-alin, solids, ug/kg (63353)	Phorate oxon, solids, ug/kg (63355)	Phorate solids, ug/kg (63354)	Phosmet oxon, solids, ug/kg (63357)	Phosmet solids, ug/kg (63356)	Prome-ton, solids, ug/kg (63359)	Pro-metryn, solids, ug/kg (63360)	Propyz-amide, solids, ug/kg (63369)	Sima-zine, solids, ug/kg (63370)	Fenam-iphos + sulfox-ide + sulfone solids, ug/kg (63308)	Tebu-thiuron solids, ug/kg (63376)	Terbu-fos, solids, ug/kg (63380)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<2mc	<1	<7mc	<5mc	<10mc	<30mc	<2mc	<2	<2	<2	<50mc	<3mc	<3mc
MAY													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
12...	<2mc	<1	<7mc	<5mc	<10mc	<30mc	<2mc	<2	<2	<2	<50mc	<3mc	<3mc
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<2mc	<1	<7mc	<5mc	<10mc	<30mc	<2mc	<2	<2	<2	<50mc	<3mc	<3mc
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)													
APR 2004													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<2mc	<1	<7mc	<5mc	<10mc	<30mc	<2mc	<2	<2	<2	<50mc	<3mc	<3mc
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Terbufos onon sulfone solids, ug/kg (63383)	Terbuthylazine, solids, ug/kg (63384)	trans-Permethrin, solids, ug/kg (63366)	Trifluralin, solids, ug/kg (63390)	Dichlorvos, water fltrd, ug/L (38775)
413302097090530 VADOSE ZONE ACTVZ1-1A NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)					
APR 2004					
02...	--	--	--	--	<.01
12...	<5mc	<1	<5	<1	--
MAY					
10...	--	--	--	--	<.01
11...	--	--	--	--	<.01
14...	--	--	--	--	<.01
24...	--	--	--	--	<.01
JUN					
22...	--	--	--	--	<.01
JUL					
06...	--	--	--	--	<.01
22...	--	--	--	--	<.01
23...	--	--	--	--	<.01
413302097090531 VADOSE ZONE ACTVZ1-1B NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)					
APR 2004					
12...	<5mc	<1	<5	<1	--
413302097090532 VADOSE ZONE ACTVZ1-1C NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)					
APR 2004					
02...	--	--	--	--	--
12...	<5mc	<1	<5	<1	--
MAY					
14...	--	--	--	--	--
24...	--	--	--	--	--
JUL					
22...	--	--	--	--	--
23...	--	--	--	--	--
AUG					
25...	--	--	--	--	--
SEP					
22...	--	--	--	--	--
413302097090533 VADOSE ZONE ACTVZ1-1D NEAR SCHULYER, NE (LAT 41 33 02N LONG 097 09 05W)					
APR 2004					
02...	--	--	--	--	<.01
12...	<5mc	<1	<5	<1	--
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)					
APR 2004					
15...	--	--	--	--	<.01
MAY					
11...	--	--	--	--	<.01
14...	--	--	--	--	<.01
18...	--	--	--	--	<.01
24...	--	--	--	--	<.01
JUN					
14...	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Time	Depth of well, feet below LSD (72008)	UV absorbance, 254 nm, wat flt units /cm (50624)	SUVA, 254 nm, abs units/ mgC/L /meter (63162)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Hardness, water, mg/L as CaCO3 (00900)	Noncarb hardness, wat flt lab, mg/L as CaCO3 (00905)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	1240	5	--	--	7.8	780	--	--	--	--	--	--	--
17...	1145	5	--	--	7.6	934	--	--	--	--	--	--	--
23...	1035	5	--	--	7.5	730	--	--	--	--	--	--	--
AUG													
05...	1210	5	--	--	7.5	869	--	--	--	--	--	--	--
19...	1330	5	--	--	7.7	303	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	1110	28	--	--	--	--	--	--	--	--	--	--	--
15...	1035	28	--	--	8.0	1060	--	--	--	--	--	--	--
MAY													
11...	1405	28	--	--	7.7	1070	--	--	--	--	--	--	--
14...	1040	28	--	--	8.9	990	--	--	--	--	--	--	--
18...	1610	28	--	--	8.3	1190	--	--	--	--	--	--	--
24...	1240	28	--	--	8.5	970	--	--	--	--	--	--	--
JUN													
14...	1140	28	--	--	7.1	930	--	--	--	--	--	--	--
JUL													
06...	1245	28	--	--	8.2	970	--	--	--	--	--	--	--
17...	1150	28	--	--	7.9	988	--	--	--	--	--	--	--
23...	1040	28	--	--	7.9	790	--	--	--	--	--	--	--
AUG													
05...	1200	28	--	--	8.3	762	--	--	--	--	--	--	--
19...	1320	28	--	--	7.9	330	--	--	--	--	--	--	--
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	1110	65	--	--	--	--	--	--	--	--	--	--	--
15...	1040	65	--u	--u	7.7	1020	350	190	95.9	27.3	12.3	1	61.7
MAY													
14...	1045	65	--	--	9.0	760	--	--	--	--	--	--	--
JUL													
17...	1155	65	--	--	8.0	900	--	--	--	--	--	--	--
23...	1045	65	--	--	8.0	670	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	1110	81.1	--	--	--	--	--	--	--	--	--	--	--
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	1110	5.0	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	1425	5.0	--	--	7.7	715	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Sodium, percent (00932)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	--	--	--	--	--	--	--	--	--	1.28	.99	196	44.2
17...	--	--	--	--	--	--	--	--	--	1.16	.90	252	56.9
23...	--	--	--	--	--	--	--	--	--	1.31	1.02	260	58.8
AUG													
05...	--	181@c	--	--	--	--	--	--	--	.84	.66	256	57.9
19...	--	--	--	--	--	--	--	--	--	.96	.74	135	30.6
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	.14	.11	104	23.5
MAY													
11...	--	--	--	--	--	--	--	--	--	--	E.04n	98.3	22.2
14...	--	--	--	--	--	--	--	--	--	--	<.04	106	24.1
18...	--	--	--	--	--	--	--	--	--	--	E.02n	112	25.3
24...	--	--	--	--	--	--	--	--	--	--	E.02n	106	24.0
JUN													
14...	--	--	--	--	--	--	--	--	--	--	E.02n	107	24.3
JUL													
06...	--	--	--	--	--	--	--	--	--	--	E.02n	114	25.7
17...	--	--	--	--	--	--	--	--	--	--	<.04	105	23.8
23...	--	--	--	--	--	--	--	--	--	--	<.04	109	24.6
AUG													
05...	--	--	--	--	--	--	--	--	--	--	<.04	113	25.4
19...	--	--	--	--	--	--	--	--	--	--	<.04	110	24.8
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	27	165@c	.16	33.4	.5	64.0d	85.0	547	.74	.15	.12	65.6	14.8
MAY													
14...	--	--	--	--	--	--	--	--	--	.09	.07	73.3	16.6
JUL													
17...	--	319@c	--	--	--	--	--	--	--	--	<.04	81.0	18.3
23...	--	--	--	--	--	--	--	--	--	.25	.19	80.2	18.1
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	.10	.08d	160	36.2

