

STATE OF NEBRASKA

**DEPARTMENT OF NATURAL
RESOURCES**

**DISCHARGE RECORDS OF STREAMS, CANALS, PUMPS
AND STORAGE IN RESERVOIRS**

2003

**Prepared Under the Direction of Roger K. Patterson, Director
Department of Natural Resources**

HYDROGRAPHIC REPORT

2003

INTRODUCTION and EXPLANATION OF DATA

Most stream gaging data in Nebraska are published in the Nebraska Department of Natural Resource's Hydrographic Report and the Water Resources Data for Nebraska published by the U. S. Geological Survey.

The Water Resources Data for Nebraska, published by the U. S. Geological Survey, includes stream and river data for gaging stations operated by the U. S. Geological Survey and its cooperators, which includes the Department of Natural Resources. Copies can be obtained by contacting the District Chief, U. S. Geological Survey, Room 406, Federal Building and U. S. Courthouse, Lincoln, Nebraska 68508. These data are not published in this report.

The Hydrographic Report for water year 2003 provides a record of stream flow, reservoir storage, and diversions for irrigation and power in Nebraska for gages operated by the Nebraska Department of Natural Resources according to statutory authority granted under Statutes 61-208, 61-211, 46-227, 46-256, and 46-261. This report also includes some records for gages operated by agencies other than the Department of Natural Resources and U.S. Geological Survey. These sites and the operating agency are identified in the station headings. Stations are listed in order from upstream to downstream (downstream order) according to the river basin map on the next page. Multiple gages on a canal system are also in downstream order on the canal. The data presented include mean daily discharges for streams and canals and both daily and monthly reservoir storage values. Instantaneous and daily discharge values are expressed in cubic feet per second (cfs), monthly and annual totals are cubic foot per second-days (cfs-days) and acre-feet. Reservoir storage values are in acre-feet. Zero means there is no flow, a blank indicates no record was made. An "E" next to a daily record indicates an estimated value. Estimated values usually result from either a poor stage-discharge relationship due to a backwater condition or a missing or poor gage height record. Headings describe the period of record, type of gage and locations of gage sites by legal coordinates of Section, Township, and Range, East or West of the 6th Principal Meridian. The "Remarks" section for stations operated year round includes a statement on the accuracy of daily records. U.S. Geological Survey criteria are adopted for these accuracy ratings: If 95 percent of daily discharges are within 5 percent of true values the record is rated "excellent," if they are within 10 percent, the rating is "good," within 15 percent is "fair," and less than 15 percent is "poor."

Data may be converted to other common units of measurement using the table of equivalents listed below:

1 cubic foot.....	7.48 gallons or 62.4 lbs. of water
1 cubic foot.....	0.02832 cubic meters
1 acre-foot.....	43,560 cubic feet or 325,851 gallons
1 cubic foot per second (cfs).....	448.8 gallons per minute
1 cfs for 24 hours.....	1.983 acre-feet
1,000 gallons per minute.....	2.23 cfs
1,000 gallons per minute.....	4.42 acre-feet per day

The Hydrographic Report is available on the internet at the department's web page address www.dnr.state.ne.us. Copies of the Hydrographic Report can be obtained by contacting the Nebraska Department of Natural Resources, PO Box 94676, Lincoln, Nebraska 68509-4676 or by E-mail glindeman@dnr.state.ne.us. Questions or comments can be directed to Guy H. Lindeman at this address or call (402) 471-2363.

Gage records from this and previous years publications are also provided on the Nebraska Department of Natural Resources' computerized Data Bank. This information can be obtained on the internet at the Department of Natural Resources web page address www.dnr.state.ne.us or by contacting the Data Bank Administrator, Nebraska Department of Natural Resources, PO Box 94676, Lincoln, Nebraska 68509-4676. For E-mail requests, use mbansal@dnr.state.ne.us

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2003 HYDROGRAPHIC DATA**

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06444000.03	White River at Crawford
00410000.03	Whitney Reservoir from White River
Niobrara River Basin	
06454000.03	Niobrara River at Wyoming-Nebraska State Line
00072000.03	Johnson Canal
00079000.03	Lakotah Canal
00038100.03	Earnest Canal (South)
00038200.03	Earnest Canal (North)
00084000.03	McGinley-Stover Canal
00029000.03	Cook Canal No. 1
00062000.03	Harris-Neece Canal
00078000.03	Labelle Canal
00089000.03	Mettlen Canal
00013000.03	Bennett-Kay Canal
00104000.03	Moore-Kay Canal
00063000.03	Geo. Hitsheew Canal
00086000.03	McLaughlin Canal
00046000.03	Excelsior Canal
00069000.03	Hughes Canal
00123000.03	Pioneer Canal
06454500.03	Niobrara River above Box Butte Reservoir
06455000.03	Box Butte Reservoir
06455500.03	Niobrara River below Box Butte Reservoir
00102000.03	Montague Canal
00081000.03	Lichte Canal
00100000.03	Mirage Flats Canal
00124000.03	Potmesil Canal
06459175.03	Snake River at Doughby
06459300.03	Merritt Reservoir
00001000.03	Ainsworth Canal
06459500.03	Snake River near Burge
06464900.03	Keya Paha River near Naper
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00052000.03	Ft. Laramie Canal
00052200.03	Ft. Laramie Canal at Mile Post 85.3
00071000.03	Interstate Canal
00400300.03	Lake Alice
00405200.03	Little Lake Alice
00406300.03	Lake Minatare
00412000.03	Winters Creek Lake
00101100.03	Mitchell & Gering Canal
00056000.03	Gering Canal
00145100.03	Tri-State Canal from North Platte River
00144700.03	Tri-State Canal from Sheep Creek
00144500.03	Tri-State Canal from Akers Draw
00144600.03	Tri-State Canal from Dry Spottedtail Creek
00144900.03	Tri-State Canal from Wet Spottedtail Creek
00144800.03	Tri-State Canal from Tub Springs
00115100.03	Northport Canal
06677500.03	Horse Creek near Lyman

**NEBRASKA DEPARTMENT OF NATURAL RESOURCES
2003 HYDROGRAPHIC DATA**

<u>FILE NAME</u>	<u>STATION NAME</u>
06678000.03	Sheep Creek near Morrill
00040000.03	Enterprise Canal from North Platte River
06679000.03	Dry Spottedtail Creek at Mitchell
06679500.03	North Platte River at Mitchell
06680000.03	Tub Springs near Scottsbluff
00148000.03	Winters Creek Canal from North Platte River
00149000.03	Winters Creek Canal from Winters Creek
00022000.03	Central Canal
06681000.03	Winters Creek near Scottsbluff
00099000.03	Minatare Canal
06681500.03	Gering Creek near Gering
00021000.03	Castle Rock-Steamboat Canal
06682000.03	North Platte River near Minatare
00106000.03	Nine Mile Canal from North Platte River
00106100.03	Nine Mile Canal from Nine Mile Creek
06682500.03	Nine Mile Creek near McGrew
00133000.03	Short Line Canal
00024000.03	Chimney Rock Canal
06683000.03	Bayard Creek near Bayard
00002000.03	Alliance Canal from Bayard Sugar Factory Drain
06684000.03	Red Willow Creek near Bayard
00003000.03	Alliance Canal from Red Willow Creek
00009000.03	Belmont Canal from North Platte River
00039000.03	Empire Canal
06684500.03	North Platte River at Bridgeport
00019000.03	Browns Creek Canal
00030000.03	Courthouse Rock Canal
00080000.03	Last Chance Canal
00144200.03	Trinnier Canal
00105500.03	Nelson Canal
00088000.03	Meredith-Ammer Canal
06685000.03	Pumpkin Creek near Bridgeport
00007000.03	Beerline Canal
00010000.03	Belmont Canal from Cedar Creek
00082000.03	Lisco Canal from North Platte River
06686000.03	North Platte River at Lisco
00098000.03	Midland-Overland Canal
00120000.03	Paisley Canal
00017100.03	Blue Creek & Hooper Canal
00067000.03	Hooper Canal
00146000.03	Union Canal
00060000.03	Graf Canal
06687000.03	Blue Creek near Lewellen
06687500.03	North Platte River at Lewellen
06690000.03	Kingsley Reservoir
00138000.03	Sutherland Canal from No. Platte R. & Kingsley Res.
06690500.03	North Platte River near Keystone
00076000.03	Keith-Lincoln Canal
00114000.03	North Platte Canal
00121000.03	Paxton-Hershey Canal
06691000.03	North Platte River near Sutherland
00016000.03	Birdwood Canal
06692000.03	Birdwood Creek near Hershey
00136000.03	Suburban Canal
00027000.03	Cody-Dillon Canal
06692500.03	Lincoln County Drain No. 1 at North Platte

**NEBRASKA DEPARTMENT OF NATURAL RESOURCES
2003 HYDROGRAPHIC DATA**

FILE NAME STATION NAME

06693000.03 North Platte River at North Platte

North & South Platte River Basins (Nebr. Public Power Dist. Projects)

00409100.03 Sutherland Reservoir
00405500.03 Maloney Reservoir
00140000.03 Sutherland Power Return

South Platte River Basin

06762500.03 Lodgepole Creek near Bushnell
00407000.03 Oliver Reservoir
00219000.03 Lodgepole Creek below Oliver Reservoir
06763500.03 Lodgepole Creek at Ralton
00147000.03 Western Canal
06764900.03 South Platte Supply Canal from South Platte River
06765500.03 South Platte River at North Platte

Platte River Basin

00142000.03 Tri-County Canal
00403700.03 Jeffrey Reservoir
00143000.03 Jeffery Power Return
00403300.03 Elwood Reservoir
00403800.03 Johnson Reservoir
00122000.03 Phelps County Canal
00144000.03 Johnson Power Return
00228500.03 Platte River near Maxwell
06766000.03 Platte River at Brady
00141000.03 Thirty Mile Canal
00057000.03 Gothenburg Canal
00019500.03 Buffalo Creek (B-1) Reservoir Supply Canal
00134000.03 Six Mile Canal
00033000.03 Cozad Canal
00117000.03 Orchard-Alfalfa Canal
00037000.03 Dawson County Canal
06766500.03 Platte River near Cozad
00073000.03 Kearney Canal
00075000.03 Kearney Power Return
06770000.03 Platte River near Odessa
06772000.03 Wood River near Alda