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Total nitro-gen, wat flt by anal ysis, mg/L (62854)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA ug/L (62850)	2Chloro-2',6'-diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	44.2d	.062	.019	.101	.03oc	44.7d	--	--	<.09	<.006	1.78	<.005	<.006
17...	56.9d	.177	.054	.061	.02oc	60.6d	--	--	<.09	<.006	1.67	<.005	<.006
23...	58.9d	.500	.152	.156	.05oc	63.7d	--	--	<.09	<.006	4.21	<.005	<.006
AUG													
05...	58.2d	1.07	.326	.061	.02oc	64.3d	--	--	<.09	<.006	4.52	<.005	<.006
19...	30.7d	.503	.153	.043	.014	34.5d	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	23.6d	.141	.043	.635	.21oc	26.8d	--	--	<.09	<.006	<.02	<.005	<.006
MAY													
11...	22.2d	.059	.018	.604	.197	26.8d	--	--	<.09	<.006	<.02	<.005	<.006
14...	24.1d	.092	.028	.460	.15oc	25.5d	--	--	--	--	--	--	--
18...	25.4d	.279	.085	.530	.173	25.8d	--	--	--	--	--	--	--
24...	24.0d	.066	.020	.549	.18oc	26.4d	--	--	--	--	--	--	--
JUN													
14...	24.3d	.046	.014	.598	.20oc	23.7d	--	--	<.09	<.006	<.02	<.005	<.006
JUL													
06...	25.7d	.043	.013	.920	.30oc	22.5d	--	--	<.09	<.006	<.02	<.005	<.006
17...	23.8d	.046	.014	.595	.19oc	24.5d	--	--	<.09	<.006	<.02	<.005	<.006
23...	24.7d	.056	.017	.938	.306d	29.0d	--	--	--	--	--	--	--
AUG													
05...	25.5d	.043	.013	.662	.22oc	26.9d	--	--	<.09	<.006	<.02	<.005	<.006
19...	24.8d	.026	.008	.714	.23oc	27.0d	--	--	<.09	<.006	<.02	<.005	<.006
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	15.0d	.641	.195	.665	.22oc	16.9d	<6	682	<.09	<.006	<.02	<.005	<.006
MAY													
14...	16.6d	.095	.029	1.32	.43oc	21.2d	--	--	--	--	--	--	--
JUL													
17...	18.4d	.302	.092	.874	.28oc	22.6d	--	--	<.09	<.006	<.02	<.005	<.006
23...	18.2d	.391	.119	1.05	.341d	26.8d	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	36.2d	.053	.016	4.49	1.47doc	75.9d	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto- chlor ESA, water, fltrd 0.7u GF ug/L (61029)	Aceto- chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto- chlor SAA, water, fltrd, ug/L (62847)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor ESA SA, water, fltrd, ug/L (62849)	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala- chlor SAA, water, fltrd, ug/L (62848)	Ala- chlor, water, fltrd, ug/L (46342)	Amino- methyl- phos- phonic acid, wat flt ug/L (62649)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	<.004	<.004	<.006	.12	.07	<.02	<.006	<.02	.08	.07	<.02	<.005	<.1
17...	<.004	<.004	<.006	.15	.07	.03	<.006	.02	.08	.09	<.02	<.005	--
23...	<.004	<.004	<.006	.11	.06	<.02	<.006	<.02	<.02	.08	<.02	<.005	--
AUG													
05...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	<.02	<.02	<.02	<.005	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	.07	<.02	<.02	--u	<.1
MAY													
11...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	<.02	<.02	.02	--u	<.1
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.004	<.004	<.006	.02	<.02	<.02	<.006	<.02	.19	.02	<.02	<.005	.3
JUL													
06...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	.13	<.02	<.02	<.005	<.1
17...	<.010c	<.004	<.006	<.02	<.02	<.02	<.006	<.02	.12	.02	<.02	--u	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	.13	<.02	<.02	--u	--
19...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	.18	<.02	<.02	--u	--
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	<.02	<.02	<.02	--u	<.1
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	<.02	<.02	<.02	--u	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Atrazine, wat flt immunoassay unadj. ug/L (99775)	Atrazine, water, fltrd, ug/L (39632)	Azinphos-methyl oxon, water, fltrd, ug/L (61635)	Azinphos-methyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cyfluthrin, water, fltrd, ug/L (61585)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	--	<.007	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
17...	--	<.007	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
23...	--	<.007	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
AUG													
05...	--	<.007	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
19...	.25	--	--	--	--	--	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
MAY													
11...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	<.10	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUL													
06...	--	<.007	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
17...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
19...	--	<.007	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	<.008	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Diazinon oxon, water, fltrd, ug/L (61638)	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethenamid ESA, water, fltrd, ug/L (61951)	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethenamid water, fltrd, ug/L (61588)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	--u	--u	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
17...	--u	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
23...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
AUG													
05...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
MAY													
11...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUL													
06...	--u	--u	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
17...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
19...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	--u
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Desulfinylfipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufenacet OA, water, fltrd, ug/L (62483)	Flufenacet, water, fltrd, ug/L (62481)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Glufosinate, water, fltrd 0.7u GF ug/L (62721)	Glyphosate, water, fltrd 0.7u GF ug/L (62722)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	--u	<.1	<.1	<.013	<.387
17...	--u	<.013	--u	<.016	<.02	<.02	<.02	<.003	--u	--	--	<.013	<.387
23...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
AUG													
05...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
MAY													
11...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
JUL													
06...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	--u	<.1	<.1	<.013	<.387
17...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
19...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.029	<.013	<.024	--u	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Isofen-phos, water, fltrd, ug/L (61594)	Mala-oxon, water, fltrd, ug/L (61652)	Mala-thion, water, fltrd, ug/L (39532)	Meta-laxyl, water, fltrd, ug/L (61596)	Methi-althion water, fltrd, ug/L (61598)	Methyl para-oxon, water, fltrd, ug/L (61664)	Methyl para-thion, water, fltrd 0.7u GF ug/L (82667)	Metola-chlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metola-chlor OA, water, fltrd 0.7u GF ug/L (61044)	Metola-chlor, water, fltrd 0.7u GF ELISA, ug/L (82694)	Metola-chlor, water, fltrd, ug/L (39415)	Metri-buzin, water, fltrd, ug/L (82630)	Myclo-butanil water, fltrd, ug/L (61599)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	<.003	<.030	<.027	<.005	<.006	--u	<.015	6.26	9.13	--	.377	<.006	<.008
17...	<.003	<.030	<.150	<.005	<.006	<.03	<.015	5.33	9.44	--	.351	<.006	<.008
23...	<.003	<.030	<.027	<.005	<.006	<.03	<.015	9.80	13.0	--	.350	<.006	<.008
AUG													
05...	<.003	<.030	<.027	<.005	<.006	<.03	<.015	5.57	8.79	--	.350	<.006	<.008
19...	--	--	--	--	--	--	--	--	--	.31	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	.22	.33	--	<.550	--u	<.008
MAY													
11...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	1.17	1.05	--	.994	--u	<.008
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	1.2	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	1.28	1.19	--	1.14	<.006	<.008
JUL													
06...	<.003	<.030	<.027	<.005	<.006	--u	<.015	.98	1.03	--	<.013	<.006	<.008
17...	<.003	--u	<.027	<.005	<.006	<.03	<.015	.68	.81	--	1.01	<.006	<.008
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	<.003	--u	<.027	<.005	<.006	<.03	<.015	1.11	.74	--	.897	<.006	<.008
19...	<.003	<.030	<.027	<.150	<.006	<.03	<.015	1.54	.84	--	1.69	--u	<.008
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.003	--u	<.027	<.005	<.006	<.03	<.015	.18	.28	--	<.035	--u	<.008
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	<.003	--u	<.027	<.005	<.006	<.03	<.015	.04	.09	--	<.013	<.006	<.008
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propachlor OA, water, fltrd 0.7u GF ug/L (62767)	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbufos oxon sulfone water, fltrd, ug/L (61674)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07
17...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07
23...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07
AUG													
05...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.022	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07
MAY													
11...	<.022	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.022	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07
JUL													
06...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07
17...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07
19...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.022	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Terbu-fos, water, fltrd 0.7u GF ug/L (82675)	Ter-buthyl-azine, water, fltrd, ug/L (04022)	Tri-flur-alin, water, fltrd 0.7u GF ug/L (82661)	1-Naph-thol, solids, ug/kg (63240)	2,6-Di-ethyl-aniline solids, ug/kg (63243)	2Chloro-2',6'-diethyl acet-anilide solids, ug/kg (63246)	2-Ethyl-6-methyl-aniline solids, ug/kg (63247)	3,4-Di-chloro-aniline solids, ug/kg (63248)	4-Chloro-2-methyl-phenol, solids, ug/kg (63255)	Aceto-chlor, solids, ug/kg (63257)	Ala-chlor, solids, ug/kg (63258)	alpha-HCH-d6, surrog, solids, pct rcv (90739)	Atra-zine, solids, ug/kg (63262)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	--u	--u	<.009	--	--	--	--	--	--	--	--	--	--
17...	--u	--u	<.009	--	--	--	--	--	--	--	--	--	--
23...	<.02	<.01	<.009	--	--	--	--	--	--	--	--	--	--
AUG													
05...	<.02	--u	<.009	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	<10mc	<30mc	<1	<30mc	<75mc	<10mc	<1	<1	51.8	<1
15...	<.02	<.01	E.011	--	--	--	--	--	--	--	--	--	--
MAY													
11...	<.02	--u	E.038	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.02	<.01	<.009	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--u	--u	<.009	--	--	--	--	--	--	--	--	--	--
17...	<.02	--u	<.009	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	<.02	--u	<.009	--	--	--	--	--	--	--	--	--	--
19...	<.02	<.01	<.009	--	--	--	--	--	--	--	--	--	--
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	--	--	--	<10mc	<30mc	<1	<30mc	<75mc	<10mc	<1	<1	56.9	<1
15...	<.02	<.01	<.015	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	<.02	--u	<.009	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	--	--	--	<10mc	<30mc	<1	<30mc	<75mc	<10mc	<1	<1	73.7	<1
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	<10mc	<30mc	<1	<30mc	<75mc	<10mc	<1	<1	82.3	<1
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Azinphosmethyloxon, solids, ug/kg (63264)	Azinphosmethyl, solids, ug/kg (63263)	Benfluralin, solids, ug/kg (63265)	Carbaryl, solids, ug/kg (63269)	Chlorpyrifos oxon, solids, ug/kg (63274)	Chlorpyrifos solids, ug/kg (63273)	cis-Permethrin, solids, ug/kg (63365)	Cyfluthrin, solids, ug/kg (63279)	Cypermethrin solids, ug/kg (63281)	DCPA, solids, ug/kg (63282)	CIAT, solids, ug/kg (63283)	Desulfinylfipronil amide, solids, ug/kg (63317)	Desulfinylfipronil, solids, ug/kg (63316)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	<30mc	<5mc	<1	<2mc	<30mc	<1	<5	<20mc	<20mc	<1	<2	<1mc	<1
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	<30mc	<5mc	<1	<2mc	<30mc	<1	<5	<20mc	<20mc	<1	<2	<1mc	<1
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	<30mc	<5mc	<1	<2mc	<30mc	<1	<5	<20mc	<20mc	<1	<2	<1mc	<1
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	<30mc	<5mc	<1	<2mc	<30mc	<1	<5	<20mc	<20mc	<1	<2	<1mc	<1
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Diaz-inon, solids, ug/kg (63284)	Diazi-non-d10 surrog, solids, pct rcv (90740)	Diaz-oxon, solids, ug/kg (63285)	Dichlor vos, solids, ug/kg (63286)	Di-croto-phos, solids, ug/kg (63288)	Diel-drin, solids, ug/kg (63289)	Dimeth-oate, solids, ug/kg (63291)	Ethion monoxon solids, ug/kg (63303)	Ethion, solids, ug/kg (63302)	Fenam-iphos sulfone solids, ug/kg (63306)	Fenam-iphos sulfox-ide, solids, ug/kg (63307)	Fenam-iphos, solids, ug/kg (63305)	Fipro-nil sulfide solids, ug/kg (63314)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	<1	96.5	<5mc	<30mc	<3mc	<2	<2	<2	<2	<10mc	<10mc	<30mc	<1
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	<1	97.9	<5mc	<30mc	<3mc	<2	<2	<2	<2	<10mc	<10mc	<30mc	<1
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	<1	104	<5mc	<30mc	<3mc	<2	<2	<2	<2	<10mc	<10mc	<30mc	<1
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	<1	121	<5mc	<30mc	<3mc	<2	<2	<2	<2	<10mc	<10mc	<30mc	<1
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Fipronil sulfone solids, ug/kg (63315)	Fipronil, solids, ug/kg (63313)	Fonofos oxon, solids, ug/kg (63320)	Fonofos solids, ug/kg (63319)	Hexazinone, solids, ug/kg (63321)	Iprodione, solids, ug/kg (63322)	Isofenphos, solids, ug/kg (63323)	Malaoxon, solids, ug/kg (63326)	Malathion, solids, ug/kg (63327)	Metalaxyl, solids, ug/kg (63328)	Methidathion, solids, ug/kg (63329)	Metolachlor, solids, ug/kg (63332)	Metribuzin, solids, ug/kg (63333)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	<1	<1mc	<5mc	<1	<1	<10mc	<2	<5mc	<2	<1	<2	<1	<4mc
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	<1	<1mc	<5mc	<1	<1	<10mc	<2	<5mc	<2	<1	<2	<1	<4mc
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	<1	<1mc	<5mc	<1	<1	<10mc	<2	<5mc	<2	<1	<2	<1	<4mc
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	<1	<1mc	<5mc	<1	<1	<10mc	<2	<5mc	<2	<1	<2	<1	<4mc
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Myclo-butanil solids, ug/kg (63335)	Para-oxon-methyl, solids, ug/kg (63349)	Methyl para-thion, solids, ug/kg (63351)	Pendi-meth-alin, solids, ug/kg (63353)	Phorate oxon, solids, ug/kg (63355)	Phorate solids, ug/kg (63354)	Phosmet oxon, solids, ug/kg (63357)	Phosmet solids, ug/kg (63356)	Prome-ton, solids, ug/kg (63359)	Pro-metryn, solids, ug/kg (63360)	Propyz-amide, solids, ug/kg (63369)	Sima-zine, solids, ug/kg (63370)	Fenam-iphos + sulfox-ide + sulfone solids, ug/kg (63308)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
JUL 2004													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	<1mc	<5mc	<2mc	<1	<7mc	<5mc	<10mc	<30mc	<2mc	<2	<2	<2	<50mc
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)													
APR 2004													
05...	<1mc	<5mc	<2mc	<1	<7mc	<5mc	<10mc	<30mc	<2mc	<2	<2	<2	<50mc
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)													
MAR 2004													
01...	<1mc	<5mc	<2mc	<1	<7mc	<5mc	<10mc	<30mc	<2mc	<2	<2	<2	<50mc
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	<1mc	<5mc	<2mc	<1	<7mc	<5mc	<10mc	<30mc	<2mc	<2	<2	<2	<50mc
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Tebu-thiuron solids, ug/kg (63376)	Terbu-fos, solids, ug/kg (63380)	Ter-bufos onon sulfone solids, ug/kg (63383)	Ter-buthyl azine, solids, ug/kg (63384)	trans-Perme-thrin, solids, ug/kg (63366)	Triflur alin, solids, ug/kg (63390)	Di-chlor-vos, water fltrd, ug/L (38775)
413334096325330 VADOSE ZONE ACT1-2A NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)							
JUL 2004							
06...	--	--	--	--	--	--	<.01
17...	--	--	--	--	--	--	<.01
23...	--	--	--	--	--	--	<.01
AUG							
05...	--	--	--	--	--	--	<.01
19...	--	--	--	--	--	--	--
413334096325331 VADOSE ZONE ACT1-2B NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)							
APR 2004							
05...	<3mc	<3mc	<5mc	<1	<5	<1	--
15...	--	--	--	--	--	--	<.01
MAY							
11...	--	--	--	--	--	--	<.01
14...	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--
JUN							
14...	--	--	--	--	--	--	<.01
JUL							
06...	--	--	--	--	--	--	<.01
17...	--	--	--	--	--	--	<.01
23...	--	--	--	--	--	--	--
AUG							
05...	--	--	--	--	--	--	<.01
19...	--	--	--	--	--	--	<.01
413334096325332 VADOSE ZONE ACT1-2C NEAR NICKERSON, NE (LAT 41 33 34N LONG 096 32 53W)							
APR 2004							
05...	<3mc	<3mc	<5mc	<1	<5	<1	--
15...	--	--	--	--	--	--	<.01
MAY							
14...	--	--	--	--	--	--	--
JUL							
17...	--	--	--	--	--	--	<.01
23...	--	--	--	--	--	--	--
413341096325501 18N 8W 5ACDC1 NAWQA WELL ACTFS1-2A (LAT 41 33 41N LONG 096 32 54W)							
MAR 2004							
01...	<3mc	<3mc	<5mc	<1	<5	<1	--
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)							
MAR 2004							
01...	<3mc	<3mc	<5mc	<1	<5	<1	--
MAY							
11...	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Time	Depth of well, feet below LSD (72008)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	SUVA, 254 nm, abs units/ mgC/L /meter (63162)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Hard-ness, water, mg/L as CaCO3 (00900)	Noncarb hard-ness, wat flt lab, mg/L as CaCO3 (00905)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	1020	5.0	--	--	8.4	630	--	--	--	--	--	--	--
18...	1550	5.0	--	--	7.6	720	--	--	--	--	--	--	--
24...	1220	5.0	--	--	7.9	630	--	--	--	--	--	--	--
JUN													
14...	1200	5.0	--	--	7.1	660	--	--	--	--	--	--	--
JUL													
06...	1255	5.0	--	--	7.0	640	220	91	60.0	17.9	2.26	.7	23.1
17...	1130	5.0	--	--	7.4	688	--	--	--	--	--	--	--
23...	1020	5.0	--	--	7.7	600	--	--	--	--	--	--	--
AUG													
05...	1225	5.0	--	--	8.0	397	--	--	--	--	--	--	--
19...	1155	5.0	--	--	8.0	304	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	1110	28.0	--	--	--	--	--	--	--	--	--	--	--
30...	1200	28.0	--	--	7.8	578	340	--	80.7	34.8	9.96	.6	25.1
MAY													
11...	1430	28.0	--u	--u	7.5	520	250	--	60.5	23.3	9.12	.3	11.2
14...	1015	28.0	--u	--u	7.6	410	160	57	40.5	13.1	19.9	.2	4.83
18...	1555	28.0	--u	--u	7.1	570	210	55	57.6	16.8	22.9	.2	6.50
24...	1225	28.0	--u	--u	6.9	370	130	36	37.0	8.45	18.6	.1	3.34
JUN													
14...	1205	28.0	--	--	7.8	780	280	150	80.3	19.9	21.4	.1	5.72
JUL													
06...	1300	28.0	--	--	7.3	780	--	--	--	--	--	--	--
17...	1135	28.0	--	--	7.4	750	--	--	--	--	--	--	--
23...	1025	28.0	--	--	7.1	500	--	--	--	--	--	--	--
AUG													
05...	1220	28.0	--	--	8.4	713	--	--	--	--	--	--	--
19...	1150	28.0	--	--	7.6	306	--	--	--	--	--	--	--
SEP													
22...	1545	28.0	--	--	--	--	270	40	74.9	19.9	18.9	.3	10.1
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	1110	65.0	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	1140	65.0	--	--	7.9	683	--	--	--	--	--	--	--
23...	1030	65.0	--	--	8.2	550	--	--	--	--	--	--	--
SEP													
22...	1543	65.0	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Sodium, percent (00932)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	.26	.20	172	38.9
18...	--	--	--	--	--	--	--	--	--	--	E.03n	182	41.1
24...	--	--	--	--	--	--	--	--	--	.06	.05	166	37.5
JUN													
14...	--	118@c	--	--	--	--	--	--	--	1.37	1.07	174	39.4
JUL													
06...	18	133@c	.27	22.2	<.2	39.7	39.2	429	.58	1.80	1.40	142	32.0
17...	--	--	--	--	--	--	--	--	--	2.56	1.99d	134	30.4
23...	--	--	--	--	--	--	--	--	--	3.67	2.85d	141	31.9
AUG													
05...	--	--	--	--	--	--	--	--	--	1.32	1.03	181	40.9
19...	--	--	--	--	--	--	--	--	--	2.41	1.87d	190	43.0
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	13	--	<.32d	7.06d	.3	60.2d	58.9d	--	--	.09	.07	--	--
MAY													
11...	9	257@c	<.03	1.91	.3	51.8	18.7	352	.48	.07	.05	20.3	4.58
14...	6	98@c	.07i	1.14	.2	30.5	7.5	299	.41	3.73	2.90d	117	26.4
18...	6	158@c	.03i	1.33	<.2	40.6	8.4	384	.52	5.01	3.89d	129	29.2
24...	5	91@c	<.02	1.00	<.2	22.0	4.3	238	.32	2.78	2.16d	83.2	18.8
JUN													
14...	4	137@c	.51d	1.08	<.2	39.6	13.2	510	.69	.33	.26	245	55.3
JUL													
06...	--	146@c	--	--	--	--	--	--	--	1.11	.86	267	60.3
17...	--	134@c	--	--	--	--	--	--	--	.74	.58	220	49.6
23...	--	131@c	--	--	--	--	--	--	--	1.23	.95	204	46.1
AUG													
05...	--	--	--	--	--	--	--	--	--	2.06	1.60d	62.7	14.2
19...	--	--	--	--	--	--	--	--	--	.72	.56	105	23.7
SEP													
22...	7	229@c	.09	--o	<.2	43.1	--o	--	--	1.96	1.52d	90.2	20.4
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	--	--	--	--	--	--	--	--	--	1.19	.92	42.6	9.63
23...	--	--	--	--	--	--	--	--	--	1.16	.90	46.7	10.5
SEP													
22...	--	304@c	--	--	--	--	--	--	--	1.74	1.35	69.2	15.6

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Total nitro-gen, wat flt by anal ysis, mg/L (62854)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA ug/L (62850)	2Chloro-2',6'-diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	39.0d	.062	.019	.929	.30oc	63.4d	--	--	--	--	--	--	--
18...	41.1d	.131	.040	.724	.236d	48.9d	--	--	--	--	--	--	--
24...	37.5d	.187	.057	.702	.23oc	47.9d	--	--	--	--	--	--	--
JUN													
14...	39.7d	1.03	.314	.754	.25oc	50.1d	--	--	<.09	<.006	.14	<.005	<.006
JUL													
06...	32.2d	.703	.214	.681	.22oc	37.7d	E5n	35.9	<.09	<.006	--	<.005	<.006
17...	30.5d	.348	.106	.343	.11oc	48.0d	--	--	<.09	<.006	--	<.005	<.006
23...	32.2d	.891	.271	.126	.04oc	48.7d	--	--	--	--	--	--	--
AUG													
05...	42.3d	4.62	1.41d	.196	.06oc	59.7d	--	--	--	--	--	--	--
19...	43.5d	1.54	.468	.083	.03oc	74.2d	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	11.9d	--	E.007n	3.22	1.05doc	38.8d	<6	39.8	<.09	<.006	<.02	<.005	<.006
MAY													
11...	4.61	.079	.024	.932	.30oc	10.0d	<6	11.4	<.09	<.006	.14	<.005	E.068
14...	26.6d	.789	.240	.733	.24oc	32.3d	9	7.3	<.09	<.006	.27	<.005	E5.69
18...	29.4d	.516	.157	.794	.26oc	36.8d	E6n	14.5	<.09	<.006	.21	<.005	E7.75
24...	19.1d	.881	.268	1.07	.35oc	26.8d	13	9.3	<.09	<.006	.17	<.005	E8.26
JUN													
14...	55.3d	.085	.026	1.44	.47oc	66.6d	28	4.8	<.09	<.006	.24	<.005	E7.00
JUL													
06...	60.5d	.559	.170	1.22	.40oc	62.9d	--	--	<.09	<.006	.28	<.005	E6.72
17...	49.6d	.135	.041	.954	.31oc	63.0d	--	--	<.09	<.006	.15	<.005	E8.82
23...	46.2d	.368	.112	.598	.20oc	52.2d	--	--	<.09	<.006	.33	<.005	E3.31
AUG													
05...	14.5d	1.02	.311	1.27	.41oc	36.5d	--	--	<.09	<.006	1.30	<.005	E.978
19...	23.9d	.753	.229	.855	.28oc	28.5d	--	--	<.40	<.006	.30	<.005	E33.6
SEP													
22...	20.6d	.546	.166	1.07	.35oc	27.6d	E4n	.9	<.09	<.006	.19	<.005	E1.73
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	9.84d	.697	.212	3.52	1.15doc	41.5d	--	--	<.09	<.006	.08	<.005	E1.19
23...	10.8d	.697	.212	1.80	.588d	27.9d	--	--	--	--	--	--	--
SEP													
22...	15.7d	.200	.061	1.06	.34oc	37.0d	--	--	<.09	<.006	1.07	<.005	E1.18