Loup River Basin

00130000.03 Sargent Canal
00090000.03 Middle Loup Canal No. 1
00090200.03 Middle Loup Canal No. 1 Pump
00091000.03 Middle Loup Canal No. 2
00092000.03 Middle Loup Canal No. 3
00093000.03 Middle Loup Canal No. 4
00047000.03 Farwell (Sherman Feeder) Canal
00093200.03 Middle Loup Canal No. 4 from Sherman Feeder Canal
06783500.03 Mud Creek near Sweetwater
06784200.03 Sherman Reservoir
00048000.03 Farwell Main Canal
00049000.03 Farwell South Canal

**NEBRASKA DEPARTMENT OF NATURAL RESOURCES
2003 HYDROGRAPHIC DATA**

<u>FILE NAME</u>	<u>STATION NAME</u>
06784800.03	Turkey Creek near Dannebrog
00107000.03	Taylor-Ord Canal
00107100.03	Taylor-Ord Canal inlet to Mirdan Canal
00107200.03	Taylor-Ord Canal outlet from Mirdan Canal
00076500.03	Kent Canal
06787000.03	Calamus River near Harrop
06787300.03	Calamus Reservoir
00100500.03	Mirdan Canal
00019800.03	Calamus Fish Hatchery inlet from Mirdan Canal
00088500.03	Davis Creek Reservoir inlet from Mirdan Canal
06789400.03	Davis Creek Reservoir
00054700.03	Fullerton Canal
06787500.03	Calamus River near Burwell
00108000.03	Burwell-Sumter Canal
06788500.03	North Loup River at Ord
00109000.03	Ord-North Loup Canal
06788988.03	Mira Creek near North Loup
06791500.03	Cedar River near Spalding
06792000.03	Cedar River near Fullerton
06793500.03	Beaver Creek at Loretto
00082100.03	Loup River Power Canal return to the Platte River

Elkhorn River Basin

06796973.03	Elkhorn River near Atkinson
06798000.03	South Fork Elkhorn River near Ewing
06798500.03	Elkhorn River at Neligh
06798080.03	Willow Creek near Foster
00410300.03	Willow Creek Reservoir near Pierce
00232500.03	Willow Creek near Pierce
06799230.03	Union Creek at Madison
06799385.03	Pebble Creek at Scribner
06799450.03	Logan Creek at Pender

Republican River Basin

00061000.03	Haigler Canal
00061400.03	Haigler Canal at NE-CO State Line
00061500.03	Haigler Canal Spillback to Arikaree River
00087000.03	Meeker-Driftwood Canal
06829000.03	Swanson Lake near Trenton
00126700.03	Republican River near Trenton
06831500.03	Frenchman Creek near Imperial
06832500.03	Frenchman Creek near Enders
06835000.03	Stinking Water Creek near Palisade
00035000.03	Culbertson Canal
00127000.03	Riverside Canal
06837300.03	Red Willow Creek above Hugh Butler Lake
06837390.03	Hugh Butler Lake near McCook
06837500.03	Red Willow Creek near McCook
00126000.03	Red Willow Canal
00006000.03	Bartley Canal
06841000.03	Medicine Creek above Harry Strunk Lake
06842000.03	Harry Strunk Lake near Cambridge
06842500.03	Medicine Creek below Harry Strunk Lake
00020000.03	Cambridge Canal

**NEBRASKA DEPARTMENT OF NATURAL RESOURCES
2003 HYDROGRAPHIC DATA**

<u>FILE NAME</u>	<u>STATION NAME</u>
06844000.03	Muddy Creek at Arapahoe
06844210.03	Turkey Creek at Edison
06847000.03	Beaver Creek near Beaver City
06849000.03	Harlan County Lake near Republican City
00105000.03	Naponee Canal
00053000.03	Franklin Canal
06850000.03	Turkey Creek at Naponee
06851000.03	Center Creek at Franklin
06851090.03	Republican River at Riverton
06851500.03	Thompson Creek at Riverton
00054000.03	Franklin Pump Canal
06852000.03	Elm Creek at Amboy
00031000.03	Courtland Canal
00137000.03	Superior Canal

Big Blue River Basin

06879900.03	Big Blue River at Surprise
06880000.03	Lincoln Creek near Seward
06880500.03	Big Blue River at Seward
06881200.03	Turkey Creek near Wilber
06881500.03	Big Blue River at Beatrice

Little Blue River Basin

06883940.03	Big Sandy Creek at Alexandria
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WHITE RIVER BASIN

WHITE RIVER at Crawford, 06444000 - 2003

LOCATION.--SE1/4SW1/4 Sec. 3-31-52 W., Dawes County, Lat. 42° 41' 12", Long. 103° 25' 02", on right bank 15 feet downstream from bridge in city park at Crawford.

DRAINAGE AREA.--313 square miles.

GAGE.--Continuous stage recorder. Gage datum is 3,659.85 feet National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--Feb. 1931 to Sep. 1943, Oct. 1947 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Records are good except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 13,300 cubic feet per second May 10, 1991, gage height 16.32 feet from flood-mark. Discharge calculated by indirect method from road overflow and contracted bridge opening. Minimum daily discharge 2.7 cubic feet per second August 13, 31, September 1, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharge 356 cubic feet per second September 9, gage height 6.06 feet; minimum daily discharge 8.4 cubic feet per second August 14.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	22	23	22	24	24E	26	33	22	19	10	20
2	15	22	23	22	25	24E	26	29	25	18	12	15
3	16	23	24	23	25	25	26	27	23	16	12	13
4	17	23	23	22	24	25	26	26	21	17	12	13
5	17	22	23	22	24	25	26	26	21	17	10	14
6	17	21	22	23	23	25	28	25	21	15	10	15
7	17	22	22	23	23E	26	28	24	26	14	10	15
8	17	22	22	23	23E	27	28	35	26	16	12	17
9	18	22	22	22	24E	25	28	38	23	15	15	140
10	15	21	22	19E	25	24	27	32	22	13	14	46
11	14	21	22	22E	25	25	26	31	22	13	12	29
12	15	22	22	21E	25	25	26	28	22	14	10	24
13	16	22	22	22E	25	25	26	27	37	14	9.5	22
14	15	22	22	22E	26	25	25	25	30	13	8.4	21
15	15	22	23	22E	25	25	25	25	25	12	8.6	20
16	17	22	22	19E	25	24	25	25	22	11	9.1	19
17	17	22	23	22E	26	25	25	24	22	10	8.7	18
18	18	22	22	22E	25	36	28	27	25	11	12	23
19	18	22	22	24	24	33	27	26	23	12	13	20
20	19	22	20	23	24	30	26	25	22	12	16	19
21	19	22	23	23	24	28	26	25	23	11	12	19
22	19	22	22E	20E	24	26	25	23	21	11	11	18
23	21	22	21	23E	21	26	27	23	21	12	9.7	17
24	21	24	22	24	22E	25	28	24	23	11	9.5	16
25	22	23	22	23	23E	25	26	23	24	11	10	17
26	21	23	24	27	23E	25	26	23	22	12	8.5	17
27	21	23	19	24	23E	30	25	22	20	12	9.1	17
28	21	24	23	24	23E	28	25	21	20	13	15	17
29	22	24	23E	24	-----	27	27	21	21	12	14	17
30	23	23	22E	24	-----	27	32	20	21	12	19	20
31	23	-----	22	24	-----	28	-----	20	-----	10	20	-----
TOTAL	561	669	689	700	673	818	795	803	696	409	362.1	698
MEAN	18.1	22.3	22.2	22.6	24.0	26.4	26.5	25.9	23.2	13.2	11.7	23.3
MAX	23	24	24	27	26	36	32	38	37	19	20	140
MIN	14	21	19	19	21	24	25	20	20	10	8.4	13
AC-FT	1,110	1,330	1,370	1,390	1,330	1,620	1,580	1,590	1,380	811	718	1,380
CAL YEAR 2002	TOTAL	7,160.30	MEAN	19.6	MAX	31	MIN	7.8	AC-FT	14,200		
WTR YEAR 2003	TOTAL	7,873.10	MEAN	21.6	MAX	140	MIN	8.4	AC-FT	15,620		

E indicates estimated discharge.

NIOBRARA RIVER BASIN

NIOBRARA RIVER at Wyoming-Nebraska State Line, 06454000 - 2003

LOCATION.--NE1/4NE1/4 Sec. 19-31-57 W., Sioux County, Nebraska, Lat. 42° 39' 10", Long. 104° 03' 07", on right bank 1 mile downstream from Van Tassel Creek on county road, 0.1 mile downstream from Wyoming-Nebraska State Line, and 2 miles east of Van Tassel, WY.

DRAINAGE AREA.--Approximately 455 square miles.

GAGE.--Continuous stage recorder. Gage datum is 4,682.70 feet National Geodetic Vertical Datum of 1929. Present gage moved 3/4 mile downstream September 17, 1996. Datum at previous gage location was 4,687.70 feet. Discharge at present site about one cubic foot per second greater than at old site.