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto- chlor ESA, water, fltrd 0.7u GF ug/L (61029)	Aceto- chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto- chlor SAA, water, fltrd, ug/L (62847)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor ESA SA, water, fltrd, ug/L (62849)	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala- chlor SAA, water, fltrd, ug/L (62848)	Ala- chlor, water, fltrd, ug/L (46342)	Amino- methyl- phos- phonic acid, wat flt ug/L (62649)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.039	<.004	<.006	.07	.02	<.02	<.006	<.02	.09	.07	<.02	<.005	.3
JUL													
06...	<.004	<.004	<.006	--	--	--	<.006	--	--	--	--	<.005	<.1
17...	<.020c	<.004	<.006	--	--	--	<.006	--	--	--	--	--u	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	<.02	<.02	<.02	--u	<.1
MAY													
11...	<.004	<.004	<.006	.03	.04	<.02	.148	<.02	<.02	.02	.02	<.020	<.1
14...	<.004	<.004	<.006	.26	.41	.22	E.643	<.02	.04	.05	.17	E.058	.2
18...	<.004	<.004	<.006	.24	.36	.35	.608	<.02	.02	.04	.13	<.091c	.1
24...	<.004	<.004	<.006	.16	.23	.21	.327	<.02	.04	.04	.12	.133	.1
JUN													
14...	<.004	<.004	<.006	.33	.48	.05	.170	<.02	.07	<.02	<.02	.116	.2
JUL													
06...	<.004	<.004	<.006	<.02	.36	<.02	.104	<.02	<.02	<.02	<.02	<.005	.2
17...	<.004	<.004	<.006	.21	.36	.18	.148	<.02	.03	.11	.02	<.005	--
23...	<.004	<.004	<.006	.11	.26	<.02	.122	<.02	<.02	.09	<.02	<.005	--
AUG													
05...	<.004	<.004	<.006	.04	.06	<.02	<.006	<.02	<.02	<.02	<.02	<.005	--
19...	<.004	<.004	<.006	.08	.13	.07	.860	<.02	<.02	<.02	<.02	<.005	<.1
SEP													
22...	<.004	<.004	<.006	<.02	.18	<.02	<.070c	<.02	<.02	<.02	<.02	--u	--
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	<.004	<.004	<.006	.06	.05	.04	.059	<.02	.02	.03	<.02	<.005	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	.11	<.02	<.02	--u	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Atrazine, wat flt immunoassay unadj. ug/L (99775)	Atrazine, water, fltrd, ug/L (39632)	Azinphos-methyl oxon, water, fltrd, ug/L (61635)	Azinphos-methyl, water, fltrd 0.7u GF ug/L (82686)	Benflralin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cyfluthrin, water, fltrd, ug/L (61585)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	.05	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	.073	<.012
JUL													
06...	--	<.007	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
17...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
MAY													
11...	--	.344	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
14...	--	E673	<.02	<.050	<.010	<.041	--u	<.005	<.006	<.008	<.009	<.003	<.012
18...	--	E745c	<.03c	<.050	<.010	<.041	--u	<.005	<.006	<.008	<.009	<.003	<.012
24...	--	139	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUN													
14...	--	11.4	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUL													
06...	--	2.46	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
17...	--	3.28	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
23...	--	1.52	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
AUG													
05...	--	41.3	<.07	<.050	<.010	<.041	<.06	.142	<.006	<.008	<.009	<.003	<.012
19...	--	11.4	<.07	<.050	<.010	<.041	<2.00	<.005	<.006	<.008	<.009	<.200	<.012
SEP													
22...	--	.620	<.07	<.050	<.010	--u	<.18c	<.005	<.006	<.008	<.009	<.003	<.012
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	--	72.0	<.07	<.050	<.010	<.041	<.06	.214	<.006	<.008	<.009	<.003	<.012
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	13.4	<.07	<.050	<.010	--u	<.06	.112	<.006	<.008	<.009	<.003	<.012

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Diazinon oxon, water, fltrd, ug/L (61638)	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethenamid ESA, water, fltrd, ug/L (61951)	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethenamid water, fltrd, ug/L (61588)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUL													
06...	--u	--u	<.08	<.009	--	--	--	<.006	<.0020	<.004	<.049	<.04	<.03
17...	<.01	<.005	<.08	<.009	--	--	--	<.006	<.0020	<.004	<.049	<.04	<.03
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
MAY													
11...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
14...	<.01	<.005	<.08	<.009	.04	<.02	.13	<.006	<.03	<.004	<.008	--u	<.03
18...	<.01	<.005	<.08	<.009	.04	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
24...	--u	<.005	<.08	<.009	.03	<.02	.08	<.006	<.03	<.004	<.008	<.03	<.03
JUN													
14...	<.01	<.005	<.08	<.009	<.02	.06	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUL													
06...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
17...	<.01	<.005	<.08	<.009	.02	.06	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
23...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
AUG													
05...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
19...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
SEP													
22...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	--u	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Desulfinylfipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufenacet OA, water, fltrd, ug/L (62483)	Flufenacet, water, fltrd, ug/L (62481)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Glufosinate, water, fltrd 0.7u GF ug/L (62721)	Glyphosate, water, fltrd 0.7u GF ug/L (62722)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
JUL													
06...	<.029	<.013	<.024	<.016	--	--	--	<.003	--u	<.1	<.1	<.013	<.387
17...	<.029	<.013	<.024	<.016	--	--	--	<.003	<.003	--	--	<.013	<.387
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
MAY													
11...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
18...	<.029	<.013	<.024	<.016	<.02	<.02	.02	<.002	<.003	<.1	<.1	<.013	<1
24...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	--u	<.1	<.1	<.013	<1
JUN													
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
JUL													
06...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	<.1	<.1	<.013	<.387
17...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
23...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
AUG													
05...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
19...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	<.1	<.1	<.013	<.387
SEP													
22...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	--u	<.013	--u	<.016	<.02	<.02	<.02	<.003	--u	--	--	<.013	<.387
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Isofen-phos, water, fltrd, ug/L (61594)	Mala-oxon, water, fltrd, ug/L (61652)	Mala-thion, water, fltrd, ug/L (39532)	Meta-laxyl, water, fltrd, ug/L (61596)	Methi-althion water, fltrd, ug/L (61598)	Methyl para-oxon, water, fltrd, ug/L (61664)	Methyl para-thion, water, fltrd 0.7u GF ug/L (82667)	Metola-chlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metola-chlor OA, water, fltrd 0.7u GF ug/L (61044)	Metola-chlor, water, fltrd 0.7u GF ELISA, ug/L (82694)	Metola-chlor, water, fltrd, ug/L (39415)	Metri-buzin, water, fltrd, ug/L (82630)	Myclo-butanil water, fltrd, ug/L (61599)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	.94	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	3.83	4.30	--	.489	<.006	<.008
JUL													
06...	<.003	<.030	<.027	<.005	<.006	--u	<.015	--	--	--	.485	<.006	<.008
17...	<.003	--u	<.027	<.005	<.006	<.03	<.015	--	--	--	.438	<.006	<.008
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	.12	.29	--	.288	--u	<.008
MAY													
11...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	2.17	3.19	--	1.65	--u	<.008
14...	<.003	<.008	<.027	E.039	<.006	<.03	<.015	8.45	14.0	--	E210	--u	<.008
18...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	13.0	19.0	--	82.1	<.006	<.008
24...	<.003	<.008	<.730	<.005	<.006	<.03	<.015	8.36	17.0	--	84.7	<.006	<.008
JUN													
14...	<.003	<.008	<.360	<.005	<.006	<.03	<.015	12.0	29.0	--	20.1	<.006	<.008
JUL													
06...	<.003	<.030	<.027	<.005	<.006	<.03	<.015	7.28	27.0	--	E27.3	<.006	<.008
17...	<.003	<.030	<.250c	<.005	<.006	<.03	<.015	13.0	29.0	--	33.8	<.006	<.008
23...	<.003	<.030	<.370	<.005	<.006	<.03	<.015	15.0	29.0	--	29.5	<.006	<.008
AUG													
05...	<.003	<.030	<.027	<.005	<.006	<.03	<.015	7.44	7.16	--	4.38	<.006	<.008
19...	<.003	<.030	<.027	<.500	<.006	<.03	<.015	3.97	18.0	--	421	<.006	<.008
SEP													
22...	<.003	--u	<.027	<.005	<.006	<.03	<.015	5.42	12.9	--	20.7	--u	<.008
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	<.003	<.030	<.100	<.005	<.006	<.03	<.015	12.0	12.0	--	5.74	<.006	<.008
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	<.003	<.030	<.027	<.005	<.006	<.03	<.015	8.34	8.29	--	3.37	--u	<.008

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propachlor OA, water, fltrd 0.7u GF ug/L (62767)	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbufos oxon sulfone water, fltrd, ug/L (61674)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.022	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07
JUL													
06...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	--	--	<.005	<.02	<.07
17...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	--	--	<.005	<.02	<.07
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.022	<.10	<.011	--u	--u	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07
MAY													
11...	<.022	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07
14...	<.022	<.10	<.011	--u	<.008	<.01	<.005	--u	<.05	<.02	--u	<.02	<.07
18...	<.022	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	--u	<.02	<.07
24...	<.022	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	.450	<.02	<.07
JUN													
14...	<.022	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	.157	<.02	<.07
JUL													
06...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.05	<.02	.064	<.02	<.07
17...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.080c	<.02	<.07
23...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<3.50	<.05	<.02	.081	<.02	<.07
AUG													
05...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	.083	<.02	<.07
19...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.250	<.02	<.07
SEP													
22...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.060	<.02	<.07
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
17...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	.186	<.02	<.07
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	<.022	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.090c	<.02	<.07

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Terbu-fos, water, fltrd 0.7u GF ug/L (82675)	Ter-buthyl-azine, water, fltrd, ug/L (04022)	Tri-flur-alin, water, fltrd 0.7u GF ug/L (82661)	1-Naph-thol, solids, ug/kg (63240)	2,6-Di-ethyl-aniline solids, ug/kg (63243)	2Chloro-2',6'-diethyl acet-anilide solids, ug/kg (63246)	2-Ethyl-6-methyl-aniline solids, ug/kg (63247)	3,4-Di-chloro-aniline solids, ug/kg (63248)	4-Chloro-2-methyl-phenol, solids, ug/kg (63255)	Aceto-chlor, solids, ug/kg (63257)	Ala-chlor, solids, ug/kg (63258)	alpha-HCH-d6, surrog, solids, pct rcv (90739)	Atra-zine, solids, ug/kg (63262)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.02	<.01	<.009	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--u	--u	<.009	--	--	--	--	--	--	--	--	--	--
17...	<.02	--u	<.009	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	<10mc	<30mc	<1	<30mc	<75mc	<10mc	<1	<1	61.5	<1
30...	<.02	<.01	<.009	--	--	--	--	--	--	--	--	--	--
MAY													
11...	<.02	--u	<.009	--	--	--	--	--	--	--	--	--	--
14...	<.02	<.01	<.046	--	--	--	--	--	--	--	--	--	--
18...	<.02	--u	<.009	--	--	--	--	--	--	--	--	--	--
24...	--u	--u	.014	--	--	--	--	--	--	--	--	--	--
JUN													
14...	<.02	<.01	.012	--	--	--	--	--	--	--	--	--	--
JUL													
06...	<.02	<.01	.019	--	--	--	--	--	--	--	--	--	--
17...	<.02	--u	<.009	--	--	--	--	--	--	--	--	--	--
23...	<.02	<.01	<.009	--	--	--	--	--	--	--	--	--	--
AUG													
05...	<.02	--u	<.009	--	--	--	--	--	--	--	--	--	--
19...	<.02	<.01	<.500	--	--	--	--	--	--	--	--	--	--
SEP													
22...	<.02	--u	<.100c	--	--	--	--	--	--	--	--	--	--
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	--	--	--	<10mc	<30mc	<1	<30mc	<75mc	<10mc	<1	<1	68.6	<1
JUL													
17...	--u	--u	<.009	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	<.02	--u	<.009	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Azinphos-methyl-oxon, solids, ug/kg (63264)	Azinphos-methyl, solids, ug/kg (63263)	Benfluralin, solids, ug/kg (63265)	Carbaryl, solids, ug/kg (63269)	Chlorpyrifos oxon, solids, ug/kg (63274)	Chlorpyrifos solids, ug/kg (63273)	cis-Permethrin, solids, ug/kg (63365)	Cyfluthrin, solids, ug/kg (63279)	Cypermethrin solids, ug/kg (63281)	DCPA, solids, ug/kg (63282)	CIAT, solids, ug/kg (63283)	Desulfinylfipronil amide, solids, ug/kg (63317)	Desulfinylfipronil, solids, ug/kg (63316)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	<30mc	<5mc	<1	<2mc	<30mc	<1	<5	<20mc	<20mc	<1	<2	<1mc	<1
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	<30mc	<5mc	<1	<2mc	<30mc	<1	<5	<20mc	<20mc	<1	<2	<1mc	<1
JUL													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Diaz-inon, solids, ug/kg (63284)	Diazi-non-d10 surrog, solids, pct rcv (90740)	Diaz-oxon, solids, ug/kg (63285)	Dichlor vos, solids, ug/kg (63286)	Di-croto-phos, solids, ug/kg (63288)	Diel-drin, solids, ug/kg (63289)	Dimeth-oate, solids, ug/kg (63291)	Ethion monoxon solids, ug/kg (63303)	Ethion, solids, ug/kg (63302)	Fenam-iphos sulfone solids, ug/kg (63306)	Fenam-iphos sulfox-ide, solids, ug/kg (63307)	Fenam-iphos, solids, ug/kg (63305)	Fipro-nil sulfide solids, ug/kg (63314)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	<1	99.0	<5mc	<30mc	<3mc	<2	<2	<2	<2	<10mc	<10mc	<30mc	<1
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	<1	95.8	<5mc	<30mc	<3mc	<2	<2	<2	<2	<10mc	<10mc	<30mc	<1
JUL													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Fipronil sulfone solids, ug/kg (63315)	Fipronil, solids, ug/kg (63313)	Fonofos oxon, solids, ug/kg (63320)	Fonofos solids, ug/kg (63319)	Hexazinone, solids, ug/kg (63321)	Iprodione, solids, ug/kg (63322)	Isofenphos, solids, ug/kg (63323)	Malaoxon, solids, ug/kg (63326)	Malathion, solids, ug/kg (63327)	Metalaxyl, solids, ug/kg (63328)	Methidathion, solids, ug/kg (63329)	Metolachlor, solids, ug/kg (63332)	Metribuzin, solids, ug/kg (63333)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	<1	<1mc	<5mc	<1	<1	<10mc	<2	<5mc	<2	<1	<2	<1	<4mc
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	<1	<1mc	<5mc	<1	<1	<10mc	<2	<5mc	<2	<1	<2	<1	<4mc
JUL													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Myclo-butanil solids, ug/kg (63335)	Para-oxon-methyl, solids, ug/kg (63349)	Methyl para-thion, solids, ug/kg (63351)	Pendi-meth-alin, solids, ug/kg (63353)	Phorate oxon, solids, ug/kg (63355)	Phorate solids, ug/kg (63354)	Phosmet oxon, solids, ug/kg (63357)	Phosmet solids, ug/kg (63356)	Prome-ton, solids, ug/kg (63359)	Pro-metryn, solids, ug/kg (63360)	Propyz-amide, solids, ug/kg (63369)	Sima-zine, solids, ug/kg (63370)	Fenam-iphos + sulfox-ide + sulfone solids, ug/kg (63308)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAY 2004													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	<1mc	<5mc	<2mc	<1	<7mc	<5mc	<10mc	<30mc	<2mc	<2	<2	<2	<50mc
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)													
MAR 2004													
01...	<1mc	<5mc	<2mc	<1	<7mc	<5mc	<10mc	<30mc	<2mc	<2	<2	<2	<50mc
JUL													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Tebu-thiuron solids, ug/kg (63376)	Terbu-fos, solids, ug/kg (63380)	Ter-bufos onon sulfone solids, ug/kg (63383)	Ter-buthyl azine, solids, ug/kg (63384)	trans-Perme-thrin, solids, ug/kg (63366)	Triflur alin, solids, ug/kg (63390)	Di-chlor-vos, water fltrd, ug/L (38775)
413341096325530 VADOSE ZONE ACTVZ1-3A NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)							
MAY 2004							
14...	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--
JUN							
14...	--	--	--	--	--	--	<.01
JUL							
06...	--	--	--	--	--	--	<.01
17...	--	--	--	--	--	--	<.01
23...	--	--	--	--	--	--	--
AUG							
05...	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--
413341096325531 VADOSE ZONE ACTVZ1-3B NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)							
MAR 2004							
01...	<3mc	<3mc	<5mc	<1	<5	<1	--
30...	--	--	--	--	--	--	<.01
MAY							
11...	--	--	--	--	--	--	<.01
14...	--	--	--	--	--	--	<.01
18...	--	--	--	--	--	--	<.01
24...	--	--	--	--	--	--	<.01
JUN							
14...	--	--	--	--	--	--	<.01
JUL							
06...	--	--	--	--	--	--	<.01
17...	--	--	--	--	--	--	<.01
23...	--	--	--	--	--	--	<.01
AUG							
05...	--	--	--	--	--	--	<.01
19...	--	--	--	--	--	--	<.01
SEP							
22...	--	--	--	--	--	--	<.01
413341096325532 VADOSE ZONE ACTVZ1-3C NEAR NICKERSON, NE (LAT 41 33 41N LONG 096 32 55W)							
MAR 2004							
01...	<3mc	<3mc	<5mc	<1	<5	<1	--
JUL							
17...	--	--	--	--	--	--	<.01
23...	--	--	--	--	--	--	--
SEP							
22...	--	--	--	--	--	--	<.01

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Time	Depth of well, feet below LSD (72008)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	SUVA, 254 nm, abs units/ mgC/L /meter (63162)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Hard-ness, water, mg/L as CaCO3 (00900)	Noncarb hard-ness, wat flt lab, mg/L as CaCO3 (00905)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	0810	5.0	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	1345	5.0	--	--	6.7	360	--	--	--	--	--	--	--
24...	1250	5.0	--	--	7.3	430	--	--	--	--	--	--	--
JUN													
14...	1120	5.0	--	--	7.2	380	--	--	--	--	--	--	--
JUL													
06...	1220	5.0	--	--	7.7	360	--	--	--	--	--	--	--
23...	1100	5.0	--	--	7.3	320	--	--	--	--	--	--	--
AUG													
05...	1240	5.0	--	--	8.0	270	--	--	--	--	--	--	--
19...	1400	5.0	--	--	7.7	276	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	1255	7.0	--	--	7.3	860	--	--	--	--	--	--	--
JUN													
14...	1125	7.0	--	--	8.2	1190	--	--	--	--	--	--	--
JUL													
06...	1225	7.0	--	--	8.0	1180	--	--	--	--	--	--	--
23...	1105	7.0	--	--	7.3	1160	--	--	--	--	--	--	--
AUG													
05...	1235	7.0	--	--	7.9	1000	--	--	--	--	--	--	--
19...	1405	7.0	--	--	7.5	305	--	--	--	--	--	--	--
SEP													
22...	1614	7.0	--	--	--	--	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	0815	12.0	--u	--u	--	--	160	--	46.2	11.7	5.31	.5	15.8
MAY													
11...	1355	12.0	--u	--u	7.2	380	160	--	44.2	12.0	4.84	.5	15.7
14...	1120	12.0	--u	--u	7.6	370	160	8	43.0	11.9	4.93	.6	16.1
24...	1300	12.0	--u	--u	7.3	420	170	9	48.0	12.9	5.93	.5	14.4
JUN													
14...	1130	12.0	--	--	7.3	570	250	55	68.0	19.4	6.29	.7	25.8
JUL													
23...	1110	12.0	--	--	7.1	490	220	16	61.2	17.3	5.83	.6	21.3
AUG													
05...	1230	12.0	--	--	7.3	346	230	19	60.9	19.1	6.20	.7	23.1
19...	1410	12.0	--	--	7.2	280	230	31	61.6	18.4	6.37	.6	21.1

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Sodium, percent (00932)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	.15	.12	35.4	7.99
24...	--	--	--	--	--	--	--	--	--	.11	.09	37.3	8.42
JUN													
14...	--	--	--	--	--	--	--	--	--	.20	.15	40.3	9.10
JUL													
06...	--	--	--	--	--	--	--	--	--	.16	.13	39.1	8.84
23...	--	--	--	--	--	--	--	--	--	.11	.08	22.5	5.08
AUG													
05...	--	--	--	--	--	--	--	--	--	.11	.08	10.2	2.31
19...	--	--	--	--	--	--	--	--	--	.12	.10	2.21	.50
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	--	--	--	--	--	--	--	--	--	.13	.10	34.6	7.83
JUN													
14...	--	--	--	--	--	--	--	--	--	.07	.06	30.5	6.90
JUL													
06...	--	--	--	--	--	--	--	--	--	.06	.05	27.7	6.25
23...	--	318@c	--	--	--	--	--	--	--	.07	.06	25.3	5.71
AUG													
05...	--	365@c	--	--	--	--	--	--	--	--	E.04n	23.2	5.25
19...	--	--	--	--	--	--	--	--	--	.05	.04	21.9	4.95
SEP													
22...	--	--	--	--	--	--	--	--	--	.28	.21	3.92	.89
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	17	--	<.02	5.03d	.4	32.4	43.8d	--	--	--	<.04	--	--
MAY													
11...	17	164@c	<.02	4.86	.4	31.7	41.7	256	.35	--	E.03n	--	--
14...	18	148@c	E.01n	4.94	.5	32.0	44.7	250	.34	--	<.04	--	--
24...	15	164@c	.02	4.50	.4	28.0	42.0	259	.35	.11	.09	--	--
JUN													
14...	18	194@c	.02	8.55	.5	36.7	100	386	.52	--	E.02n	--	--
JUL													
23...	17	208@c	<.02	6.63	.5	35.4	84.7	361	.49	--	E.03n	--	--
AUG													
05...	17	212@c	<.08	6.54	.5	40.4	84.4	371	.50	--	E.03n	--	--
19...	16	199@c	.04	5.70	.4	44.4	74.9	355	.48	--	E.02n	--	--

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Total nitro-gen, wat flt by anal ysis, mg/L (62854)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA ug/L (62850)	2Chloro-2',6'-diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	8.00d	.039	.012	2.47	.81doc	10.9d	--	--	<.09	<.006	<.02	<.005	<.006
24...	8.44d	.069	.021	2.55	.83oc	11.3d	--	--	<.09	<.006	<.02	<.005	<.006
JUN													
14...	9.15d	.177	.054	3.02	.98doc	12.9d	--	--	<.09	<.006	<.02	<.005	<.006
JUL													
06...	8.85d	.049	.015	2.85	.93oc	10.2d	--	--	<.09	<.006	--	<.005	<.006
23...	5.11d	.102	.031	2.71	.885d	7.21d	--	--	--	--	--	--	--
AUG													
05...	2.37	.197	.060	2.99	.97doc	4.33d	--	--	--	--	--	--	--
19...	.53	.105	.032	3.05	.99doc	<.03	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	7.86d	.122	.037	1.82	.59oc	10.9d	--	--	<.09	<.006	<.02	<.005	<.006
JUN													
14...	6.92d	.046	.014	3.20	1.04doc	9.34d	--	--	<.09	<.006	<.02	<.005	<.006
JUL													
06...	6.26d	.026	.008	3.95	1.29doc	8.09d	--	--	<.09	<.006	<.02	<.005	<.006
23...	5.71d	.030	.009	5.31	1.73doc	8.50d	--	--	<.09	<.006	.04	<.005	<.006
AUG													
05...	5.26d	.043	.013	6.58	2.15doc	7.29d	--	--	<.09	<.006	<.02	<.005	<.006
19...	4.97d	.082	.025	6.96	2.27doc	6.82d	--	--	<.09	<.006	<.02	<.005	<.006
SEP													
22...	.92	.125	.038	1.41	.461d	2.43	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	<.06	--	<.008	2.35	.77oc	1.56	<6	E.6n	<.09	<.006	<.02	<.005	<.006
MAY													
11...	<.06	--	<.008	2.43	.79oc	1.69	<6	E.6n	<.09	<.006	<.02	<.005	<.006
14...	<.06	--	<.008	2.82	.92oc	1.59d	E4n	E.6n	<.09	<.006	<.02	<.005	<.006
24...	.47	--	E.005n	2.22	.72oc	2.22	28	501	<.09	<.006	<.02	<.005	<.006
JUN													
14...	.13	--	<.008	3.04	.99doc	2.14	<6	16.6	<.09	<.006	<.02	<.005	<.006
JUL													
23...	<.06	--	<.008	3.01	.98doc	2.30	E4n	1.1	<.09	<.006	<.02	<.005	<.006
AUG													
05...	<.06	--	<.008	3.20	1.04doc	1.91	E4n	E.5n	<.09	<.006	<.02	<.005	<.006
19...	<.06	--	<.008	2.83	.92oc	<.03	E4n	1.0	<.09	<.006	<.02	<.005	<.006

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	2-Ethyl -6- methyl- aniline water, fltrd, ug/L (61620)	3,4-Di- chloro- aniline water fltrd, ug/L (61625)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Aceto- chlor ESA, water, fltrd 0.7u GF ug/L (61029)	Aceto- chlor OA, water, fltrd 0.7u GF ug/L (61030)	Aceto- chlor SAA, water, fltrd, ug/L (62847)	Aceto- chlor, water, fltrd, ug/L (49260)	Ala- chlor ESA SA, water, fltrd, ug/L (62849)	Ala- chlor ESA, water, fltrd 0.7u GF ug/L (50009)	Ala- chlor OA, water, fltrd 0.7u GF ug/L (61031)	Ala- chlor SAA, water, fltrd, ug/L (62848)	Ala- chlor, water, fltrd, ug/L (46342)	Amino- methyl- phos- phonic acid, wat flt ug/L (62649)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	<.02	<.02	<.02	--u	<.1
24...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	<.02	<.02	<.02	<.005	<.1
JUN													
14...	<.004	<.004	<.006	<.02	<.02	<.02	<.006	<.02	<.02	<.02	<.02	<.005	.3
JUL													
06...	<.004	<.004	<.006	--	--	--	<.006	--	--	--	--	<.005	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	<.004	<.004	<.006	<.02	.10	<.02	<.006	<.02	<.02	<.02	<.02	<.005	<.1
JUN													
14...	<.004	<.004	<.006	.21	.62	<.02	<.006	<.02	<.02	<.02	<.02	<.005	.2
JUL													
06...	<.004	<.004	<.006	.20	.59	<.02	<.006	<.02	<.02	<.02	<.02	<.005	<.1
23...	<.004	<.004	<.006	.27	.23	.04	<.006	<.02	<.02	<.02	<.02	<.005	--
AUG													
05...	<.004	<.004	<.006	.19	.08	.08	<.006	<.02	<.02	<.02	<.02	--u	--
19...	<.004	<.004	<.006	.25	.04	.10	<.006	<.02	<.02	<.02	<.02	--u	<.1
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	<.004	<.004	<.006	.03	<.02	<.02	<.006	<.02	<.02	<.02	<.02	--u	<.1
MAY													
11...	<.004	<.004	<.006	.08	<.02	<.02	<.006	<.02	<.02	<.02	<.02	<.005	.1
14...	<.004	<.004	<.006	.06	<.02	<.02	<.006	<.02	<.02	<.02	<.02	--u	.2
24...	<.004	<.004	<.006	.09	.17	.09	<.006	<.02	<.02	<.02	<.02	<.005	<.1
JUN													
14...	<.004	<.004	<.006	.33	.21	<.02	<.006	<.02	<.02	<.02	<.02	<.005	.1
JUL													
23...	<.004	<.004	<.006	.53	.23	<.02	<.006	<.02	<.02	<.02	<.02	<.005	--
AUG													
05...	<.004	<.004	<.006	.34	.10	<.02	<.006	<.02	<.02	<.02	<.02	--u	--
19...	<.004	<.004	<.006	.58	.14	<.02	<.006	<.02	<.02	<.02	<.02	--u	.1

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Atrazine, wat flt immunoassay unadj. ug/L (99775)	Atrazine, water, fltrd, ug/L (39632)	Azinphos-methyl oxon, water, fltrd, ug/L (61635)	Azinphos-methyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cyfluthrin, water, fltrd, ug/L (61585)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
24...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUN													
14...	--	.146	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUL													
06...	--	<.007	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	.09	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUN													
14...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUL													
06...	--	<.007	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
23...	--	<.007	<.07	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	.075	<.012
AUG													
05...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
19...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
MAY													
11...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
14...	--	<.007	<.02	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
24...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	<.003	<.012
JUN													
14...	--	<.007	<.02	<.050	<.010	<.041	<.06	<.005	<.006	<.008	<.009	.029	<.012
JUL													
23...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
AUG													
05...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012
19...	--	<.007	<.07	<.050	<.010	--u	<.06	<.005	<.006	<.008	<.009	<.003	<.012

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Diazinon oxon, water, fltrd, ug/L (61638)	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethenamid ESA, water, fltrd, ug/L (61951)	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethenamid water, fltrd, ug/L (61588)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
24...	--u	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUN													
14...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUL													
06...	--u	--u	<.08	<.009	--	--	--	<.006	<.0020	<.004	<.049	<.04	<.03
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	--u	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUN													
14...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUL													
06...	--u	--u	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
23...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
AUG													
05...	<.01	--u	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
19...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
MAY													
11...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
14...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
24...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUN													
14...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.03	<.004	<.008	<.03	<.03
JUL													
23...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
AUG													
05...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03
19...	<.01	<.005	<.08	<.009	<.02	<.02	<.02	<.006	<.0020	<.004	<.049	<.04	<.03

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Desulfinylfipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufenacet OA, water, fltrd, ug/L (62483)	Flufenacet, water, fltrd, ug/L (62481)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Glufosinate, water, fltrd 0.7u GF ug/L (62721)	Glyphosate, water, fltrd 0.7u GF ug/L (62722)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
24...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	--u	<.1	<.1	<.013	<1
JUN													
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
JUL													
06...	<.029	<.013	<.024	<.016	--	--	--	<.003	--u	--	--	<.013	<.387
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	--u	<.1	<.1	<.013	<1
JUN													
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
JUL													
06...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	--u	<.1	<.1	<.013	<.387
23...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
AUG													
05...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
19...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	<.1	<.1	<.013	<.387
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
MAY													
11...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
24...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
JUN													
14...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.002	<.003	<.1	<.1	<.013	<1
JUL													
23...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
AUG													
05...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	--	<.013	<.387
19...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.003	<.003	--	<.1	<.013	<.387

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Isofen-phos, water, fltrd, ug/L (61594)	Mala-oxon, water, fltrd, ug/L (61652)	Mala-thion, water, fltrd, ug/L (39532)	Meta-laxyl, water, fltrd, ug/L (61596)	Methi-althion water, fltrd, ug/L (61598)	Methyl para-oxon, water, fltrd, ug/L (61664)	Methyl para-thion, water, fltrd 0.7u GF ug/L (82667)	Metola-chlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metola-chlor OA, water, fltrd 0.7u GF ug/L (61044)	Metola-chlor, water, fltrd, ug/L (39415)	Metri-buzin, water, fltrd, ug/L (82630)	Myclo-butanil water, fltrd, ug/L (61599)	Pendi-meth-alin, water, fltrd 0.7u GF ug/L (82683)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.013	--u	<.008	<.022
24...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.013	<.006	<.008	<.022
JUN													
14...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	.12	.14	.192	<.006	<.008	<.022
JUL													
06...	<.003	<.030	<.027	<.005	<.006	--u	<.015	--	--	<.013	<.006	<.008	<.022
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.013	<.006	<.008	<.022
JUN													
14...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.070	<.006	<.008	<.022
JUL													
06...	<.003	<.030	<.027	<.005	<.006	--u	<.015	<.02	<.02	<.013	<.006	<.008	<.022
23...	<.003	<.030	<.027	<.005	<.006	<.03	<.015	.11	.04	<.013	<.006	<.008	<.022
AUG													
05...	<.003	--u	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.013	<.006	<.008	<.022
19...	<.003	--u	<.027	<.005	<.006	--u	<.015	<.02	<.02	<.013	<.006	<.008	<.022
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.025	--u	<.008	<.022
MAY													
11...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	.02	<.02	<.013	<.006	<.008	<.022
14...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	.03	<.02	<.013	--u	<.008	<.022
24...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	.03	<.02	<.013	<.006	<.008	<.022
JUN													
14...	<.003	<.008	<.027	<.005	<.006	<.03	<.015	.10	.03	<.013	--u	<.008	<.022
JUL													
23...	<.003	<.030	<.027	<.005	<.006	<.03	<.015	.07	.04	<.013	<.006	<.008	<.022
AUG													
05...	<.003	--u	<.027	<.005	<.006	<.03	<.015	<.02	<.02	<.013	<.006	<.008	<.022
19...	<.003	--u	<.027	<.005	<.006	--u	<.015	<.02	<.02	<.013	<.006	<.008	<.022

CENTRAL NEBRASKA BASINS STUDY UNIT—AGRICULTURAL CHEMICAL TRANSPORT STUDY
VADOSE ZONE/SOIL—Continued

Date	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prome-ton, water, fltrd, ug/L (04037)	Prome-tryn, water, fltrd, ug/L (04036)	Propy-zamide, water, fltrd 0.7u GF ug/L (82676)	Propa-chlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propa-chlor OA, water, fltrd 0.7u GF ug/L (62767)	Sima-zine, water, fltrd, ug/L (04035)	Tebu-thiuron water fltrd 0.7u GF ug/L (82670)	Ter-bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu-fos, water, fltrd 0.7u GF ug/L (82675)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	<.02
24...	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	--u
JUN													
14...	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
JUL													
06...	<.10	<.011	<.05	<.008	<.01	<.005	--u	--	--	<.005	<.02	<.07	--u
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAY 2004													
24...	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	--u
JUN													
14...	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
JUL													
06...	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	--u
23...	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
AUG													
05...	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	<.02
19...	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	<.02
SEP													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)													
MAR 2004													
31...	<.10	<.011	--u	--u	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
MAY													
11...	<.10	<.011	<.06	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	<.02
14...	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
24...	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
JUN													
14...	<.10	<.011	<.06	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
JUL													
23...	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.05	<.02	<.005	<.02	<.07	<.02
AUG													
05...	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	--u
19...	<.10	<.011	<.05	<.008	<.01	<.005	--u	<.05	<.02	<.005	<.02	<.07	<.02

Date	Ter-buthyl-azine, water, fltrd, ug/L (04022)	Tri-flur-alin, water, fltrd 0.7u GF ug/L (82661)	Di-chlor-vos, water fltrd, ug/L (38775)
413350096324730 VADOSE ZONE ACTVZ1-4A NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)			
MAR 2004			
31...	--	--	--
MAY			
11...	--u	<.009	<.01
24...	--u	<.009	<.01
JUN			
14...	<.01	<.009	<.01
JUL			
06...	--u	<.009	<.01
23...	--	--	--
AUG			
05...	--	--	--
19...	--	--	--
413350096324731 VADOSE ZONE ACTVZ1-4B NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)			
MAY 2004			
24...	--u	<.009	<.01
JUN			
14...	<.01	<.009	<.01
JUL			
06...	--u	<.009	<.01
23...	<.01	<.009	<.01
AUG			
05...	--u	<.009	<.01
19...	--u	<.009	<.01
SEP			
22...	--	--	--
413350096324732 VADOSE ZONE ACTVZ1-4C NEAR NICKERSON, NE (LAT 41 33 50N LONG 096 32 47W)			
MAR 2004			
31...	<.01	<.009	<.01
MAY			
11...	--u	<.009	<.01
14...	<.01	<.009	<.01
24...	<.01	<.009	<.01
JUN			
14...	<.01	<.009	<.01
JUL			
23...	<.01	<.009	<.01
AUG			
05...	--u	<.009	<.01
19...	--u	<.009	<.01

Remark codes used in this table:
  < -- Less than
  E -- Estimated value
Value qualifier codes used in this table:
  @ -- Holding time exceeded
  c -- See laboratory comment
  d -- Diluted sample: method hi range exceeded
  i -- Result may be affected by interference
  m -- Value is highly variable by this method
  n -- Below the LRL and above the LT-MDL
  o -- Result determined by alternate method
Null value qualifier codes used in this table:
  o -- Insufficient amount of water
  u -- Unable to determine-matrix interference

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The following list contains discontinued and currently operated continuous-record streamflow stations on streams within Nebraska and its border with adjacent States. Daily streamflow records were collected and published for the periods of record shown for each station. Some stations have monthly figures published for additional periods other than those noted in the period of record column. The stations in bold text are active gaging stations. For ease in reading the station number, the 06 preceding the number has been left off as well as the 00 following a 4-digit number.