PERIOD OF RECORD.--1955 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are fair, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 2,120 cubic feet per second August 16, 1977, gage height 8.28 feet; minimum daily discharge 0.54 cubic feet per second August 9, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharge 8.6 cubic feet per second April 29, gage height 3.10 feet; maximum gage height 3.34 feet February 3 due to backwater from ice conditions; minimum daily discharge 1.3 cubic feet per second August 22 & 23.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	1.5	3.2	3.3	3.7	3.5	4.7	5.6	3.9	2.5	1.6	2.3
2	2.3	1.5	3.3	3.2	3.7E	3.5	4.4	5.3	4.2	2.4	1.5	2.1
3	2.3	1.4	3.4	3.2	3.5E	3.8	4.4	5.1	3.8	2.3	1.5	2.0
4	2.3	1.4	3.2	3.2	3.8E	3.7	4.6	4.9	3.2	2.2	1.6	2.0
5	2.3	1.4	3.1	3.2	3.7	3.7	4.7	4.8	3.1	2.1	1.5	2.1
6	2.3	1.4	3.1	3.3	3.6	3.9	4.9	4.7	3.1	2.0	1.4	2.1
7	2.2	1.5	3.1	3.2	3.7	4.2	5.1	4.7	3.5	2.1	1.5	2.1
8	2.2	1.7	3.1	3.2	3.6	4.4	4.9	5.3	3.3	2.2	1.7	2.3
9	2.2	1.8	3.1	3.2	3.5	4.0	4.7	5.3	3.0	2.0	1.8	2.8
10	2.1	1.8	3.0	3.2	3.5	4.1	4.5	5.1	2.9	1.9	2.0	3.4
11	2.1	2.0	3.1	3.1	3.4	4.7	4.6	5.0	3.2	1.9	1.7	2.8
12	2.0	2.1	3.2	3.0	3.3	4.8	4.5	4.8	2.9	2.0	1.7	2.4
13	1.9	2.3	3.1	3.1	3.3	4.9	4.5	4.6	2.9	2.0	1.5	2.2
14	1.9	2.5	3.2	3.1	3.5	4.9	4.4	4.3	4.0	2.0	1.4	2.1
15	1.8	2.7	3.4	2.9	3.4	4.9	4.4	4.2	3.8	1.9	1.4	2.1
16	1.8	2.8	3.3	3.4	3.4	4.9	4.1	4.2	3.4	1.8	1.4	2.3
17	1.7	3.0	3.4	2.9	3.5	4.9	4.3	4.2	3.1	1.8	1.4	2.5
18	1.7	3.2	3.4	2.9	3.5	6.0	5.4	4.2	3.0	1.8	1.7	2.7
19	1.6	3.2	3.2	3.1	3.5	5.1	4.5	4.2	2.7	1.8	1.6	2.5
20	1.6	3.3	3.1	3.1	3.5	4.9	4.1	3.9	2.6	1.8	1.5	2.5
21	1.6	3.4	3.1	3.2	3.5E	4.8	4.0	3.8	2.6	1.6	1.4	2.4
22	1.8	3.3	3.0	3.2	3.5E	4.6	3.9	3.9	2.5	1.6	1.3	2.4
23	1.6	3.4	2.9	3.3	3.5E	4.5	5.3	3.9	2.6	1.6	1.3	2.4
24	1.6	3.4	2.9	3.2	3.5E	4.5	5.4	3.9	2.6	1.6	1.4	2.3
25	1.6	3.3E	3.0	3.3	3.5E	4.3	4.5	3.9	2.8	1.5	1.4	2.3
26	1.5	3.4E	3.1	3.2	3.5E	4.4	4.2	3.9	2.6	1.5	1.4	2.3
27	1.6	3.4	3.1	3.5	3.5E	5.1	4.0	3.9	2.4	1.6	1.3	2.3
28	1.5	3.4	3.2	3.6	3.5E	5.4	4.1	3.8	2.3	1.6	1.3	2.3
29	1.5	3.4	3.3	3.5	-----	4.8	6.8	3.8	2.5	1.7	1.9	2.3
30	1.5	3.2	3.3	3.6	-----	5.0	6.0	3.8	2.5	1.6	2.5	2.7
31	1.5	-----	3.3	3.6	-----	5.1	-----	3.7	-----	1.7	2.5	-----
TOTAL	57.8	76.1	98.2	100.0	98.6	141.3	139.9	136.7	91.0	58.1	49.1	71.0
MEAN	1.86	2.54	3.17	3.23	3.52	4.56	4.66	4.41	3.03	1.87	1.58	2.37
MAX	2.3	3.4	3.4	3.6	3.8	6.0	6.8	5.6	4.2	2.5	2.5	3.4
MIN	1.5	1.4	2.9	2.9	3.3	3.5	3.9	3.7	2.3	1.5	1.3	2.0
AC-FT	115	151	195	198	196	280	277	271	180	115	97	141
CAL YEAR 2002	TOTAL	1,064.00	MEAN	2.92	MAX	7.1	MIN	1.4	AC-FT	2,110		
WTR YEAR 2003	TOTAL	1,117.80	MEAN	3.06	MAX	6.8	MIN	1.3	AC-FT	2,220		

E indicates estimated discharge.

NIOBRARA RIVER BASIN

JOHNSON CANAL from Niobrara River, 00072000 - 2003

LOCATION.--NE1/4NE1/4 Sec. 1-30-57 W. near Harrison

GAGE.--Continuous stage recorder and 1.5 ft. Parshall flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	5.0	0	0	0	0
2	0	0	0	0	0	0	0	4.9	0	0	0	0
3	0	0	0	0	0	0	0	4.3	0	0	0	.27
4	0	0	0	0	0	0	0	3.9	0	0	0	.51
5	0	0	0	0	0	0	0	4.0	0	0	0	.53
6	0	0	0	0	0	0	0	3.9	0	0	0	.51
7	0	0	0	0	0	0	0	3.6	0	0	0	.45
8	0	0	0	0	0	0	0	3.9	0	0	0	.47
9	0	0	0	0	0	0	0	4.0	0	0	0	.55
10	0	0	0	0	0	0	0	3.8	0	0	0	.74
11	0	0	0	0	0	0	0	3.9	0	0	0	.87
12	0	0	0	0	0	0	0	3.6	0	0	0	.85
13	0	0	0	0	0	0	0	3.1	0	0	0	.90
14	0	0	0	0	0	0	0	2.8	0	0	0	1.1
15	0	0	0	0	0	0	0	1.8	0	0	0	1.4
16	0	0	0	0	0	0	0	.23	0	0	0	.86
17	0	0	0	0	0	0	0	0	0	0	0	.55
18	0	0	0	0	0	0	0	0	0	0	0	1.3
19	0	0	0	0	0	0	0	0	0	0	0	1.3
20	0	0	0	0	0	0	0	0	0	0	0	1.3
21	0	0	0	0	0	0	0	0	0	0	0	1.5
22	0	0	0	0	0	0	2.4	0	0	0	0	1.5
23	0	0	0	0	0	0	5.2	0	0	0	0	1.5
24	0	0	0	0	0	0	4.5	0	0	0	0	1.4
25	0	0	0	0	0	0	4.6	0	0	0	0	1.4
26	0	0	0	0	0	0	4.5	0	0	0	0	1.4
27	0	0	0	0	0	0	3.7	0	0	0	0	1.4
28	0	0	0	0	0	0	3.3	0	0	0	0	1.4
29	0	0	0	0	-----	0	4.2	0	0	0	0	1.4
30	0	0	0	0	-----	0	4.0	0	0	0	0	1.6
31	0	-----	0	0	-----	0	-----	0	-----	0	0	-----
TOTAL	0	0	0	0	0	0	36.4	56.73	0	0	0	28.96
MEAN	0	0	0	0	0	0	1.21	1.83	0	0	0	.97
MAX	0	0	0	0	0	0	5.2	5.0	0	0	0	1.6
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	72	113	0	0	0	57
CAL YEAR 2002	MAX	4.3	MIN	0	AC-FT	217						
WTR YEAR 2003	MAX	5.2	MIN	0	AC-FT	242						

NIOBRARA RIVER BASIN

LAKOTAH CANAL from Niobrara River, 00079000 - 2003

LOCATION.--NE1/4NE1/4 Sec. 12-30-57 W. near Harrison

GAGE.--Continuous stage recorder and 2 ft. Parshall flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								1.8	1.4	.79	0	0
2								1.9	1.6	.69	0	0
3							4.3 E	1.4	1.6	.60	0	0
4							4.3	1.1	1.5	.48	0	0
5							4.3	.96	1.5	.42	0	0
6							4.4	.86	1.5	.38	0	0
7							4.6	.97	1.9	.35	0	0
8							4.6	1.4	1.9	.30	0	0
9							4.4	1.6	1.8	.25	0	0
10							4.1	1.5	1.5	.21	0	0
11							3.9	1.5	1.3	.18	0	0
12							3.7	1.5	1.2	.14	0	0
13							3.4	1.3	1.2	.14	0	0
14							3.2	1.4	1.4	.13	0	0
15							3.0	1.3	1.4	.11	0	0
16							2.9	2.5	1.2	0	0	
17							3.3	2.5	1.2	0	0	
18							5.5	2.4	1.3	0	0	
19							4.6	2.4	1.3	0	0	
20							4.4	2.4	1.2	0	0	
21							4.3	2.3	1.2	0	0	
22							3.4	2.3	1.1	0	0	
23							1.4	2.2	1.0	0	0	
24							1.4	2.1	1.0	0	0	
25							1.1	1.9	1.1	0	0	
26							1.1	1.9	1.1	0	0	
27							1.0	1.7	1.0	0	0	
28							.86	1.6	.87	0	0	
29					-----		1.1	1.5	.83	0	0	
30					-----		1.3	1.3	.86	0	0	
31		-----			-----		-----	1.3	-----	0	0	-----
TOTAL							89.86	52.79	38.96	5.17	0	0
MEAN							3.21	1.70	1.30	.17	0	0
MAX							5.5	2.5	1.9	.79	0	0
MIN							.86	.86	.83	0	0	0
AC-FT							178	105	77	10	0	0
CAL YEAR 2002	MAX	5.0	MIN	0	AC-FT	274						
WTR YEAR 2003	MAX	5.5	MIN	0	AC-FT	370						

E indicates estimated discharge.