LIST OF ACTIVE AND DISCONTINUED GAGING STATIONS

[mi^2, square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi^2)	Period of record (water years)	Type of record				
	Cheyenne River Basin							
396490	Warbonnet Creek near Harrison	24.5	1969-78		p			
	White River Basin							
4432	White River tributary near Glen	7.97	1953-70		p			
4433	Deep Creek near Glen	10.9	1953-78		p			
4435	White River near Crawford	163	1897	d				
4437	Soldiers Creek near Crawford	52.6	1955-78		p			
4439	White River tributary No. 2 near Crawford	5.45	1953-70		p			
4440	**White River at Crawford**	313	1931-43, 1948-91	d				
			2004-current					
			1957			c		
4445	White River below Crawford	350	1931	d				
4450	White River below Cottonwood Creek near Whitney	676	1949-61	d				
4450	White River near Whitney		1969-72			c	m	
4455	White River near Chadron	750	1931-43	d				
445530	Chadron Creek tributary at Chadron State Park near Chadron	.59	1953-78		p			
445560	Chadron Creek at Chadron State Park near Chadron	15.4	1953-78		p			
445590	Big Bordeaux Creek near Chadron	9.42	1968-79	d				
4457	White River at Slim Butte, SD		1964, 1965-67			c		
			1964-67				s	
			1965-67					t
	Ponca Creek Basin							
4534	Ponca Creek near Naper	373	1961-74	d				
4535	Ponca Creek at Anoka	504	1949-94	d				
			1949-53, 1964, 1967			c		
453550	Ponca Creek at Lynch	--	1961-64	d			s	
4536	**Ponca Creek at Verdel**	812	1957-current	d				
			1930, 1949, 1971			c		
			1975-80			c	m	t
	Niobrara River Basin							
4541	Niobrara River at Agate		1952	d		c		
4544	Niobrara River tributary near Belmont	6.71	1971-78					
4545	Niobrara River above Box Butte Reservoir		1952	d		c		
4555	Niobrara River below Box Butte Reservoir	1,460	1947-91	d				
4559	Niobrara River near Dunlap	1,580	1931-42, 1962-71	d				
			1969-73			c	m	t
4562	Pebble Creek near Esther	3.07	1953-78		p			
4563	Pebble Creek near Dunlap	23.5	1953-70		p			
4564	Cottonwood Creek near Dunlap	82.2	1953-78		p			
4565	Niobrara River near Hay Springs	1,790	1950-64	d				
			1949-53, 1961, 1964			c		
			1950-57				s	
			1951-55					t

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Niobrara River Basin—Continued							
4570	Niobrara River near Colclesser	2,220	1948	d				
			1969-73		c	m		t
4571	Point of Rocks Creek near Marsland	7.10	1970-78	p				
4572	Berea Creek near Alliance	34.0	1953-78	p				
4575	Niobrara River near Gordon	4,290	1929-32, 1946-91	d				
			1947-55		c		s	
			1964		c		s	t
4577	Antelope Creek at Gordon	61.1	1953-70	p				
4577	Antelope Creek near Gordon		1948-49		c			
4578	Antelope Creek tributary near Gordon	26.6	1953-78	p				
4580	Antelope Creek near Gordon	160	1948	d				
4585	Bear Creek near Eli	360	1948-53	d				
			1947		c	m		t
4590	Niobrara River at Cody	5,570	1948-57	d				
4590	Niobrara River near Cody		1948-56		c		s	t
459175	Snake River at Doughboy (d)	405	1982-93	d				
4592	Snake River above Merritt Reservoir	440	1963-81	d				
			1964-75					t
			1976		c			t
459350	Ainsworth Canal near Johnstown		1978-84		c			t
4595	Snake River near Burge	646	1947-94	d				
			1947-52		c			
			1949-53				s	
4600	Gordon Creek near Simeon	--	1948	d				
			1948		c			
4605	Niobrara River near Valentine	6,160	1901-06, 1928-32	d				
			1948		c			
4609	Minnechaduza Creek near Kilgore	85.0	1958-74	d				
4610	Minnechaduza Creek at Valentine	390	1948-93	d				
			1948-49		c			
4613	Big Beaver Creek near Valentine	24.9	1971-79	p				
4615	**Niobrara River near Sparks**	7,150	1945-current year	d	c			t
			1982-93		c			t
4620	Niobrara River near Norden	8,390	1953-83, 1986	d				
			1953, 1961, 1964-67		c		s	t
462450	Plum Creek at Johnstown		1969-75, 1978-84		c	m		t
462470	Plum Creek near Johnstown		1969-75, 1978-84		c	m		t
4625	Plum Creek at Meadville	536	1948-75, 1977-94	d				
4625	Plum Creek near Meadville		1948-49		c		s	
			1977-84		c			t
4630	Niobrara River at Meadville	--	1951-52	d				
			1950-52		c		s	t
463050	Long Pine Creek at Long Pine		1978-84		c			t
463080	Long Pine Creek near Long Pine	246	1980-91	d				
463090	Bone Creek at Ainsworth		1969-75, 1978-84		c			t
4631	Bone Creek tributary near Ainsworth	.39	1956-68	p				
4632	Bone Creek tributary No. 2 near Ainsworth	2.18	1958-68	p				
463290	Sand Draw near Johnstown		1978-84		c			t
4633	Sand Draw tributary near Ainsworth	1.07	1956-74	p				
463310	Sand Draw near Meadville		1978-84		c			t
463350	Bone Creek near Long Pine		1969-75, 1978-84		c			t
4635	**Long Pine Creek near Riverview**	458	1948-54, 1954-current	d	c		t	
463720	Niobrara River at Mariaville	9,810	1986-91	d				

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Niobrara River Basin—Continued							
463720	Niobrara River near Mariaville		1985-89			c	m	s	
4645	**Keya Paha River at Wewela, SD**	1,070	1937-40, 1947-current	d					
4645	Keya Paha River at Wewela, SD		1947-49			c			
4649	Keya Paha River near Naper	1,690	1958-94	d					
4650	Niobrara River near Spencer	11,070	1913, 14, 1927-36, 1940-2001	d					
4650	Niobrara River near Spencer		1946-48			c			
			1976			c			t
465050	Eagle Creek near Midway		1957-66			c			
			1976-90			c			t
4651	East Branch Eagle Creek near Midway		1957-66			c			
			1976-90			c			t
			1974-83			c			
4652	Honey Creek near O'Neill	2.54	1958-68		p				
465202	Honey Creek near Midway		1957-66			c			
4653	Camp Creek near O'Neill	1.65	1958-78		p				
465310	Eagle Creek near Redbird	206	1979-91	d					
			1986-90			c			
465398	Redbird Creek near Meek		1957-66			c			
			1976-90			c			t
4654	Blackbird Creek tributary near O'Neill	.60	1958-68		p				
465420	Blackbird Creek near Meek		1957-66			c			
			1976-90			c			t
465440	Redbird Creek at Redbird	157	1981-94	d					
4655	**Niobrara River near Verdel**	11,580	1938-40, 1958-current	d					
			1973-94			c	m		
			1972-94					s	t
			1972-81					s	
			1976-80			c			
465650	South Branch Verdigre Creek near Royal		1967			c			
465680	North Branch Verdigre Creek near Verdigre	137	1980-92	d					
4657	**Verdigre Creek near Verdigre**	470	1957-58, 2002-current	d					
			1948-49			c			
			1948-50					s	
465850	Bingham Creek near Niobrara	6.5	1968-79		p				
4660	Niobrara River at Niobrara	--	1954-58	d					
	Bazile Creek Basin								
4662	Bazile Creek near Creighton		1967			c			
4664	**Bazile Creek at Center**	315	2002-current	d					
4665	**Bazile Creek near Niobrara**	457	1952-1995, 2002- current	d					
	Weigand Creek Basin								
466950	Weigand Creek near Crofton	3.5	1968-78		p				
	Missouri River								
4670	**Lewis and Clark Lake near Yankton, SD**	279,500	1955-current	e					
4675	Missouri River at Yankton, SD		1951, 1957-59			c			
			1957-59						t

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record			
	Bow Creek Basin						
478518	Bow Creek near St. James	304	1979-93	d			
478520	West Bow Creek near Fordyce	52.8	1964-65, 1968-78		p		
	Missouri River						
4860	**Missouri River at Sioux City, IA**	314,600	1897-current	d			
	Omaha Creek Basin						
6006	South Omaha Creek tributary near Walthill	2.64	1951-67		p		
6007	South Omaha Creek near Walthill	15.1	1951-67		p		
6008	South Omaha Creek tributary No. 2 near Walthill	1.51	1950-78		p		
6009	**South Omaha Creek at Walthill**	51.2	2002-current	d			
6009	South Omaha Creek at Walthill	51.0	1951-78		p		
6010	**Omaha Creek at Homer**	174	1945-current	d			
	Blackbird Creek Basin						
6011	Blackbird Creek near Macy	102	1979-80	d			
	Missouri River						
6012	**Missouri River at Decatur**	316,200	1987-current	d			
6012	Missouri River at Decatur		1969-73			c m	t
Tekamah Creek Basin							
6077	South Branch Tekamah Creek near Craig	2.54	1950-67		p		
6078	South Branch Tekamah Creek tributary near Tekamah	4.08	1951-78		p		
6079	South Branch Tekamah Creek near Tekamah	9.73	1951-67		p		
6080	Tekamah Creek at Tekamah	23.0	1949-81	d			
			1982-89		p		
	New York Creek Basin						
6086	New York Creek near Spiker	1.75	1952-67		p		
6087	New York Creek tributary near Spiker	1.55	1951-78		p		
6088	New York Creek north of Spiker	6.50	1951-75		p		
6089	New York Creek east of Spiker	13.9	1950-78		p		
6090	New York Creek at Herman	29.7	1946-69	d			
	Missouri River						
6098	Missouri River near Mormon Bridge at Omaha		1974-75			c m	t
6100	**Missouri River at Omaha**	322,800	1928-current	d			
6100	Missouri River at Omaha		1969-72			c m	t
6106	Missouri River at Bellevue		1969-70, 1971-73			c m	t
Papillion Creek Basin							
6107	Big Papillion Creek near Orum	8.52	1968-78		p		
	Platte River Basin						
6562	Ft. Laramie Canal at Wyoming-Nebraska State Line near Lyman		1964			c	
6566	Interstate Canal at Wyoming-Nebraska State Line near Henry		1964			c	
6568	High Line Canal near Bayard		1964			c	
656955	Low Line Canal near Bayard		1964			c	
6740	Mitchell Canal at Wyoming-Nebraska State line	--	1938-41	d			

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Platte River Basin—Continued							
6745	**North Platte River (head of Platte River) at Wyoming-Nebraska State line**	22,218	1929-current	d		c	s	t
6745	North Platte River at Wyoming-Nebraska State line at Henry		1946,1964			c		
6750	North Platte River at Henry	--	1912-18	d				
6750	North Platte River south of Henry		1938			c		
	South Horse Creek lateral at Wyoming-Nebraska State line near Lyman		1964			c		
677208	Kiowa Creek near Gering		1964			c		
677210	Kiowa Creek above Ft. Laramie Canal near Lyman		1963-64			c		
677220	Kiowa Creek above Horse Creek lateral near Lyman		1963-64			c		
677221	Unnamed tributary to Kiowa Creek near Lyman		1963-64			c		
677234	Owl Creek above Ft. Laramie Canal near Lyman		1963-64			c		
677235	Owl Creek below Ft. Laramie Canal near Lyman		1963-64			c		
677240	Owl Creek near Lyman		1963-64			c		
677245	Unnamed eastern tributary to Kiowa Creek near Lyman		1963-64			c		
677250	Kiowa Creek above Dry Creek Drain near Lyman		1963-64			c		
677251	Dry Creek Drain below Ft. Laramie Canal near Lyman		1963-64			c		
677270	Western tributary to Dry Creek Drain above Horse Creek lateral		1963-64			c		
677274	Dry Creek Drain below Horse Creek lateral near Lyman		1963-64			c		
677280	Western tributary to Dry Creek Drain near Lyman		1963-64			c		
677290	Dry Creek Drain near Lyman		1963-64			c		s
6773	Kiowa Creek near Lyman		1961-65			c		s
6775	Horse Creek near Lyman	1,707	1931-94	d				
			1949, 1964			c		
			1970-73					t
677550	Lane Drain near Lyman		1964			c		
6780	Sheep Creek near Morrill	362	1932-91	d				
			1964			c		
6785	North Platte River at Morrill	--	1917-23	d				
678580	Morrill Drain near Morrill		1964			c		
678610	Akers Draw near Morrill		1949-64			c		
6787	Brown Canyon Drain near Mitchell		1961-65			c		s
678750	Dry Spottedtail Creek tributary near Mitchell	15.0	1971-78		p			
6788	Dutch Flats Drain near Mitchell	--	1961-65	d				
6788	Dutch Flats Drain near Mitchell		1961-65			c		s
6790	Dry Spotted Tail Creek at Mitchell	77.2	1949-79	d				
6790	Dry Spottedtail Creek at Mitchell		1964			c		
6794	Bald Drain near Mitchell		1964			c		
			1970-73			c		t
6795	North Platte River at Mitchell	24,300	1920-94	d				
			1964			c		
679950	Wet Spottedtail Creek near Mitchell		1964			c		
6800	Tub Springs near Scottsbluff	--	1949-79	d				
			1964			c		
680450	Gering Canal at siphon under Gering Drain near Gering		1964			c		
6805	North Platte River at Scottsbluff	24,500	1887-1900, 1912, 1917-18	d				
6807	Winter Creek at Tri-State Canal, near Scottsbluff	--	1961-65	f				
			1961-65			c		s
6808	Hale Drain near Scottsbluff		1961-65			c		s
680950	Scottsbluff Drain No.1 near Scottsbluff		1964			c		

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Platte River Basin—Continued							
6810	Winter Creek near Scottsbluff	--	1932-79	d				
			1964		c			
681290	Gering Drain tributary near Gering		1963-64		c			
6813	Gering Drain at Mitchell-Gering Canal near Gering		1961-65		c		s	
6815	Gering Drain near Gering	79.8	1932-45, 1949-91	d				
			1964		c		s	
681950	Scottsbluff Drain No. 2 near Minatare		1964		c			
6820	North Platte River near Minatare	24,700	1924-91	d				
			1938, 1964		c			
682010	Fairfield Seep near Minatare		1964		c			
6822	Alliance Drain near Minatare	--	1961-65	d				
			1961-65		c		s	
682280	Ninemile Drain above Tri-State Canal near Minatare		1963-64		c			
682290	East Ninemile Drain near Minatare		1963-64		c			
6823	Ninemile Drain near Minatare	--	1961-65	d				
			1961-65		c		s	
6825	Ninemile Drain near McGrew	--	1932-79	d				
			1964		c			
682505	North Platte River at McGrew		1973-89		c	m		
6830	Bayard Sugar Factory Drain near Bayard	--	1932-79	d				
			1964		c			
683050	Cleveland Drain near McGrew		1964		c			
6832	West Wildhorse Drain near Bayard		1961-62		c		s	
6833	Wildhorse Drain near Bayard		1961-62		c		s	
6835	Red Willow Creek near Bridgeport	83.0	1931	d				
6840	Red Willow Creek near Bayard	162	1932-79	d				
			1964		c			
684250	DeGraw Drain near Bridgeport		1964		c			
684350	Indian Creek near Bridgeport		1964		c			
684450	Upper Dugout Creek near Bridgeport		1964		c			
6845	North Platte River at Bridgeport	25,300	1917-91	d				
			1964		c			
			1971-74		c			t
			1970-73		c			t
6849	Hackberry Creek near Redington	16.6	1970-78		p			
6850	Pumpkin Creek near Bridgeport	1,020	1932-91	d				
			1949		c			
6855	North Platte River at Broadwater	--	1917-23	d				
6860	North Platte River at Lisco	26,700	1932-94	d				
			1970-94		c	m	s	
			1971-81		c			
			1971-81					t
6865	North Platte River at Oshkosh	31,300	1916-17, 1928-60	d				
			1951		c			
6870	Blue Creek near Lewellen	1,190	1931-91	d				
6875	North Platte River at Lewellen	28,600	1941-91	d				
6876	Ash Hollow near Oshkosh	54.9	1971-78		p			
6880	North Platte River at Belmar	29,100	1917-26	d				
6885	Otter Creek near Lemoyne	13.9	1932-37	d				
6890	North Platte River at Lemoyne	--	1926-27	d				
6895	North Platte River at Martin	--	1934-38	d				
6900	Kingsley Reservoir (Lake McConaughy)		1947-50		c			

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Platte River Basin—Continued							
6903	Sutherland Canal below diversion from North Platte River near Keystone		1968		c			
6905	North Platte River near Keystone	29,400	1942-94	d				
			1945		c			
			1973-74		c			t
6910	North Platte River near Sutherland	29,800	1937-91	d				
6915	Birdwood Creek near Sutherland	250	1913-15	d				
6920	Birdwood Creek near Hershey	940	1932-91	d				
6925	Lincoln County Drain No. 1 near North Platte	--	1931, 1955-79	d				
6930	North Platte River at North Platte	30,900	1895-1994	d				
			1950, 1958-59, 1965		c			
7620	Lodgepole Creek at Bushnell (upper station)	1,090	1931-32	d				
7625	**Lodgepole Creek at Bushnell**	1,350	1931-91, 2002 to current	d				
762550	Lodgepole Creek at Kimball		1973-74		c	m		t
762650	Lodgepole Creek tributary near Kimball	8.68	1970-78		p			
7630	Lodgepole Creek at Sidney	2,190	1931-32	d				
7632	Lodgepole Creek tributary near Sumol	15.6	1968-78		p			
7635	Lodgepole Creek at Ralton	3,307		d				
7640	**South Platte River at Julesburg, CO**	22,821	1902-current	d				
764001	South Platte River at Julesburg, CO		1946-69		c			
764201	South Platte River near Julesburg, CO		1969-71		c			
7645	South Platte River at Big Springs	23,200	1903	d				
764880	**South Platte River at Roscoe**	23,900	1982-current	d				
			1975-83		c	m		t
7649	Sutherland Canal below diversion from South Platte River near Paxton		1968		c			
7650	South Platte River at Paxton	24,000	1923-24, 1931-33, 1937-70	d				
			1965		c			
7657	Supply Canal (Tri-County diversion) near Maxwell		1951-72		c			t
7660	Platte River at Brady		1950-72		c			
			1951-72					t
7655	South Platte River at North Platte	24,300	1917-94	d				
			1993-95		c		s	t
765698	Tri-County Canal (1.25 mi below diversion) near North Platte		1993-95		c		s	t
765710	Fremont Slough near North Platte	--	1983-85	d				
7660	Platte River at Brady	56,200	1939-91	d				
7665	Platte River near Cozad	56,500	1938-91	d				
			1947-49, 1965,					
7670	Platte River near Lexington	57,300	1902-06, 1916-24	d				
			1951		c			
767040	Johnson Reservoir below Power Plant No. 2 near Lexington		1950-52, 1957-70		c			
7671	South Fork Plum Creek tributary near Farnam	9.81	1951-70		p			
7672	North Fork Plum Creek tributary near Farnam	1.83	1952-78		p			
7673	Plum Creek tributary at Farnam	19.8	1947-48, 1952-70		p			
7674	North Plum Creek near Farnam	38.3	1952-70		p			
767410	Plum Creek near Farnam	79.8	1947, 1951-78		p			
7675	Plum Creek near Smithfield	224	1946-53, 1968-75, 1981-1991, 1996- 2002	d				
7675	Plum Creek near Smithfield	229	1955-68, 1978		p			
			1996-98		c			t
767996	Larson Drain 2 miles SW of Platte River bridge S of Overton		1968		c			

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Platte River Basin—Continued							
7680	**Platte River near Overton**	56,300	1914-94, 1997-98	d		c		t
768015	Spring Creek below Lexington		1973-74			c	m	t
768020	**Spring Creek near Overton**		1996-current	d				
768020	Spring Creek near Overton		1996-99			c		t
768035	**Platte River Middle Channel at Cottonwood Ranch, near Elm Creek**		2001-current	d				
768050	Buffalo Creek tributary No. 1 near Buffalo	2.08	1965-78		p			
7681	East Buffalo Creek near Buffalo	5.21	1951-78		p			
7682	Buffalo Creek at Buffalo	33.5	1951-67		p			
7683	Buffalo Creek tributary No. 2 near Buffalo	1.93	1952-65		p			
7684	West Buffalo Creek near Buffalo	17.1	1951-78		p			
7685	Buffalo Creek near Darr	63.0	1947-69	d				
			1948			c		
7690	**Buffalo Creek near Overton**	**175**	1949-1958	d				
			1996-current					
7690	Buffalo Creek near Overton		1996-99			c		t
7691	Elm Creek tributary near Overton	.58	1951-78		p			
7692	Elm Creek near Sumner	14.9	1951-78		p			
7693	Elm Creek tributary No. 2 near Overton	5.62	1951-78		p			
7695	Elm Creek near Overton	31.0	1947-58	d				
769525	**Elm Creek near Elm Creek**		1996-current	d				
769525	Elm Creek near Elm Creek		1996-99			c		t
769950	Unnamed Drain 2.2 miles SW of Platte River bridge S of Elm Creek		1968			c		
769994	Unnamed Drain 8.2 miles N of Holdrege		1968			c		
769996	Unnamed Drain 5.2 miles SE of Platte River bridge S of Elm Creek		1968			c		
7700	Platte River near Odessa	58,100	1938-91	d				
			1947-49, 1950-52, 1965			c		
770002	Unnamed Drain 2.3 miles SE of Platte River bridge S of Odessa		1968			c		
770175	Whisky Slough 1 mi E of Phelps-Kearney County line	--	1996-98	d				
			1996-98			c		t
770190	North Dry Creek near Kearney	--	1969-71	d				
			1969-71			c	m	t
770195	North Dry Creek 2 mi SW of Platte River Bridge S of Kearney	77.7	1996-2003	d				
770195	North Dry Creek 2 mi SW of Platte River bridge south of Kearney		1996-99			c		t
770198	Whiskey Slough 3.2 miles SW of Platte River bridge south of Kearney		1968			c		
7702	**Platte River near Kearney**	**57,260**	1982-current	d				
7702	Platte River near Kearney		1947, 1959			c		
770205	Platte River (North Channel) near Kearney		1973-74			c	m	t
770240	Fort Kearney Slough near Newark		1996-2003	d				
770240	Fort Kearney Slough near Newark		1998			c		t
770250	Crooked Creek Drain 0.8 mile NW of Newark		1968			c		
770253	**Platte River near Newark**		1999-current				s	t
770255	Downstream Drain near Newark	--	1996-98	d				
			1996-98			c		t
770340	Lost Creek 7.7 miles NE of Axtell		1968			c		
770375	**Platte River near Prosser**		1999-current				s	t

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Platte River Basin—Continued							
770470	**Platte River near Doniphan**		1999-current				s	t
770478	Platte River near Grand Island (South Channel)	--	1984-87	d				
7705	**Platte River near Grand Island**	**57,650**	1933-current	d				
7705	Platte River near Grand Island		1972-80					t
			1972-89		c	m		
			1993-95		c		s	
			1996-99		c			t
7706	Wood River tributary near Lodi	2.02	1952-78	p				
7707	Wood River near Lodi	12.9	1952-78	p				
7708	Wood River near Oconto	26.4	1950, 1952-78	p				
7709	Wood River at Oconto	44.8	1950, 1952-78	p				
770910	Wood River near Lomax	79.6	1952-78	p				
7710	Wood River near Riverdale	379	1946-73	d				
			1974-80	p				
			1947-49, 1965-66, 1974		c			
			1947-52				s	
7715	Wood River near Gibbon	526	1949-76, 1991-95	d				
			1966, 1974, 1976		c			
7720	Wood River near Alda	599	1954-94	d				
			1966, 1974, 1998-99		c	m		t
7722	Wood River near Grand Island		1965-66, 1973-74		c	m		t
7725	Wood River near Chapman		1958-59, 1962-80		c	m		t
772750	Warm Slough near Chapman		1965-66		c			
772775	**Warm Slough near Central City**		1996-curent	d				
			1996-99		c			t
772898	**Silver Creek at 4 mile, near Silver Creek**	**160**	1996-2001, 2002-current	d				
			1996-99		c			t
7729	Silver Creek near Silver Creek		1951, 1965-66		c			
772950	Prairie Creek near Cairo		1965		c			
7730	Dry Creek near Cairo	25	1949-53	d				
773050	Prairie Creek near Ovina	132	1991-95, 1996-99	d				
773150	Silver Creek at Ovina	67.6	1991-95	d				
			1993-95		c		s	
			1966		c			
7734	Prairie Creek near Central City		1965-66		c			
773410	Prairie Creek near Fullerton		1951		c			
7735	**Prairie Creek near Silver Creek**	**492**	1949-1953,1996-2001, 2002-current	d				
			1996-99		c			t
7740	**Platte River near Duncan**	**59,300**	1895-1909, 1912-1915, 1928-current	d				
7740	Platte River near Duncan		1965-94		c		s	t
			1996-99		c			t
7745	Middle Loup River near Mullen	1,120	1947-48	d				
7750	Middle Loup River near Seneca	1,140	1948-53	d				
			1949-51				s	
7755	**Middle Loup River at Dunning**	**1,830**	1945-current	d				
			1947-66		c			
			1950-52, 1954, 1977				s	
			1950-56, 1966-89					t
7757	North Fork Dismal River near Mullen	670	1971-78	p				

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Platte River Basin—Continued							
7759	**Dismal River near Thedford**	**966**	1966-current	d		c	s	t
7760	Dismal River near Gem	1,360	1947-53	d				
			1949-51				s	
7765	Dismal River at Dunning	2,040	1932, 1946-95	d				
			1952			c		
			1948-53, 1956-57				s	
			1956, 1977				s	
7770	Middle Loup River near Milburn	3,690	1952-56, 1958, 1960- 64	d				
			1949-55				s	
			1970-74			c		t
7775	Middle Loup River at Walworth	4,650	1941-60	d				
			1949				s	
7776	Lillian Creek tributary near Broken Bow	2.02	1952-78		p			
7777	Lillian Creek near Broken Bow	4.77	1947, 1951-78		p			
7778	Lillian Creek tributary near Walworth	2.04	1951-78		p			
7779	Lillian Creek near Walworth		1951				s	
7780	Middle Loup River at Sargent	4,480	1937-38, 1953-70	d				
7781	Detention structure near Sargent		1960-62				s	
7785	Middle Loup River near Comstock	4,960	1937	d				
			1969-74			c		t
778860	Farwell Canal at Highway 58 above Sherman Reservoir		1977-83			c		t
7790	Middle Loup River at Arcadia	5,040	1937-93	d				
			1949			c		
			1948-57				s	
			1977-83			c		
7795	Middle Loup River at Loup City	4,860	1936-38, 1949-56	d				
			1949-52				s	
7800	Middle Loup River at Rockville	5,310	1956-64, 1968-75	d				
7805	Boelus Power Canal near Boelus	--	1952-63	d				
7810	Middle Loup River at Boelus	--	1952-55	d				
7815	Middle Loup River at Boelus (combined flow)	--	1937-38	d				
781530	Deer Creek near Boleus		1977-83			c		t
7820	South Loup River near Cumro	1,340	1946-53	d				
			1948			c		
			1948-51				s	
7825	South Loup River at Ravenna	1,660	1941-58, 1968-75	d				
7826	South Branch Mud Creek tributary near Broken Bow	.43	1951-78		p			
782620	South Branch Mud Creek near Broken Bow	79.4	1976-78		p			
7827	South Branch Mud Creek at Broken Bow	400	1945, 1951-75		p			
7828	North Branch Mud Creek at Broken Bow	15.5	1952-67		p			
7829	Mud Creek tributary near Broken Bow	5.98	1945, 1951-78		p			
7830	Mud Creek near Broken Bow	440	1949-53	d				
			1973-74			c	m	t
7835	Mud Creek near Sweetwater	707	1946-94	d				
			1977				s	
			1978-89			c	m	
7840	**South Loup River at St. Michael**	**2,350**	1943-current	d				
			1946-53				s	
7843	Oak Creek near Loup City	41.9	1952-60, 1961-64	d				
			1951-58				s	
7844	Oak Creek near Farwell		1977-83			c		t
7845	Oak Creek near Dannebrog	122	1949-57	d				
			1977-83			c		t

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record			
	Platte River Basin—Continued						
784505	Dry Creek near Dannebrog		1977-83		c		t
7847	Turkey Creek near Farwell	27.2	1950, 1953-78	p			
784750	Turkey Creek near Nysted		1977-83		c		t
7848	Turkey Creek near Dannebrog	66.2	1966-93	d			
784810	Turkey Creek northeast of Dannebrog		1977-83		c		t
784820	Turkey Creek tributary near St. Paul		1977-83		c		t
7850	**Middle Loup River at St. Paul**	**8,075**	1894-1915,	d			
			1928-current				
785020	Unnamed Creek at St. Paul		1977-83		c		t
7855	North Loup River at Brewster	1,890	1945-51	d			
			1950		c		
			1948-51			s	
7860	**North Loup River at Taylor**	**2,350**	1936-current	d			
			1956		c		
			1949, 1977			s	
			1974-81		c		t
7865	North Loup River at Burwell	2,510	1953-60	d			
7865	North Loup River near Burwell		1944, 1952		c		
			1949-57			s	
7870	Calamus River near Harrop	693	1979-97	d			
7875	Calamus River near Burwell	994	1941-95	d			
			1944, 1952-56		c		
			1949-55			s	
			1972-81		c		t
7880	North Loup River near Burwell	--	1937-38, 1952-60	d			
7885	North Loup River at Ord	3,760	1952-94	d			
			1944		c		
			1949-55			s	
788988	Mira Creek near North Loup	65.8	1980-93	d			
7890	North Loup River at Scotia	3,960	1937-70	d			
			1944		c		
			1949			s	
7891	Davis Creek tributary near North Loup	2.29	1952-67	p			
7892	Davis Creek tributary No. 2 near North Loup	6.79	1952-70	p			
7893	Davis Creek near North Loup	21.1	1952-67	p			
7894	Davis Creek southwest of North Loup	41.6	1951-78	p			
7895	Davis Creek near Cotesfield	94.0	1949-58	d			
			1950-53, 1956			s	
7900	North Loup River near Cotesfield	--	1950-56	d			
			1950, 1951-54			s	
790245	Auger Creek at Elba		1977-83		c		t
790255	Unnamed Creek south of Elba		1977-83		c		t
7905	**North Loup River near St. Paul**	4,302	1894-1915,	d			
			1928-current				
7906	East Branch Spring Creek tributary near Wolbach	1.52	1952-78	p			
7907	West Branch Spring Creek at Brayton	19.5	1945, 1952-78	p			
7908	West Branch Spring Creek near Wolbach	36.9	1952-67	p			
7909	Mary's Creek at Wolbach	7.63	1952-67	p			
7910	Spring Creek at Cushing	164	1949-53	d			
7911	Spring Creek near Cushing	184	1948, 1953-78	p			
791150	Loup River near Palmer		1993-95		c	s	t

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Platte River Basin—Continued							
7915	Cedar River near Spalding	752	1945-53, 1958-94	d				
			1947-49, 1959-60		c			
			1946-47				s	
			1957-63		c		s	
7917	Spalding Power Canal at Spalding	--	1960-64	d				
791750	Cedar River at Primrose	870	1960-64	d				
7918	Cedar River at Belgrade	1,060	1960-65	d				
			1959		c			
			1958-63				s	
7920	Cedar River near Fullerton	1,220	1931-32, 1941-95	d				
			1958-59, 1974-96		c			
7921	Fullerton Power Canal at Fullerton	--	1960-64	d				
792499	Loup River Power Canal at Diversion near Genoa		1973-86		c	m	s	t
			1974-83					t
7925	**Loup River Power Canal near Genoa**		1936-current	d				
			1950-53				s	
7930	**Loup River near Genoa**	**14,320**	1928-1932, 1943-current	d				
			1976, 1979-86		c		s	t
7935	Beaver Creek at Loretto	311	1945-53, 1980-91	d				
			1947-49		c			
			1946-51				s	
7936	Beaver Creek near Albion		1973-78		c	m		t
793995	Skeedee Creek tributary near Genoa	.59	1968-78	p				
7940	**Beaver Creek at Genoa**	**677**	1940-current	d				
			1977				s	
			1978-89		c	m		
7945	Loup River at Columbus	15,200	1895-1915, 1931, 1934-78	d				
			1946		c			
794650	**Clear Creek, 1.75 miles west of the Polk County line**		1996-2001, 2002-current					
			1996-99		c			t
7947	Platte River near Schuyler		1966-68		c		s	
794710	Bone Creek near David City	8.75	1968-78	p				
7950	Shell Creek at Newman Grove	122	1949-67	d				
7950	Shell Creek at Newman Grove	122	1961	p				
7955	**Shell Creek near Columbus**	**294**	1947-1975, 1977-current	d				
			1948-49, 1968, 1993-95		c			
			1948-49, 1993-95				s	
7960	**Platte River at North Bend**	**70,400**	1949-current	d				
			1966-69				s	
			1973-77					t
			1973-89		c	m		
796450	Platte River near Fremont	--	1911-15	d				
7965	**Platte River near Leshara**	**76,638**	1994-current	d				
796950	Elkhorn River near Stuart		1966, 1968-69		c			
796973	Elkhorn River near Atkinson	586	1983-91	d				
796973	Elkhorn River near Atkinson		1983-89		c	m		
796978	Holt Creek near Emmet	--	1979-89	d				
796980	Holt Creek near Emmet		1966, 1968-69		c			
796985	Elkhorn River at Emmet	--	1980-82	d				