NIOBRARA RIVER BASIN

EARNEST CANAL (SOUTH) from Niobrara River, 00038100 - 2003

LOCATION.--SW1/4SE1/4 Sec. 9-29-56 W. near Harrison

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								2.4E	2.9	2.6	0	0
2								2.3E	3.0	2.5	0	0
3								2.3E	3.1	2.3	0	0
4								2.4E	3.3	2.1	0	0
5								2.4E	3.4	1.9	0	0
6								2.5E	3.5	1.5	0	0
7								2.5	3.6	1.2	0	0
8								3.0	3.7	.79	0	0
9								3.3	3.8	.99	0	0
10								3.4	3.8	.93	0	0
11								3.4	3.6	.82	0	0
12								3.0	3.5	.97	0	0
13								3.4	3.4	1.0	0	0
14								3.5	3.4	.69	0	0
15								3.7	3.4	.04	0	0
16								3.6	3.2	0	0	0
17								3.4	3.6	0	0	0
18								3.3	3.8	0	0	0
19								3.1	3.6	0	0	0
20								2.3	3.4	0	0	0
21								2.2	3.3	0	0	0
22								2.7	3.1	0	0	0
23								2.3	3.0	0	0	0
24								1.9	3.0	0	0	0
25								1.8	3.0	0	0	0
26								2.2	3.0	0	0	0
27								2.1	3.0	0	0	0
28								1.7	2.9	0	0	0
29					-----		2.4E	1.2	2.8	0	0	0
30					-----		2.3E	1.7	2.7	0	0	0
31		-----			-----		-----	2.3	-----	0	0	-----
TOTAL							4.7	81.3	98.8	20.33	0	0
MEAN							2.35	2.62	3.29	.66	0	0
MAX							2.4	3.7	3.8	2.6	0	0
MIN							2.3	1.2	2.7	0	0	0
AC-FT							9.3	161	196	40	0	0
CAL YEAR 2002 MAX		5.2	MIN	0	AC-FT	255						
WTR YEAR 2003 MAX		3.8	MIN	0	AC-FT	407						

E indicates estimated discharge.

NIOBRARA RIVER BASIN

EARNEST CANAL (NORTH) from Niobrara River, 00038200 - 2003

LOCATION.--NE1/4SE1/4 Sec. 9-29-56 W. near Harrison

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	0	0	0	0	0	0	3.6	0	0	.66	0
2	2.4	0	0	0	0	0	0	3.4	0	0	.60	0
3	2.4	0	0	0	0	0	0	2.9	0	0	0	0
4	2.5	0	0	0	0	0	0	2.4	0	0	.67	0
5	2.5	0	0	0	0	0	0	2.0	0	0	.87	1.8
6	2.5	0	0	0	0	0	0	2.0	0	0	.41	2.5
7	2.4	0	0	0	0	0	0	2.9	0	0	.01	1.7
8	1.9	0	0	0	0	0	0	4.2	0	0	0	2.0
9	0	0	0	0	0	0	0	4.8	0	0	0	2.8
10	0	0	0	0	0	0	0	5.0	0	0	0	2.9
11	0	0	0	0	0	0	0	5.0	0	0	0	2.7
12	0	0	0	0	0	0	0	4.1	0	0	0	2.3
13	0	0	0	0	0	0	0	3.6	0	0	0	2.0
14	0	0	0	0	0	0	0	3.8	0	0	0	1.7
15	0	0	0	0	0	0	0	4.0	0	0	0	1.2
16	0	0	0	0	0	0	0	4.0	0	0	0	1.1
17	0	0	0	0	0	0	0	3.9	0	0	0	.27
18	0	0	0	0	0	0	0	3.9	0	0	0	1.9
19	0	0	0	0	0	0	0	4.0	0	0	0	1.7
20	0	0	0	0	0	0	0	3.9	0	0	0	.01
21	0	0	0	0	0	0	0	4.1	0	0	0	.10
22	0	0	0	0	0	0	0	4.0	0	0	0	2.5
23	0	0	0	0	0	0	0	4.0	0	.79	0	2.4
24	0	0	0	0	0	0	0	3.4	0	1.8	0	.56
25	0	0	0	0	0	0	0	2.2	0	1.6	0	0
26	0	0	0	0	0	0	0	0	0	1.5	0	0
27	0	0	0	0	0	0	0	0	0	1.4	0	0
28	0	0	0	0	0	0	0	0	0	.95	0	0
29	0	0	0	0	-----	0	3.2E	0	0	.03	0	0
30	0	0	0	0	-----	0	3.8	0	0	0	0	0
31	0	-----	0	0	-----	0	-----	0	-----	.08	0	-----
TOTAL	19.0	0	0	0	0	0	7.0	91.1	0	8.15	3.22	34.14
MEAN	.61	0	0	0	0	0	.23	2.94	0	.26	.10	1.14
MAX	2.5	0	0	0	0	0	3.8	5.0	0	1.8	.87	2.9
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	38	0	0	0	0	0	14	181	0	16	6.4	68
CAL YEAR 2002	MAX	3.2	MIN	0	AC-FT	335						
WTR YEAR 2003	MAX	5.0	MIN	0	AC-FT	323						

E indicates estimated discharge.

NIOBRARA RIVER BASIN

McGINLEY-STOVER CANAL from Niobrara River, 00084000 - 2003

LOCATION.--NE1/4SE1/4 Sec. 25-29-56 W. near Agate

GAGE.--Continuous stage recorder and 2 ft. Parshall flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1								4.0	1.9	1.9	0	0	
2								4.4	1.9	1.7	0	0	
3								5.0	1.7	1.1	0	0	
4								4.2	1.7	0	0	0	
5								3.7	1.4	0	0	0	
6								3.4	1.2	0	.24	0	
7								3.7	.40	0	1.5	0	
8								4.6	0	0	1.5	0	
9								3.9	0	0	1.5	0	
10								3.6	0	0	1.6	0	
11								3.6	0	0	1.5	0	
12								2.1	0	0	1.4	0	
13								0	0	0	1.2	0	
14								0	0	0	1.2	0	
15								0	0	0	.46	0	
16								0	0	0	0	0	
17								0	0	0	0	0	
18								0	0	0	0	0	
19								0	0	0	0	0	
20								0	0	0	0	0	
21								0	0	0	0	0	
22								0	0	.28	0	0	
23								0	0	2.2	0	0	
24								1.7	0	2.2	0	0	
25								4.0	0	2.1	0	0	
26								3.8	1.4	2.1	0	0	
27								3.4	2.1	2.1	0	0	
28								3.6	2.1	1.9	0	0	
29								4.0	1.8	1.9	0	0	
30								4.2	1.4	1.9	0	0	
31		-----			-----		-----	1.8	-----	0	0	-----	
TOTAL								24.7	56.8	26.88	4.7	12.10	0
MEAN								2.74	1.83	.90	.15	.39	0
MAX								4.2	5.0	2.2	1.9	1.6	0
MIN								0	0	0	0	0	0
AC-FT								49	113	53	9.3	24	0
CAL YEAR 2002	MAX	4.4	MIN	0	AC-FT	344							
WTR YEAR 2003	MAX	5.0	MIN	0	AC-FT	248							

NIOBRARA RIVER BASIN

COOK CANAL NO. 1 from Niobrara River, 00029000 - 2003

LOCATION.--SE1/4NE1/4 Sec. 2-28-56 W.

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - 1982, 1985 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	1.4	0	0	0	0
2	0	0	0	0	0	0	0	1.3	0	0	0	0
3	0	0	0	0	0	0	0	1.2	0	0	0	0
4	0	0	0	0	0	0	0	1.2	0	0	0	0
5	0	0	0	0	0	0	0	1.3	0	0	0	0
6	0	0	0	0	0	0	0	1.2	0	0	0	0
7	0	0	0	0	0	0	0	1.2	0	0	0	0
8	0	0	0	0	0	0	0	1.3	0	0	0	0
9	0	0	0	0	0	0	0	1.4	0	0	0	0
10	0	0	0	0	0	0	0	1.2	0	0	0	0
11	0	0	0	0	0	0	0	1.2	0	0	0	0
12	0	0	0	0	0	0	0	1.3	0	0	0	0
13	0	0	0	0	0	0	0	1.5	0	0	0	0
14	0	0	0	0	0	0	0	1.1	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	.60E	0	0	0	0	0
19	0	0	0	0	0	0	1.2 E	0	0	0	0	0
20	0	0	0	0	0	0	1.3 E	0	0	0	0	0
21	0	0	0	0	0	0	1.2 E	0	0	0	0	0
22	0	0	0	0	0	0	.22E	0	0	0	0	0
23	0	0	0	0	0	0	.98	0	0	0	0	0
24	0	0	0	0	0	0	1.7	0	0	0	0	0
25	0	0	0	0	0	0	1.4	0	0	0	0	0
26	0	0	0	0	0	0	1.3	0	0	0	0	0
27	0	0	0	0	0	0	1.3	0	0	0	0	0
28	0	0	0	0	0	0	1.3	0	0	0	0	0
29	0	0	0	0	-----	0	1.2	0	0	0	0	0
30	0	0	0	0	-----	0	1.3	0	0	0	0	0
31	0	-----	0	0	-----	0	-----	0	-----	0	0	-----
TOTAL	0	0	0	0	0	0	15.00	17.8	0	0	0	0
MEAN	0	0	0	0	0	0	.50	.57	0	0	0	0
MAX	0	0	0	0	0	0	1.7	1.5	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	30	35	0	0	0	0
CAL YEAR 2002	MAX	0	MIN	0	AC-FT	0						
WTR YEAR 2003	MAX	1.7	MIN	0	AC-FT	65						

E indicates estimated discharge.