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Platte River Basin—Continued							
7970	Elkhorn River at O'Neill	651	1931-32	d				
7972	Dry Creek near O'Neill		1966, 1968-69		c			
7974	Elkhorn River near Inman		1966, 1968-69		c			
			1965-70				s	
7975	**Elkhorn River at Ewing**	**1,400**	1947-current	d				
			1948-49, 1960-66, 1968-69, 1976		c			
			1948-52, 1961				s	
7980	South Fork Elkhorn River near Ewing	314	1948-53, 1961-72, 1978-91	d				
7980	South Fork Elkhorn River at Ewing		1948, 1960-66		c			
			1961, 1963-67				s	
798150	Cache Creek near Ewing		1967-68		c			
7983	Clearwater Creek near Clearwater	210	1962-64, 1978-91	d				
798302	Clearwater Creek at Clearwater		1964, 1967-69		c			
			1962-64				s	
798450	Antelope Creek near Neligh		1967-68		c			
7985	Elkhorn River at Neligh	2,200	1931-93	d				
			1947, 1967-68, 1974-81		c			t
			1948-51				s	
			1962-64				s	
798550	Cedar Creek at Oakdale		1967-69				s	
7988	Elkhorn River at Meadow Grove	2,500	1960-65	d				
			1943, 1964, 1967-69		c			
			1963-65				s	
7989	Elkhorn River near Battle Creek		1968-69		c			
798920	Battle Creek at Battle Creek		1968-69		c			
7990	**Elkhorn River at Norfolk**	**2,790**	1896-1903, 1945-current	d				
			1960-69, 1974-89		c	m		
			1976-77				s	t
799020	North Fork Elkhorn River above Pierce		1968-69		c			
799030	Dry Creek near Pierce		1968-69		c			
799031	North Fork Elkhorn River below Dry Creek		1968		c			
799040	Yankton Slough near Pierce		1968		c			
799050	Willow Creek near Pierce		1968-69		c			
799080	Willow Creek near Foster	137	1976-93	d				
7991	**North Fork Elkhorn River near Pierce**	**701**	1960-current	d				
			1944, 1959-64, 1968- 69		c			
			1961, 1963-64				s	
799110	North Fork Elkhorn River at Hadar		1968-69		c			
799130	North Fork Elkhorn River at Norfolk		1965, 1968-69		c			
			1965-68				s	
799190	South Fork Union Creek tributary near Cornlea	6.54	1968-78			p		
799230	Union Creek at Madison	174	1979-93	d				
799290	Union Creek near Stanton		1964, 1968-69		c			
			1962-65				s	
7993	Elkhorn River at Stanton		1943, 1968-69		c			
799310	Humbug Creek near Pilger		1968-69		c			
799325	Rock Creek near Beemer		1968-69		c			
799345	Plum Creek near Beemer		1968-69		c			
799350	Elkhorn River at West Point		1968-69, 1981-89		c	m		

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Platte River Basin—Continued							
799365	Cuming Creek near Scribner		1968-69		c			
799385	Pebble Creek at Scribner	204	1979-93	d				
			1968-69		c			
799445	Logan Creek at Wakefield		1963		c			
799450	Logan Creek at Pender	731	1966-93	d				
			1964-68, 1973-89		c	m		
799850	Pond Creek near Schuyler	.54	1968-78		p			
799315	**Elkhorn River at Pilger**	**4,360**	2001-current	d				
799350	**Elkhorn River at West Point**	**4,680**	1972-current	d				
7994	Elkhorn River near Hooper		1968-69		c			
799410	Middle Logan Creek at Laurel		1968-69		c			
799423	North Logan Creek near Laurel	25.3	1965, 1968-78		p			
799445	**Logan Creek at Wakefield**	**543**	2002-current	d				
799460	**Logan Creek near Bancroft**	**854**	2002-current	d				
7995	**Logan Creek near Uehling**	**1,015**	1941-current	d				
			1968-71, 1974-81					t
7999	Middle Fork Maple Creek near Schuyler		1968		c			
8000	**Maple Creek near Nickerson**	**369**	1951-current	d	c		s	t
800250	Bell Creek at Arlington		1968-69		c			
800350	Elkhorn River tributary near Nickerson	6.53	1968-78		p			
8005	**Elkhorn River at Waterloo**	**6,900**	1899-1903,1911-1915, 1928-current	d	c		s	t
			1966-95		c	m	s	t
8010	**Platte River near Ashland**	**84,200**	1928-1953, 1988-current	d				
			1946, 1950-53, 1969		c			
801148	East inlet to Olive Creek Lake near Kramer		1967		c			
801180	**Olive Branch (head of Salt Creek) near Hallam**	37.8	1997-2004	d	c			t
8012	Olive Branch above Sprague	43	1956-61		p			
801264	West tributary to Bluestem Lake near Sprague		1967		c			
801266	Bluestem Lake near Sprague		1968		c			
8013	Salt Creek subwatershed No. 3 near Sprague	4.20	1955-59	d				
801320	Olive Branch below Sprague	81	1956-58		p			
801330	Salt Creek near Roca		1971-80		c	m		
801340	Hickman Branch above Hickman	14.7	1956-61		p			
801345	Tributary to Wagon Train Lake near Hickman		1967		c			
801346	Wagon Train Lake near Hickman		1967		c			
801360	Hickman Branch at Hickman	42.8	1956-61		p			
801364	West tributary to Stagecoach Lake near Hickman		1967		c			
801365	South inlet to Stagecoach Lake near Hickman		1967		c			
801366	Stagecoach Lake near Hickman		1968		c			
801370	Hickman Branch near Roca		1971		c	m		t
8014	Salt Creek subwatershed No. 1 near Roca	1.46	1955-61	d				
8015	Salt Creek subwatershed No. 12 near Roca	1.12	1954-61	d				
8025	Salt Creek subwatershed No. 34 near Roca	5.72	1954-61	d				
8026	Hickman Branch at Roca		1972		c	m		t
8030	**Salt Creek at Roca**	**167**	1951-current	d				
803010	Salt Creek at Saltillo Siding		1972		c			
803068	Cardwell Branch near Denton		1968		c			
803070	Yankee Hill Reservoir at dam near Denton		1968		c			
803073	Holmes Creek near Denton		1968		c			
803075	Conestoga Lake near Denton		1968		c			
803080	**Salt Creek at Pioneers Boulevard at Lincoln**	**220**	1994-current	d				

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Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Platte River Basin—Continued							
803080	Salt Creek above Beal Slough at Lincoln		1971-83		c	m		t
803085	Beal Slough at Lincoln		1971-72		c	m		t
803093	**Haines Branch at SW 56th St. at Lincoln**	**60**	1994-current	d				
803098	Haines Branch at Lincoln		1971-72		c	m		t
8031	Salt Creek at A Street at Lincoln		1950		c			
803113	West tributary to Twin Lakes Reservoir near Pleasant Dale		1968		c			
803114	North tributary to Twin Lakes Reservoir near Pleasant Dale		1968		c			
803115	Twin Lakes Reservoir near Pleasant Dale		1968		c			
803128	Middle Creek near Malcolm		1968		c			
803130	Pawnee Lake near Emerald		1968		c			
803170	**Middle Creek at SW 40th St at Lincoln**	**94**	1994-current	d				
803180	Middle Creek at Lincoln		1971-72		c	m		t
803190	Salt Creek at 14th Street at Lincoln		1971-80		c	m		t
803196	Antelope Creek above Antelope Lake at Lincoln		1968		c			
803198	Antelope Lake at Lincoln		1968		c			
803199	Antelope Creek at 52nd Street at Lincoln		1983		c			t
8032	Antelope Creek at 48th Street, Lincoln	6.82	1951, 1958-78	p				
8033	Antelope Creek at 27th Street at Lincoln		1971-72, 1983		c	m		t
8033	Antelope Creek at 27th Street, Lincoln	10.4	1957-78	p				
8034	Antelope Creek at 17th St., at Lincoln	12.1	1958-62	d				
		12.5	1963-78	p				
			1963		c			
803405	Antelope Creek at Court Street at Lincoln		1971-83		c	m		t
803442	Oak Creek at Agnew		1968		c			
803445	Middle Oak Creek near Garland		1968		c			
803448	Branched Oak Reservoir near Raymond		1968		c			
803450	Oak Creek near Raymond	88.7	1963-67	d				
803470	North Oak Creek near Valparaiso		1971-72		c	m		t
803480	Oak Creek above Air Base near Lincoln		1971-72		c	m		t
803485	Elk Creek near Lincoln		1971-72		c	m		t
803486	**Oak Creek at Air Park Rd at Lincoln**	**240**	1999-current	d				
803490	Oak Creek at 1st Street at Lincoln		1968-69		c			
803493	Oak Creek at 14th Street at Lincoln		1971-80		c	m		t
8035	**Salt Creek at Lincoln**	**685**	1949-current	d				
			1950-60, 1968-80		c	m		t
			1951-54				s	
803501	Dead Man's Run at 66th Street at Lincoln		1983		c			t
803503	Dead Man's Run at Highway 6 at Lincoln		1971-72, 1983		c	m		t
803507	Little Salt Creek near Davey		1952, 1969		c			
803510	**Little Salt Creek near Lincoln**	**43.6**	1969-current	d				
803510	Little Salt Creek near Lincoln		1952, 1969		c			
			1971-72, 1974-77		c	m		t
803513	**Salt Creek at 70th St. at Lincoln**	**753**	1994-current	d				
803515	Stevens Creek near Walton		1971-72		c	m		t
803520	**Stevens Creek near Lincoln**	**47.8**	1698-current	d				
			1969, 1979-80		c			
803525	Salt Creek below Stevens Creek near Waverly		1971-93		c	m		
803523	Stevens Creek at Highway 6 near Lincoln		1971-72, 1974-78		c	m		t
803530	**Rock Creek near Ceresco**	**120**	1970-current	d				
			1970-81		c	m	s	t
803534	Rock Creek near Greenwood		1971-72, 1977		c	m		t
803537	Camp Creek near Greenwood		1971-72		c	m		t
803540	Dee Creek near Alvo	8.06	1962-78	p				

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Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Platte River Basin—Continued							
803550	Dee Creek at Greenwood	14.3	1960	d				
			1971-72		c	m		t
803555	**Salt Creek at Greenwood**	**1,051**	1951-current	d				
			1971-89		c	m		
			1971-72, 1981-84					t
			1972-76				s	
803558	Greenwood Creek near Greenwood		1971-72		c	m		t
803563	Callahan Creek near Greenwood		1971-72		c	m		t
803565	Salt Creek above Ashland		1971-74		c	m		t
803567	Salt Creek at Ashland		1972		c			
803570	Dunlap Creek tributary near Weston	0.31	1950-78	p				
8036	North Fork Wahoo Creek near Prague	15.2	1951-78	p				
8037	Dunlap Creek near Weston	8.90	1951-67	p				
8039	North Fork Wahoo Creek at Weston	43.7	1951-78	p				
803920	Cottonwood Creek above Czechland near Rescue	--		d				
803935	Cottonwood Creek tributary above Dam 6B near Prague	--	1994-96	d				
8040	**Wahoo Creek at Ithaca**	**273**	1949-current	d	c			
			1967-68		c			
8041	Silver Creek near Cedar Bluffs	10.9	1950-78	p				
8042	Silver Creek near Colon	29.9	1950-78	p				
8043	Silver Creek tributary near Colon	14.3	1951-78	p				
8044	Silver Creek tributary at Colon	22.4	1951-78	p				
804495	Silver Creek near Wahoo		1974-78		c	m		t
8045	Silver Creek at Ithaca	80.0	1950-58	d				
8045	Silver Creek at Ithaca	72.0	1959-78	p				
8047	**Wahoo Creek at Ashland**	**416**	1990-current	d				
8049	**Johnson Creek near Memphis**	**21.5**	1990-current	d				
8050	Salt Creek near Ashland	1,640	1948-67	d				
			1950		c			
805005	Salt Creek at mouth near Ashland		1971		c			
805010	Platte River near South Bend		1960-65		c			
			1960, 1965, 1970				s	
805499	Mill Creek at Louisville		1973-81		c	m	s	t
8055	**Platte River at Louisville**	85,370	1953-current	d	c		s	t
805510	Buffalo Creek near Gretna	4.29	1968-78	p				
805520	Cedar Creek near Manley		1968		c			
805525	Cedar Creek near Louisville		1973-81		c	m	s	t
			1971		c	m		t
805550	Platte River near Plattsmouth		1969-72		c	m		t
805565	Fourmile Creek near Plattesmouth		1974-81		c	m	s	t
805570	Platte River at La Platte		1974		c	m		t
	Weeping Water Creek Basin							
8064	Weeping Water Creek at Elmwood	20.8	1951-67	p				
806420	Stove Creek near Elmwood	5.23	1951-67	p				
806440	Stove Creek at Elmwood	10.0	1950-78	p				
806460	Weeping Water Creek at Weeping Water	75.5	1947, 1950-78	p				
			1973-81		c	m	s	t
806470	Weeping Water Creek tributary near Weeping Water	.87	1950-78	p				
806495	South Branch Weeping Water Creek near Union		1973-81		c	m	s	t
8065	**Weeping Water Creek at Union**	**241**	1950-current	d				
			1977				s	

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Weeping Water Creek Basin—Continued							
806501	Weeping Water Creek near Union		1973-81		c	m	s	t
			1971		c	m		t
			1977				s	
8070	**Missouri River at Nebraska City**	**410,000**	1929-current	d				
Honey Creek Basin								
810060	Honey Creek near Peru	3.40	1968-78		p			
	Missouri River							
8070	Missouri River at Nebraska City		1951-73		c			t
	Little Nemaha River Basin							
8101	Hooper Creek tributary near Palmyra	7.81	1950-78		p			
8102	Hooper Creek near Palmyra	57.5	1951-67		p			
8103	Wolf Creek near Syracuse	25.5	1951-67		p			
8104	Little Nemaha River tributary near Syracuse	.76	1950-78		p			
8105	Little Nemaha River near Syracuse	218	1951-69	d				
8109	Brownell Creek subwatershed No. 1A near Syracuse	19	1955-69	d				
8109	Brownell Creek SWS No. 1A near Syracuse		1955-69				s	
8110	Brownell Creek subwatershed No. 1 near Syracuse	.77	1955-69	d				
			1955-69				s	
8115	**Little Nemaha River at Auburn**	792	1949-current	d				
8115	Little Nemaha River at Auburn		1977				s	
			1973-89		c	m		
	Missouri River							
8135	**Missouri River at Rulo**	414,900	1949-current	d				
	Big Nemaha River Basin							
8145	North Fork Big Nemaha River at Humboldt	548	1953-96	d				
8140	**Turkey Creek near Seneca, KS**	**276**	1948-current	d				
8150	Big Nemaha River at Falls City		1951, 1973-89		c	m		
8150	**Big Nemaha River at Falls City**	1,339	1944-current	d	c			t
8155	Muddy Creek at Verdon	186	1953-72	d				
8155	Muddy Creek at Verdon	186	1973		p			
815510	Temple Creek near Falls City	3.02	1968-78		p			
	Kansas River Basin							
8215	**Arikaree River (head of Kansas River) at Haigler**	1,700	1931-current	d				
			1947-49		c			
			1947-51				s	
			1950-51					t
8225	Pioneer Canal at CO-NE State line	--	1950-51	d				
8230	**North Fork Republican River at CO-NE State line**	2,370	1930-current	d				
			1947-49		c		s	
	Republican River (continuation of Arikaree River):							
8235	**Buffalo Creek near Haigler**	172	1940-current	d				
8240	**Rock Creek at Parks**	23.6	1940-current	d				
			1952-53		c			
8245	Republican River at Benkelman	4,880	1947-94	d				
			1950				s	
			1969-73, 1980-89		c	m		