NIOBRARA RIVER BASIN

HARRIS-NEECE CANAL from Niobrara River, 00062000 - 2003

LOCATION.--NW1/4SE1/4 Sec. 3-28-55 W. near Agate

GAGE.--Continuous stage recorder and 30 inch cutthroat flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								12	8.8	6.8	4.2	0
2								12	9.1	7.1	3.3	0
3								12	9.2	6.5	2.6	0
4								11	9.7	6.7	2.7	0
5								11	9.8	6.4	2.4	1.9
6								10	10	7.2	3.0	6.5
7								10	11	7.0	3.2	6.1
8								5.2	11	6.1	4.3	5.8
9								0	10	6.1	4.9	6.6
10								0	0	5.7	3.8	6.7
11								0	0	5.3	3.4	6.8
12								0	0	5.1	3.8	7.3
13								0	0	5.4	4.6	3.2
14								0	0	5.2	5.4	0
15								0	0	4.8	2.3	0
16								0	0	4.2	4.2	0
17								0	5.6	3.9	5.9	0
18								0	9.3	3.5	5.6	0
19								0	9.3	4.4	0	0
20								4.4	9.3	4.2	0	0
21								10	9.3	3.0	0	0
22								10	9.1	3.9	0	0
23								9.4	9.7	3.5	0	0
24								8.5	9.8	3.8	0	
25								8.1	9.5	3.1	0	
26								9.4	8.8	3.3	0	
27								9.5	8.0	2.7	0	
28								8.4	7.4	3.4	0	
29					-----		1.9	7.8	7.1	5.0	0	
30					-----		11	7.6	7.0	4.9	0	
31		-----			-----		-----	8.2	-----	4.5	0	-----
TOTAL							12.9	184.5	207.8	152.7	69.6	50.9
MEAN							6.45	5.95	6.93	4.93	2.25	2.21
MAX							11	12	11	7.2	5.9	7.3
MIN							1.9	0	0	2.7	0	0
AC-FT							26	366	412	303	138	101
CAL YEAR 2002	MAX	13	MIN	0	AC-FT	1,610						
WTR YEAR 2003	MAX	12	MIN	0	AC-FT	1,350						

NIOBRARA RIVER BASIN

LABELLE CANAL from Niobrara River, 00078000 - 2003

LOCATION.--NW1/4NW1/4 Sec. 6-28-54 W. near Agate

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	.89	0	0	0
2							0	0	.91	0	0	0
3							0	0	.90	0	0	0
4							.05	0	.95	0	0	0
5							.86	0	.94	0	0	0
6							1.4	.45	.95	0	0	0
7							1.4	.94	.98	0	0	0
8							1.3	1.2	1.0	0	0	0
9							1.1	1.1	1.0	0	0	0
10							.76	1.0	1.1	0	0	0
11							.59	1.1	1.2	0	0	0
12							.55	1.1	1.3	0	0	0
13							.51	1.0	1.6	0	0	0
14							.47	.99	1.6	0	0	0
15							.55	1.0	1.6	0	0	0
16							.60	1.0	1.5	0	0	0
17							.65	1.0	1.4	0	0	0
18							.66	1.0	1.2	0	0	0
19							.63	1.0	.98	0	0	0
20							.60	1.7	.84	0	0	0
21							.55	1.7	.76	0	0	0
22							.52	1.3	.73	0	0	0
23							.55	.99	.75	0	0	0
24							.56	.94	.25	0	0	0
25						0	.51	.96	0	0	0	0
26						0	.48	.99	0	0	0	0
27						0	.45	.94	0	0	0	0
28						0	.44	.93	0	0	0	0
29					-----	0	.68	.92	0	0	0	0
30					-----	0	0	.88	0	0	0	0
31		-----			-----	0	-----	.89	-----	0	0	-----
TOTAL						0	17.42	27.02	25.33	0	0	0
MEAN						0	.58	.87	.84	0	0	0
MAX						0	1.4	1.7	1.6	0	0	0
MIN						0	0	0	0	0	0	0
AC-FT						0	35	54	50	0	0	0
CAL YEAR 2002	MAX	0	MIN	0	AC-FT	0						
WTR YEAR 2003	MAX	1.7	MIN	0	AC-FT	138						

NIOBRARA RIVER BASIN

METTLEN CANAL from Niobrara River, 00089000 - 2003

LOCATION.--NW1/4NE1/4 Sec. 4-28-54 W. near Agate

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	3.7	.52	.39	0
2	0	0	0	0	0	0	0	0	4.5	.43	.43	0
3	0	0	0	0	0	0	0	0	4.0	.31	1.1	0
4	0	0	0	0	0	0	0	0	3.4	.28	1.3	0
5	0	0	0	0	0	0	0	0	3.3	.30	1.2	0
6	0	0	0	0	0	0	0	0	3.3	.17	.77	0
7	0	0	0	0	0	0	0	0	4.3	.16	.98	0
8	0	0	0	0	0	0	0	.96	3.2	.38	2.0	0
9	0	0	0	0	0	0	0	2.8	0	.10	2.8	0
10	0	0	0	0	0	0	0	1.7	0	.20	3.0	0
11	0	0	0	0	0	0	0	1.9	0	.01	2.1	0
12	0	0	0	0	0	0	0	1.7	0	0	.34	0
13	0	0	0	0	0	0	0	1.3	0	0	0	0
14	0	0	0	0	0	0	0	.98	0	0	0	0
15	0	0	0	0	0	0	0	.86	0	0	0	0
16	0	0	0	0	0	0	0	.94	0	0	0	0
17	0	0	0	0	0	0	0	1.1	0	0	0	0
18	0	0	0	0	0	0	0	1.3	0	0	0	0
19	0	0	0	0	0	0	0	1.2	0	0	0	0
20	0	0	0	0	0	0	0	1.0	0	0	0	0
21	0	0	0	0	0	0	0	1.1	0	0	0	0
22	0	0	0	0	0	0	0	.29	0	0	0	0
23	0	0	0	0	0	0	0	.10	0	0	0	0
24	0	0	0	0	0	0	0	.03	0	.07	0	0
25	0	0	0	0	0	0	0	0	0	.10	0	0
26	0	0	0	0	0	0	0	1.6	0	0	0	0
27	0	0	0	0	0	0	0	3.7	0	0	0	0
28	0	0	0	0	0	0	0	2.8	0	0	0	0
29	0	0	0	0	-----	0	3.0E	2.4	0	0	0	0
30	0	0	0	0	-----	0	0	2.9	.38	0	0	0
31	0	-----	0	0	-----	0	-----	2.5	-----	.04	0	-----
TOTAL	0	0	0	0	0	0	3.0	35.16	30.08	3.07	16.41	0
MEAN	0	0	0	0	0	0	.10	1.13	1.00	.099	.53	0
MAX	0	0	0	0	0	0	3.0	3.7	4.5	.52	3.0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	6.0	70	60	6.1	33	0
CAL YEAR 2002	MAX	6.1	MIN	0	AC-FT	476						
WTR YEAR 2003	MAX	4.5	MIN	0	AC-FT	174						

E indicates estimated discharge.

NIOBRARA RIVER BASIN

BENNETT-KAY CANAL from Niobrara River, 00013000 - 2003

LOCATION.--SE1/4SE1/4 Sec. 1-28-54 W. near Agate

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1958 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	3.5	1.7	1.9	0	0
2	0	0	0	0	0	0	0	3.3	2.1	1.8	0	0
3	0	0	0	0	0	0	0	.83	2.2	1.7	0	0
4	0	0	0	0	0	0	0	0	1.9	1.7	0	0
5	0	0	0	0	0	0	0	0	.57	1.6	.34	0
6	0	0	0	0	0	0	0	0	0	1.6	1.4	0
7	0	0	0	0	0	0	0	0	0	1.6	1.3	0
8	0	0	0	0	0	0	0	0	0	1.5	1.3	0
9	0	0	0	0	0	0	0	0	0	1.5	1.6	0
10	0	0	0	0	0	0	0	0	0	.48	1.4	0
11	0	0	0	0	0	0	0	0	0	0	1.3	0
12	0	0	0	0	0	0	0	0	0	0	1.3	0
13	0	0	0	0	0	0	0	0	0	0	1.1	0
14	0	0	0	0	0	0	0	0	0	0	.99	0
15	0	0	0	0	0	0	1.1	0	0	0	.92	0
16	0	0	0	0	0	0	4.7	0	0	0	.90	0
17	0	0	0	0	0	0	4.5	0	0	0	1.1	0
18	0	0	0	0	0	0	4.2	0	0	0	1.9	0
19	0	0	0	0	0	0	3.8	0	0	0	1.4	0
20	0	0	0	0	0	0	3.7	0	.46	0	1.1	0
21	0	0	0	0	0	0	3.5	0	2.0	0	0	1.3
22	0	0	0	0	0	0	3.4	1.3	.70	0	0	2.2
23	0	0	0	0	0	0	3.3	2.9	0	0	0	2.3
24	0	0	0	0	0	0	3.4	2.8	.72	0	0	2.3
25	0	0	0	0	0	0	3.4	2.5	2.3	0	0	2.3
26	0	0	0	0	0	0	3.3	2.3	2.1	0	0	2.3
27	0	0	0	0	0	0	3.2	2.0	2.0	0	0	2.3
28	0	0	0	0	0	0	3.1	1.6	1.9	0	0	2.3
29	0	0	0	0	-----	0	3.1	1.5	.34	0	0	2.3
30	0	0	0	0	-----	0	2.4	1.6	1.5	1.2	0	2.4
31	0	-----	0	0	-----	0	-----	1.6	-----	1.5	0	-----
TOTAL	0	0	0	0	0	0	54.1	27.73	22.49	18.08	19.35	22.0
MEAN	0	0	0	0	0	0	1.80	.89	.75	.58	.62	.73
MAX	0	0	0	0	0	0	4.7	3.5	2.3	1.9	1.9	2.4
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	107	55	45	36	38	44
CAL YEAR 2002	MAX	3.0	MIN	0	AC-FT	207						
WTR YEAR 2003	MAX	4.7	MIN	0	AC-FT	325						

NIOBRARA RIVER BASIN

MOORE - KAY CANAL from Niobrara River, 00104000 - 2003

LOCATION.--SE1/4NE1/4 Sec. 9-28-53 W. near Marsland

GAGE.--Continuous stage recorder and 2 ft. flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	2.7
2	0	0	0	0	0	0	.50E	0	0	0	0	2.6
3	0	0	0	0	0	0	.54	0	0	0	0	2.4
4	0	0	0	0	0	0	.47	0	.85	0	0	2.5
5	0	0	0	0	0	0	.48	0	1.5	0	0	2.4
6	0	0	0	0	0	0	.73	0	1.6	0	0	2.4
7	0	0	0	0	0	0	.89	0	2.0	0	0	2.3
8	0	0	0	0	0	0	1.1	0	1.9	0	0	2.1
9	0	0	0	0	0	0	1.4	0	2.0	0	0	1.4
10	0	0	0	0	0	0	1.2	0	2.0	0	0	0
11	0	0	0	0	0	0	.87	0	2.3	0	0	0
12	0	0	0	0	0	0	.44	0	2.2	0	0	0
13	0	0	0	0	0	0	.23	0	2.4	0	0	0
14	0	0	0	0	0	0	.07	0	3.7	0	0	0
15	0	0	0	0	0	0	0	0	5.0	0	0	0
16	0	0	0	0	0	0	0	0	4.8	0	0	0
17	0	0	0	0	0	0	0	0	4.8	0	0	0
18	0	0	0	0	0	0	0	0	1.2	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	.02	0
24	0	0	0	0	0	0	0	0	0	0	.67	0
25	0	0	0	0	0	0	0	0	0	0	1.1	0
26	0	0	0	0	0	0	0	0	0	0	1.0	0
27	0	0	0	0	0	0	0	0	0	0	1.0	0
28	0	0	0	0	0	0	0	0	0	0	1.0	0
29	0	0	0	0	-----	0	0	0	0	0	1.0	0
30	0	0	0	0	-----	0	0	0	0	0	1.3	0
31	0	-----	0	0	-----	0	-----	0	-----	0	2.3	-----
TOTAL	0	0	0	0	0	0	8.92	0	38.25	0	9.39	20.8
MEAN	0	0	0	0	0	0	.30	0	1.28	0	.30	.69
MAX	0	0	0	0	0	0	1.4	0	5.0	0	2.3	2.7
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	18	0	76	0	19	41
CAL YEAR 2002	MAX	3.4	MIN	0	AC-FT	205						
WTR YEAR 2003	MAX	5.0	MIN	0	AC-FT	153						

E indicates estimated discharge.

NIOBRARA RIVER BASIN

GEO. HITSHEW CANAL from Niobrara river, 00063000 - 2003

LOCATION.--NE1/4SE1/4 Sec. 6-28-52 W. near Marsland

GAGE.--Continuous stage recorder and 30 inch cutthroat flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

No water diverted in 2003.												
CAL YEAR 2002	MAX	1.1	MIN	0	AC-FT	15						

NIOBRARA RIVER BASIN

McLAUGHLIN CANAL from Niobrara River, 00086000 - 2003

LOCATION.--NW1/4SE1/4 Sec. 9-28-52 W. near Marsland

GAGE.--Continuous stage recorder and 30 inch cutthroat flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	0	0	0	0	0	0	3.9	1.6	2.8	1.0	0
2	5.0	0	0	0	0	0	0	3.7	1.9	2.5	.86	0
3	4.4	0	0	0	0	0	0	3.6	1.9	2.2	.88	.03
4	3.6	0	0	0	0	0	0	3.5	1.8	2.0	.88	.25
5	2.0	0	0	0	0	0	0	3.4	1.7	1.8	.85	.21
6	1.6	0	0	0	0	0	0	3.4	1.6	1.9	.76	.23
7	1.6	0	0	0	0	0	0	3.4	1.8	1.8	.53	.06
8	1.6	0	0	0	0	0	0	3.4	1.8	1.9	.39	.16
9	1.7	0	0	0	0	0	0	3.4	1.8	1.8	.64	.51
10	1.6	0	0	0	0	0	0	3.2	2.4	1.6	.67	.85
11	1.5	0	0	0	0	0	0	2.7	2.9	1.4	.54	1.2
12	1.5	0	0	0	0	0	2.4	2.0	3.2	1.5	.33	1.1
13	1.6	0	0	0	0	0	5.4	.95	4.1	1.9	.08	1.0
14	1.6	0	0	0	0	0	5.4	.13	5.0	2.0	0	1.0
15	1.7	0	0	0	0	0	5.3	0	5.1	1.8	0	1.0
16	1.7	0	0	0	0	0	5.2	0	4.8	1.4	0	.61
17	1.0E	0	0	0	0	0	4.6E	0	5.1	1.2	0	0
18	0	0	0	0	0	0	4.5E	.62	4.6	1.1	.11	0
19	0	0	0	0	0	0	4.6E	1.0	4.1	1.3	.23	0
20	0	0	0	0	0	0	4.6E	.96	4.0	1.4	.02	0
21	0	0	0	0	0	0	4.6E	.99	3.9	1.3	0	0
22	0	0	0	0	0	0	4.7E	.89	3.8	1.2	0	0
23	0	0	0	0	0	0	4.7E	.85	3.7	1.2	0	0
24	0	0	0	0	0	0	4.9	.80	4.1	1.1	0	0
25	0	0	0	0	0	0	4.8	.63	3.9	1.1	0	0
26	0	0	0	0	0	2.3	4.8	.58	3.6	.93	0	0
27	0	0	0	0	0	2.3	4.5	.48	3.4	.88	0	0
28	0	0	0	0	0	2.3	4.3	.45	3.1	1.1	0	0
29	0	0	0	0	-----	1.5	4.1	.35	2.9	1.1	0	0
30	0	0	0	0	-----	.42	4.0	.25	2.9	1.1	0	0
31	0	-----	0	0	-----	0	-----	.97	-----	1.1	0	-----
TOTAL	38.8	0	0	0	0	8.82	87.4	50.50	96.5	47.41	8.77	8.21
MEAN	1.25	0	0	0	0	.30	2.91	1.63	3.22	1.53	.28	.29
MAX	5.1	0	0	0	0	2.3	5.4	3.9	5.1	2.8	1.0	1.2
MIN	0	0	0	0	0	0	0	0	1.6	.88	0	0
AC-FT	77	0	0	0	0	17	173	100	191	94	17	16
CAL YEAR 2002	TOTAL	208.73	MEAN	.57	MAX	5.1	MIN	0	AC-FT	414		
WTR YEAR 2003	TOTAL	346.41	MEAN	.96	MAX	5.4	MIN	0	AC-FT	687		

NIOBRARA RIVER BASIN

EXCELSIOR CANAL from Niobrara River, 00046000 - 2003

LOCATION.--SE1/4NE1/4 Sec. 10-28-52 W. near Marsland

GAGE.--Continuous stage recorder and 28 inch cutthroat flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								2.5	.1	1.0	0	0
2								2.7	1.4	.9	0	0
3								2.7	1.6	.4	0	0
4								2.5	1.5	0	0	0
5								2.5	1.2	0	0	0
6								2.5	.4	0	0	0
7								2.5	.7	0	0	0
8								2.8	1.1	0	0	0
9								3.4	.8	0	0	0
10								3.3	.5	0	0	0
11								3.5	0	0	0	0
12								3.5	0	0	0	0
13								3.2	0	0	0	0
14								3.2	0	0	0	0
15								3.2	0	0	0	0
16								3.2	0	0	0	0
17								3.0	0	0	0	0
18								2.9	.4	0	0	0
19								2.8	1.2	0	0	0
20								2.8	1.6	0	0	0
21								2.8	1.5	0	0	0
22								2.7	1.4	0	0	0
23								2.5	1.4	0	0	0
24								2.5	1.6	0	0	0
25								2.2	1.7	0	0	0
26								2.0	1.7	0	0	0
27								1.9	1.6	0	0	0
28								1.6	1.3	0	0	0
29					-----			1.4	1.2	0	0	0
30					-----			1.0	1.1	0	0	0
31		-----			-----		-----	.5	-----	0	0	-----
TOTAL								79.8	27.0	2.3	0	0
MEAN								2.6	.9	.1	0	0
MAX								3.5	1.7	1.0	0	0
MIN								.5	0	0	0	0
AC-FT								158	53.6	4.6	0	0
CAL YEAR 2002	MAX	2.0	MIN	0	AC-FT	71.0						
WTR YEAR 2003	MAX	3.5	MIN	0	AC-FT	216						

NIOBRARA RIVER BASIN

HUGHES CANAL from Niobrara River, 00069000 - 2003

LOCATION.--SW1/4SE1/4 Sec. 1-28-52 W. near Marsland

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2000 TO SEP 2001

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
No water diverted in 2003.												
CAL YEAR 2002	MAX	3.0	MIN	0	AC-FT	31						

NIOBRARA RIVER BASIN

PIONEER CANAL from Niobrara River, 00123000 - 2003

LOCATION.--NE1/4NE1/4 Sec. 36-29-51 W. near Marsland

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - 1982, 1986 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									4.6	0	0	0
2									4.4	0	0	0
3									4.1	0	0	0
4									4.0	0	0	0
5									4.0	0	0	0
6									4.0	0	0	0
7									4.1	0	0	0
8								0	4.0	0	0	0
9								0	4.0	0	0	0
10								0	3.9	0	0	0
11								0	3.9	0	0	.11
12								0	3.8	0	0	.71
13								0	3.7	0	0	.86
14								0	3.6	0	0	.84
15								0	3.5	0	0	.86
16								0	3.5	0	0	.86
17								.18	3.6	0	0	.88
18								2.1	3.7	0	0	.92
19								2.1	3.7	0	0	.92
20								2.1	3.7	0	0	.94
21								2.2	3.9	0	0	.99
22								2.4	3.8	0	0	1.0
23								2.6	4.0	0	0	1.0
24								2.9	4.0	0	0	1.1
25								3.3	3.9	0	0	1.1
26								3.7	3.9	0	0	1.1
27								4.0	3.8	0	0	1.1
28								4.0	2.4	0	0	1.1
29					-----			4.4	.68	0	0	1.1
30					-----			4.7	.13	0	0	1.2
31		-----			-----		-----	4.6	-----	0	0	-----
TOTAL								45.28	108.31	0	0	18.69
MEAN								1.89	3.61	0	0	.62
MAX								4.7	4.6	0	0	1.2
MIN								0	.13	0	0	0
AC-FT								90	215	0	0	37
CAL YEAR 2002	MAX	4.7	MIN	0	AC-FT	620						
WTR YEAR 2003	MAX	4.7	MIN	0	AC-FT	342						

NIOBRARA RIVER BASIN

NIOBRARA RIVER above Box Butte Reservoir, 06454500 - 2003

LOCATION.--NE1/4 Sec. 27-29-50 W., Dawes County, Lat. 42° 27' 35", Long. 103° 10' 16", on right bank 1 mile upstream from high-water line of Box Butte Reservoir and 6 miles east of Marsland.