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Kansas River Basin—Continued							
8275	**South Fork Republican River near Benkelman**	2,740	1894-1895,1902-1906,	d				
			1930-1932,					
			1937-current					
			1950					
8280	Republican River at Max	7,740	1928-45	d				
8280	Republican River near Max		1946-47			c		t
8281	North Branch Indian Creek near Max	4.76	1962, 1970-78		p			
828490	Muddy Creek at Stratton	157	1978	d				
8285	**Republican River at Stratton**	8,200	1950-current	d				
			1951, 1953-54				s	t
8290	Swanson Lake near Trenton	8,620	1953-94	d				
			1957			c		
8295	Republican River at Trenton		1947-49			c		
			1947-49, 1953					t
			1947-51, 1953				s	
			1975-76			c		t
8297	Thompson Canyon near Trenton	10	1966-78		p			
8320	Enders Reservoir		1952-57			c		
8325	Frenchman Creek near Enders		1947-49			c		
			1946-47, 1962, 1964				s	
8230	North Fork Republican River at CO-NE State Line		1947-49			c	s	
8240	Rock Creek at Parks		1952-53			c		
8245	Republican River at Benkelman		1950				s	
			1969-73, 1980-89			c	m	
8275	South Fork Republican River near Benkelman		1950				s	
8300	Republican River at Culbertson	8,450	1931-50	d				
8305	Frenchman Creek near Champion	700	1932-40	d				
8310	Frenchman Creek below Champion	721	1935-56	d				
8315	Frenchman Creek near Imperial	1,050	1941-94	d				
8320	**Enders Reservoir near Enders**	**950**	1950-current	e				
8325	Frenchman Creek near Enders	1,140	1947-93	d				
8327	Frenchman Creek 2.6 miles E of Enders Dam near Wauneta		1962				s	
8329	Frenchman Creek 5.6 miles E of Enders Dam near Wauneta		1962, 1964-67				s	
8331	Frenchman Creek at Wauneta		1962				s	
8333	Frenchman Creek above Sand Canyon near Hamlet		1962				s	
8335	Frenchman Creek near Hamlet	1,270	1929-56	d				
			1962				s	
8340	**Frenchman Creek at Palisade**	1,300	1894-1896,	d				
			1950-current					
8340	Frenchman Creek at Palisade		1964-65, 1975-76			c		t
			1971-76				s	
8341	Spring Creek tributary near Grant	17.9	1970-78		p			
8345	Stinking Water Creek near Wauneta	1,330	1941-50	d				
8350	Stinking Water Creek near Palisade	1,500	1950-94	d				
8351	Bobtail Creek near Palisade	41	1966-78		p			
8355	**Frenchman Creek at Culbertson**	2,990	1913-1915,	d				
			1930-current					
8355	Frenchman Creek at Culbertson		1970-87			c		
8360	Blackwood Creek near Culbertson	320	1946-86	d				
8365	**Driftwood Creek near McCook**	361	1946-current	d				

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Kansas River Basin—Continued							
8370	**Republican River at McCook**	12,240	1930-1932, 1954-current	d				
			1957		c			
			1967-88					t
			1956-57				s	
8371	Ash Creek near Red Willow	22	1966-78					
8373	Red Willow Creek above Hugh Butler Lake	582	1961-94	d				
837390	Hugh Butler Lake near McCook	730	1961-94	e				
8375	Red Willow Creek near McCook	740	1941-47, 1961-93	d				
8379	Red Willow Creek at Red Willow Diversion Dam near McCook		1970-74		c			t
8380	**Red Willow Creek near Red Willow**	820	1939-current	d				
8380	Red Willow Creek near Red Willow		1950-53		c			t
			1950-54				s	
8385	Dry Creek near Bartley	5.24	1955-57	d				
8387	Republican River above Medicine Creek at Cambridge		1951-58		c			
			1951				s	
8390	Medicine Creek at Maywood	231	1951-58	d				
			1960-78		p			
			1951-58				s	t
8392	Elkhorn Canyon near Maywood	6.74	1952-78		p			
8394	Elkhorn Canyon southwest of Maywood	13.2	1952-70		p			
8395	Brushy Creek near Maywood	95.3	1951-58	d				
8395	Brushy Creek near Maywood	130	1947, 1960-76		p			
			1951-58				s	t
			1956		c			
8396	Frazier Creek near Maywood	11.3	1952-70		p			
8397	Frazier Creek tributary near Maywood	.72	1952-78		p			
8398	Fox Creek (Site No. 1) near Curtis	6.97	1952-70		p			
839850	Fox Creek north of Curtis	13.8	1952-70		p			
8399	Fox Creek above Cut Canyon near Curtis	31.8	1951-78		p			
839950	Cut Canyon near Curtis	25.6	1951-78		p			
8400	Fox Creek at Curtis	74.3	1952-58, 1978-91	d				
		72.6	1947, 1960-70		p			
			1951-58				s	t
8405	Dry Creek near Curtis	20	1951-58	d				
			1947, 1960-70		p			
			1953-56		c			
			1951-58				s	
8410	Medicine Creek above Harry Strunk Lake	770	1950-94	d				
			1951-56		c			
			1953-58					t
			1951-58				s	
			1951-57					t
			1946-49, 1951-57				s	
8415	Mitchell Creek above Harry Strunk Lake	52.0	1950-74	d				
			1951-56		c			
			1951-57				s	
8420	Harry Strunk Lake near Cambridge	880	1949-94	e				
			1952-56		c			

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record			
	Kansas River Basin—Continued						
8425	Medicine Creek below Harry Strunk Lake	900	1950-94	d			
			1951-52, 1954, 1956-57			s	
			1970-74		c		t
8430	Medicine Creek at Cambridge	909	1936-57	d			
843010	Medicine Creek at Cambridge		1947-53		c		
8435	**Republican River at Cambridge**	14,460	1945-current	d			
8435	Republican River at Cambridge		1947-53		c		
			1951-53			s	
8440	Muddy Creek at Arapahoe	246	1951-72, 1978-93	d			
8442	Turkey Creek near Edison		1968		c		
844210	Turkey Creek at Edison	74.9	1978-93	d			
8445	**Republican River near Orleans**	15,580	1947-current	d			
			1969-94		c		t
8450	Sappa Creek near Oberlin, KS		1952-53, 1963-64		c		
			1963				t
			1950, 1963			s	
8452	Sappa Creek near Beaver City	1,480	1937-72, 2002	d			
			1947-51		c		
			1947-52			s	
			1949-52				t
8465	**Beaver Creek at Cedar Bluffs, KS**	1,618	1945-current	d			
			1962-63		c	s	t
8470	Beaver Creek near Beaver City	2,080	1937-94	d			
			1950-53		c		t
			1948-50, 1951-53			s	
8475	**Sappa Creek near Stamford**	3,840	1945-current	d			
			1948-49, 1953		c		
			1950-53				t
			1947-53			s	
8485	**Prairie Dog Creek near Woodruff, KS**	1,007	1928-1932, 1944-current	d			
8490	**Harlan County Lake Near Republican City**	20,750	1952-current	e			
8490	Harlan County Reservoir		1956-58		c		
8495	**Republican River below Harlan County Dam**	20,820	1952-current	d			
			1969-74		c		t
			1956-57				t
8496	Turkey Creek near Holdrege	27.8	1941, 1960, 1968-78	p			
8500	Turkey Creek at Naponee	129	1948-53	d			
8502	Cottonwood Creek near Bloomington	15.6	1948-56	d			
			1957-78	p			
8505	Republican River near Bloomington	21,020	1929-57	d			
		20,800	1970-78	p			
			1947-49		c		
8510	Center Creek at Franklin	177	1948-56, 1978-93	d			
8510	Center Creek at Franklin	146	1961-68	p			
851090	Republican River at Riverton	-	1970-78	p			
8511	West Branch Thompson Creek at Hildreth	65.2	1953-70	p			
8512	West Branch Thompson Creek near Hildreth	110	1953-70	p			
8513	West Branch Thompson Creek tributary near Hildreth	11.6	1953-78	p			
8514	West Branch Thompson Creek near Upland	90.8	1953-78	p			

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Kansas River Basin—Continued							
8515	Thompson Creek at Riverton	290	1948-56, 1969-75 1978-94	d				
8515	Thompson Creek at Riverton	290	1961-68		p			
			1950-52			c		
8520	Elm Creek at Amboy	39.2	1948-54, 1978-93	d				
			1954-78		p			
8525	**Courtland Canal at NE-KS State line**		1954-current	d				
8530	Republican River near Guide Rock	22,040	1951-84	d				
			1962-85			c	m	t
853020	**Republican River at Guide Rock**	22,100	1950-current	d				
853020	Republican River at Guide Rock		1986-89			c	m	
8531	Beaver Creek near Rosemont	.75	1968-70	d				
8531	Beaver Creek near Rosemont	.752	1971-78		p			
8534	Republican River at Superior	22,300	1971-75, 1977		p			
			1969-73			c		
8535	**Republican River near Hardy**	22,401	1904-1915, 1931-current	d				
879850	Big Blue River tributary near Hordville	4.07	1968-78		p			
8799	Big Blue River at Surprise	345	1964-93	d				
			1965-70, 1974-81			c		t
			1965-72				s	
879945	Kezan Creek near Garrison		1968-69			c		
879995	Lincoln Creek near Utica		1968-69			c		
8800	Lincoln Creek near Seward	438	1954-73, 1974-94	d				
			1963-70, 1973-89			c	m	
			1964-71				s	
8805	Big Blue River at Seward	1,107	1954-94	d				
			1978-89			c	m	
880508	Plum Creek near Seward	85.5	1968-78		p			
880510	Plum Creek at Seward		1968-69			c		
880550	Big Blue River near Milford		1968-69			c		
880556	West Fork Big Blue River below Hastings		1968-69			c		
			1973-78			c	m	t
880590	North Branch West Fork Big Blue River tributary at Giltner	7.52	1968-78		p			
8806	Flessner Creek near Stockham		1968			c		
880710	School Creek tributary near Harvard	13.1	1953-70		p			
880720	School Creek near Harvard	55.1	1953-78		p			
880730	School Creek tributary No. 2 near Harvard	14.0	1953-78		p			
880740	School Creek near Saronville	89.4	1953-70		p			
880750	School Creek near Grafton		1968-69			c		
880775	Beaver Creek tributary near Henderson	1.16	1968-78		p			
880785	Beaver Creek near Beaver Crossing		1968-69			c		
880790	West Fork Big Blue River at Beaver Crossing	1153	1967-68		p			
8808	**West Fork Big Blue River near Dorchester**	1,192	1958-current	d		c		t
8808	West Fork Big Blue River near Dorchester		1963-70, 1973-91			c		
			1988-93				s	
880950	Big Blue River at Crete		1951, 1963			c	s	

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Kansas River Basin—Continued							
8810	**Big Blue River near Crete**	2,710	1945-current	d				
			1961-62, 1964, 1968-84		c	m		
			1960-62, 1964				s	
			1962, 1968-84					t
881010	Squaw Creek near Crete		1968		c			
881050	Big Blue River at Wilber		1964, 1969		c			
881052	Big Blue River near Wilber		1964		c			
8811	Big Blue River at DeWitt		1964		c			
881105	Clatonia Creek near DeWitt		1968		c			
881110	Turkey Creek near Milligan		1968-69		c			
881150	Turkey Creek above Brush Creek near Wilber		1964		c			
8812	Turkey Creek near Wilber	461	1960-94	d				
			1965-72,				s	
			1966-70, 1973-89		c	m		
881210	Turkey Creek 2 miles SW of Wilber		1964		c			
881220	Turkey Creek above Swan Creek near DeWitt		1964		c			
881250	South Fork Swan Creek tributary near Western	1.00	1968-78	p				
881353	North Fork Swan Creek near Swanton		1964		c			
881356	Swan Creek at Swanton		1964		c			
881357	Swan Creek near DeWitt		1968-69		c			
881358	Turkey Creek near DeWitt		1964		c			
881380	**Turkey Creek near DeWitt**	740	2002-current	d				
881420	Big Blue River near DeWitt		1968-69		c			
881430	Cub Creek near Beatrice		1968-69		c			
881450	Indian Creek at Beatrice		1968-69		c			
8815	Big Blue River at Beatrice	3,900	1911-15, 1975-94	d				
			1969-74	p				
			1960-69		c			
			1960-61, 1963				s	
			1978-83		c	m		t
881510	Bear Creek near Adams	2.85	1968-70	p				
881520	Bear Creek near Beatrice		1968-69		c			
881530	Big Blue River tributary near Beatrice	1.86	1971-78	p				
881530	Cedar Creek near Holmesville		1968		c			
881650	Mud Creek near Holmesville		1968-69		c			
881750	Big Indian Creek at Wymore		1968-69		c			
881950	Wildcat Creek near Barneston		1968		c			
8820	**Big Blue River at Barneston**	4,447	1932-current	d	c		t	
8820	Big Blue River at Barneston		1967-68					
			1981-93		c	m		t
882050	Plum Creek at Barneston		1968-69		c			
8824	Big Blue Creek near Oketo, KS		1961-64		c			
882550	Sand Creek near Holstein		1969		c			
882650	Cottonwood Creek near Roseland		1968-69		c			
8829	Little Blue River below Pawnee Creek, near Pauline	929	1963-68	d				
8829	Little Blue River below Pawnee Creek near Pauline	929	1969	p				
			1965, 1968		c			
882950	Pawnee Creek at Spring Ranch		1968-69		c			

[mi², square miles; type of record: d, discharge; e, elevation (stage only); p, peak flow; quality: c, chemical; m, microbiological; s, sediment; t, temperature]

Station number	Station name	Drainage area (mi²)	Period of record (water years)	Type of record				
	Kansas River Basin—Continued							
8830	**Little Blue River near Deweese**	984	1953-1972, 1974-current	d				
			1959-70, 1975-89		c	m		
			1979-81					t
			1953, 1955-61				s	
8831	Little Blue River near Angus	1038	1958-68		p			
8833	Little Blue River above Oxbow Creek near Angus		1968		c			
8835	Little Blue River at Angus	--	1950-53	d				
			1951-53				s	
883510	Elk Creek near Oak		1968-69		c			
883540	Spring Creek tributary near Ruskin	2.11	1968-78		p			
883553	Spring Creek at Hebron		1968-69		c			
883563	Dry Creek near Hebron		1968-69		c			
883570	Little Blue River near Alexandria	1,557	1960-72, 1975-92	d				
883570	Little Blue River near Alexandria (Gilead)		1968		c			
883585	Big Sandy Creek near Davenport		1968-69		c			
8836	South Fork Big Sandy Creek near Edgar	15.2	1953-70		p			
8837	South Fork Big Sandy Creek near Davenport	32.0	1950, 1952-78		p			
8838	South Fork Big Sandy Creek near Carleton	50.4	1953-70		p			
8839	South Fork Big Sandy Creek near Hebron	90.3	1953-70		p			
883940	Big Sandy Creek at Alexandria	607	1980-93	d				
883950	Big Sandy Creek near Powell		1968-69		c			
883955	Little Sandy Creek near Ohiowa	11.6	1968-78		p			
883960	Little Sandy Creek near Powell		1968-69		c			
883995	**Little Blue River at Fairbury**	2,350	1908-1915,1928-1956, 1956-current	d				
883995	Little Blue River at Fairbury		1968-69		c			
8840	**Little Blue River near Fairbury**	2,350	1908-1915,1928-1956, 1956-current	d	c			t
8840	Little Blue River near Fairbury		1951-53, 1955-57				s	
			1952-63, 1960-61, 1968		c			
884005	Dry Branch tributary near Fairbury	4.51	1968-78		p			
884010	Rose Creek near Endicott		1968		c			
884020	Little Blue River at Steele City		1968		c			
884025	**Little Blue River at Hollenberg, KS**	2,752	1974-current	d				
			1972-90		c		s	t

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Conversion Factors

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter (mm)
	2.54×10^{-2}	meter (m)
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^{0}	kilometer (km)
	Area	
acre	4.047×10^{3}	square meter (m^2)
	4.047×10^{-1}	square hectometer (hm^2)
	4.047×10^{-3}	square kilometer (km^2)
square mile (mi^2)	2.590×10^{0}	square kilometer (km^2)
	Volume	
gallon (gal)	3.785×10^{0}	liter (L)
	3.785×10^{-3}	cubic meter (m^3)
	3.785×10^{0}	cubic decimeter (dm^3)
million gallons (Mgal)	3.785×10^{3}	cubic meter (m^3)
	3.785×10^{-3}	cubic hectometer (hm^3)
cubic foot (ft^3)	2.832×10^{-2}	cubic meter (m^3)
	2.832×10^{1}	cubic decimeter (dm^3)
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter (m^3)
	2.447×10^{-3}	cubic hectometer (hm^3)
acre-foot (acre-ft)	1.233×10^{3}	cubic meter (m^3)
	1.233×10^{-3}	cubic hectometer (hm^3)
	1.233×10^{-6}	cubic kilometer (km^3)
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second (L/s)
	2.832×10^{-2}	cubic meter per second (m^3/s)
	2.832×10^{1}	cubic decimeter per second (dm^3/s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m^3/s)
	6.309×10^{-2}	cubic decimeter per second (dm^3/s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second (m^3/s)
	4.381×10^{1}	cubic decimeter per second (dm^3/s)
	Mass	
ton (short)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

°F = (1.8 x °C) + 32

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