DRAINAGE AREA.--Approximately 1,400 square miles.

GAGE.--Continuous stage recorder. Gage datum 4,012.47 feet above sea level.

PERIOD OF RECORD.--Oct. 1946 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 4,950 cubic feet per second July 28, 1951, gage height 10.30 feet; minimum daily discharge 1.6 cubic feet per second September 26, 1953.

EXTREMES FOR CURRENT YEAR.--Peak discharge 43 cubic feet per second March 20, gage height 3.58 feet; minimum daily discharge 5.8 cubic feet per second August 15.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	14	20	20	25	23E	39	25	13	12	8.1	9.6
2	11	14	19	19	26	23	36	24	14	12	8.0	9.3
3	11	15	22	19	25	25	35	24	15	11	8.0	9.0
4	11	15	22	18	26	25	34	25	14	11	8.0	9.0
5	11	15	21	18	23	24	33	23	14	11	7.6	8.9
6	11	15	19	20	21	23	33	22	14	10	7.4	8.7
7	11	15	19	20	21E	25	34	21	14	10	7.4	8.6
8	11	15	19	20	22E	26	35	24	15	10	7.4	8.7
9	11	15	20	19E	24E	28	35	31	13	9.6	8.0	9.0
10	10	14	19	19E	24	26	34	30	13	9.3	7.6	9.5
11	10	15	20	20E	24	26	33	31	13	9.0	7.3	7.5
12	10	14	20	19E	24	30	32	29	12	9.1	7.2	7.0
13	10	15	20	18	24	32	30	31	12	9.3	6.9	7.7
14	10	16	20	19	24	34	28	29	11	9.2	6.8	7.7
15	10	18	20	19E	24	31	26	28	10	8.9	5.8	7.6
16	10	17	21	18E	24	35	24	26	9.8	8.6	8.3	7.4
17	10	18	21	21E	25	36	22	25	10	8.8	7.5	7.7
18	11	18	21	21E	25	40	28	18	11	8.8	8.9	8.2
19	11	19	19	22	24	41	26	23	10	9.0	8.6	8.3
20	11	19	20E	21	25	41	24	22	9.8	8.7	8.4	8.3
21	11	20	20	22	25	39	23	21	10	8.3	8.2	8.1
22	11	20	20E	20E	26	37	21	21	10	8.2	8.1	8.1
23	11	19	19E	20	21	36	22	20	12	8.2	8.0	8.3
24	12	18	20E	20	20E	35	23	20	13	7.8	8.1	8.5
25	12	18	19E	20	22E	34	22	19	11	7.6	8.2	8.8
26	12	16	20E	19	24E	33	22	18	11	7.8	8.1	8.9
27	12	18	20E	20	25	36	21	18	10	8.0	7.9	8.8
28	13	18	20	22	24	36	21	15	12	8.6	7.8	8.8
29	14	21	20	23	-----	35	21	13	14	8.4	7.6	8.8
30	14	20	19	23	-----	37	23	13	14	8.3	8.4	9.7
31	14	-----	19	23	-----	37	-----	13	-----	8.2	9.5	-----
TOTAL	348	504	618	622	667	989	840	702	364.6	284.7	243.1	254.5
MEAN	11.2	16.8	19.9	20.1	23.8	31.9	28.0	22.6	12.2	9.18	7.84	8.48
MAX	14	21	22	23	26	41	39	31	15	12	9.5	9.7
MIN	10	14	19	18	20	23	21	13	9.8	7.6	5.8	7.0
AC-FT	690	1,000	1,230	1,230	1,320	1,960	1,670	1,390	723	565	482	505
CAL YEAR 2002 TOTAL		6,525.60	MEAN	17.9	MAX	47	MIN	4.1	AC-FT	12,940		
WTR YEAR 2003 TOTAL		6,436.90	MEAN	17.6	MAX	41	MIN	5.8	AC-FT	12,770		

E indicates estimated discharge.

NIOBRARA RIVER BASIN

BOX BUTTE RESERVOIR from Niobrara River, 06455000 - 2003

LOCATION.--SW1/4NE1/4 Sec. 28-29-49 W., Dawes County, near Dunlap, Lat. 42° 27' 30", Long. 103° 04' 03"

GAGE.--Reference point

PERIOD OF RECORD.--1946 - present

REMARKS.--Values from the U.S. Bureau of Reclamation Great Plains Region web page.

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,042	5,848	6,790	7,740	9,449	10,394	11,771	13,148	13,485	13,616	7,805	3,848
2	5,070	5,901	6,843	7,812	9,500	10,421	11,780	13,197	13,626	12,960	7,654	3,873
3	5,114	5,926	6,916	7,855	9,542	10,456	11,752	13,336	13,788	12,618	7,503	3,893
4	5,126	5,956	6,923	7,877	9,593	10,518	11,743	13,366	13,426	13,366	7,212	3,917
5	5,159	5,992	6,963	7,922	9,627	10,562	11,874	13,227	13,859	13,287	6,996	3,942
6	5,176	6,029	6,903	7,973	9,635	10,624	11,865	13,297	13,788	13,247	6,686	3,967
7	5,209	6,095	6,963	7,996	9,660	10,660	11,959	13,426	13,808	12,843	6,461	3,983
8	5,226	6,107	6,983	8,047	9,745	10,686	12,081	13,565	13,356	14,051	6,373	4,019
9	5,259	6,138	6,990	8,151	9,787	10,713	12,119	13,475	12,970	13,717	6,205	4,044
10	5,281	6,144	7,192	8,195	9,821	10,777	12,445	13,606	12,426	13,287	6,041	4,070
11	5,304	6,205	7,212	8,195	9,855	10,795	12,282	13,757	12,483	12,696	5,777	4,085
12	5,327	6,224	7,268	8,271	9,890	10,840	12,215	13,788	14,588	12,455	5,631	4,106
13	5,350	6,261	7,275	8,310	9,838	10,913	12,215	13,808	14,484	12,167	5,452	4,106
14	5,372	6,299	7,323	8,340	9,720	10,976	12,311	13,899	14,236	11,969	5,187	4,121
15	5,389	6,317	7,392	8,356	9,838	11,058	12,387	13,899	13,909	11,482	4,982	4,137
16	5,418	6,361	7,448	8,409	9,864	11,103	12,282	13,636	13,687	11,352	4,792	4,147
17	5,441	6,398	7,496	8,555	9,916	11,223	12,244	13,909	13,737	11,094	4,465	4,193
18	5,464	6,436	7,496	8,586	9,950	11,306	12,387	13,889	13,879	10,822	4,245	4,204
19	5,493	6,473	7,546	8,609	9,993	11,399	12,349	13,980	13,287	10,536	3,952	4,224
20	5,510	6,518	7,553	8,672	10,080	11,454	12,378	13,899	13,257	10,270	3,819	4,245
21	5,538	6,557	7,589	8,688	10,123	11,176	12,349	13,737	12,311	9,907	3,743	4,261
22	5,493	6,596	7,625	8,696	10,158	11,040	12,416	13,078	12,062	9,584	3,666	4,282
23	5,584	6,602	7,690	8,744	10,201	11,067	12,435	13,029	12,100	9,457	3,590	4,298
24	5,613	6,622	7,697	8,862	10,218	11,076	12,696	13,048	11,865	9,218	3,590	4,313
25	5,649	6,699	7,683	8,878	10,244	11,436	13,138	13,148	13,757	9,095	3,631	4,334
26	5,678	6,660	7,420	9,046	10,261	11,602	13,118	13,009	13,545	8,894	3,672	4,350
27	5,707	6,667	7,654	9,161	10,314	11,500	13,167	12,775	13,727	8,720	3,517	4,355
28	5,742	6,699	7,582	9,210	10,359	11,584	13,098	13,376	13,727	8,379	3,710	4,371
29	5,760	6,732	7,726	9,267	-----	11,696	12,980	13,707	12,951	8,121	3,725	4,392
30	5,777	6,790	7,719	9,341	-----	11,761	13,118	13,585	13,277	8,010	3,760	4,434
31	5,818	-----	7,726	9,390	-----	11,818	-----	14,000	-----	7,922	3,814	-----
MAX	5,818	6,790	7,726	9,390	10,359	11,818	13,167	14,000	14,588	14,051	7,805	4,434
MIN	5,042	5,848	6,790	7,740	9,449	10,394	11,743	12,775	11,865	7,922	3,517	3,848
CHANGE		972	936	1,664	969	1,459	1,300	882	-723	-5,355	-4,108	620
WTR YEAR 2003			MEAN	9,006	MAX	14,588	MIN	3,517				

NIOBRARA RIVER BASIN

NIOBRARA RIVER below Box Butte Reservoir, 06455500 - 2003

LOCATION.--SE1/4 Sec. 28-29-49 W., Dawes County, Lat. 42° 27' 23", Long. 103° 04' 10", on left bank 0.2 mile downstream from Box Butte Reservoir and nine miles north of Hemingford.

DRAINAGE AREA.--Approximately 460 square miles.

GAGE.--Continuous stage recorder. Gage datum is 3,950.08 feet above sea level.

PERIOD OF RECORD.--Oct. 1946 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Flow completely regulated from Box Butte Reservoir. Records are good, except discharges below 2.0 cfs are fair and estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 616 cubic feet per second July 2, 1968, gage height 5.04 feet; minimum daily discharge 0.10 cubic feet per second for many days in 1947 and 1951.

EXTREMES FOR CURRENT YEAR.--Peak discharge 151 cubic feet per second July 16, gage height 4.14 feet; minimum daily discharge 0.47 cubic feet per second on August 27.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	.54	.54	.52	.54	.57	.65	.76	.70	.70	92	.52
2	.54	.54	.54	.52	.54	.57	.64	.70	.73	.70	87	.49
3	.54	.54	.54	.52	.54	.57	.64	.70	.73	.70	87	.62
4	.54	.54	.54	.52	.57	.57	.67	.67	.70	.68	95	1.5
5	.54	.54	.54	.52	.57	.57	.70	.67	.70	.64	108	2.7
6	.54	.54	.54	.52	.57	.59	.70	.67	.73	.64	115	3.4
7	.54	.57	.54	.52	.57	.59	.70	.67	.76	.63	116	3.0
8	.54	.57	.54	.52	.57	.57	.70	.82	.73	66	107	.62
9	.54	.57	.54	.52	.57	.57	.70	.73	.70	90	98	.64
10	.54	.57	.54	.52	.57	.59	.67	.73	.70	106	97	.59
11	.54	.57	.54	.52	.57	.59	.67	.75	.76	125	99	.57
12	.52	.57	.54	.52	.54	.59	.67	.73	.73	146	99	.57
13	.54	.57	.54	.52	.54	.59	.64	.73	.70	145	93	.54
14	.54	.57	.54	.52	.57	.59	.64	.73	.70	139	98	.59
15	.52	.57	.54	.52	.54	.59	.64	.70	.70	140	105	.64
16	.54	.57	.54	.52	.54	.58E	.64	.70	.67	145	104	.62E
17	.52	.54	.54	.54	.57	.58E	.67	.73	.70	139	113	.60E
18	.52	.54	.54	.54	.54	.57E	.96	.73	.70	139	121	.54E
19	.52	.54	.54	.54	.54	.58E	.86	.70	.70	139	123	.50E
20	.52	.54	.54	.54	.54	.59E	.76	.70	.70	138	125	.50E
21	.52	.54	.54	.54	.57	.60E	.70	.70	.70	140	122	.60E
22	.54	.54	.54	.54	.57	.62E	.73	.73	.70	143	105	.62E
23	.54	.57	.54	.54	.57	.64	.76	.73	.76	138	82	.62E
24	.54	.59	.54	.54	.57	.64	.73	.73	.76	128	.72	.59
25	.54	.62	.57	.54	.57	.64	.70	.73	.73	117	.55	.58E
26	.54	.59	.52	.54	.57	.63E	.73	.73	.70	112	.54	.58E
27	.54	.59	.52	.54	.57	.62E	.70	.73	.70	112	.52	.74E
28	.54	.62	.52	.54	.57	.64E	.70	.73	.70	115	.49	.62
29	.54	.59	.52	.54	-----	.66E	.70	.73	.70	121	.47	.60E
30	.54	.54	.52	.54	-----	.67	.79	.70	.70	113	.49	.60E
31	.54	-----	.52	.54	-----	.67	-----	.67	-----	102	.54	-----
TOTAL	16.60	16.89	16.65	16.42	15.66	18.64	21.16	22.23	21.39	3,002.69	2,395.32	25.90
MEAN	.54	.56	.54	.53	.56	.60	.71	.72	.71	96.9	77.3	.86
MAX	.54	.62	.57	.54	.57	.67	.96	.82	.76	146	125	3.4
MIN	.52	.54	.52	.52	.54	.57	.64	.67	.67	.63	.47	.49
AC-FT	33	34	33	33	31	37	42	44	42	5,960	4,750	51
CAL YEAR 2002 TOTAL		6,287.04	MEAN	17.2	MAX	161	MIN	.52	AC-FT	12,470		
WTR YEAR 2003 TOTAL		5,589.55	MEAN	15.3	MAX	146	MIN	.47	AC-FT	11,090		

E indicates estimated discharge.

NIOBRARA RIVER BASIN

MONTAGUE CANAL from Niobrara River, 00102000 - 2003

LOCATION.--SW1/4NW1/4 Sec. 27-29-48 W. near Dunlap

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - 1957, 1959 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

No water diverted in 2003.												
CAL YEAR 2002	MAX	0	MIN	0	AC-FT	0						

NIOBRARA RIVER BASIN

LICHTE CANAL from Niobrara River, 00081000 - 2003

LOCATION.--NW1/4SW1/4 Sec. 26-29-48 W. near Dunlap

GAGE.--Continuous stage recorder and 3 ft. Parshall flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	2.0E	0	0
21	0	0	0	0	0	0	0	0	0	2.9E	0	0
22	0	0	0	0	0	0	0	0	0	2.9E	0	0
23	0	0	0	0	0	0	0	0	0	2.9E	0	0
24	0	0	0	0	0	0	0	0	0	2.9E	0	0
25	0	0	0	0	0	0	0	0	0	2.5	0	0
26	0	0	0	0	0	0	0	0	0	2.8	0	0
27	0	0	0	0	0	0	0	0	0	2.9	0	0
28	0	0	0	0	0	0	0	0	0	2.9	0	0
29	0	0	0	0	-----	0	0	0	0	2.4	0	0
30	0	0	0	0	-----	0	0	0	0	2.9	0	0
31	0	-----	0	0	-----	0	-----	0	-----	1.0	0	-----
TOTAL	0	0	0	0	0	0	0	0	0	31.0	0	0
MEAN	0	0	0	0	0	0	0	0	0	1.00	0	0
MAX	0	0	0	0	0	0	0	0	0	2.9	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	61	0	0
CAL YEAR 2002	MAX	3.8	MIN	0	AC-FT	212						
WTR YEAR 2003	MAX	2.9	MIN	0	AC-FT	61						

E indicates estimated discharge.

NIOBRARA RIVER BASIN

MIRAGE FLATS CANAL from Niobrara River, 00100000 - 2003

LOCATION.--SE1/4NW1/4 Sec 26-29-48 W. near Dunlap

GAGE.--Continuous stage recorder and 10 ft. Parshall flume

PERIOD OF RECORD.--1948 - present

REMARKS.--Values furnished by United States Bureau of Reclamation.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											101	
2											92	
3											93	
4											90	
5											95	
6											100	
7											105	
8										30	103	
9										80	93	
10										83	90	
11										105	85	
12										125	92	
13										124	79	
14										135	77	
15										129	87	
16										140	87	
17										128	96	
18										129	114	
19										130	113	
20										128	118	
21										123	118	
22										124	108	
23										132	86	
24										123	14	
25										116		
26										108		
27										112		
28										111		
29					-----					120		
30					-----					125		
31		-----			-----		-----		-----	109		-----
TOTAL										2,769	2,236	
MEAN										115	93.2	
MAX										140	118	
MIN										30	14	
AC-FT										5,490	4,440	
CAL YEAR 2002	MAX	153	MIN	38	AC-FT	12,460						
WTR YEAR 2003	MAX	140	MIN	14	AC-FT	9,930						

NIOBRARA RIVER BASIN

POTMESIL CANAL from Niobrara River, 00124000 - 2003

LOCATION.--SE1/4 NW1/4 Sec. 26-29-48 W. near Dunlap

GAGE.--Continuous stage recorder and 3 ft. Parshall flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	7.4	4.8E	5.5E	6.8
2	0	0	0	0	0	0	0	0	2.4	4.8E	5.4	6.7
3	0	0	0	0	0	0	0	0	0	4.8	5.8	6.8
4	0	0	0	0	0	0	0	0	0	4.9	6.1	6.7
5	0	0	0	0	0	0	0	0	0	5.0	6.3	6.8
6	0	0	0	0	0	0	0	0	0	5.2	6.4	6.7
7	0	0	0	0	0	0	0	0	0	6.8	6.4	6.7
8	0	0	0	0	0	0	0	0	0	6.2	6.2	6.7
9	0	0	0	0	0	0	0	0	0	5.3	5.4	2.1
10	0	0	0	0	0	0	0	0	0	6.0	5.1	0
11	0	0	0	0	0	0	0	0	0	6.8	5.2	
12	0	0	0	0	0	0	0	0	0	7.2	5.8	
13	0	0	0	0	0	0	0	0	0	7.3	5.3	
14	0	0	0	0	0	0	0	0	0	7.3	5.2	
15	0	0	0	0	0	0	0	0	0	6.2	5.6	
16	0	0	0	0	0	0	0	0	0	6.2	5.9	
17	0	0	0	0	0	0	0	0	0	5.7	5.8	
18	0	0	0	0	0	0	0	0	0	5.6	6.8	
19	0	0	0	0	0	0	0	0	0	5.5	6.5	
20	0	0	0	0	0	0	0	0	0	5.5	6.5	
21	0	0	0	0	0	0	0	0	0	5.6	6.6	
22	0	0	0	0	0	0	0	0	0	5.8	5.5	
23	0	0	0	0	0	0	0	0	0	5.9	4.7	
24	0	0	0	0	0	0	0	0	0	5.5	5.4	
25	0	0	0	0	0	0	0	0	0	5.4	6.7	
26	0	0	0	0	0	0	0	0	0 E	5.3	6.9	
27	0	0	0	0	0	0	0	0	0 E	5.5	6.9	
28	0	0	0	0	0	0	0	0	0 E	5.6	6.7	
29	0	0	0	0	-----	0	0	6.7	1.0E	6.1	6.7	
30	0	0	0	0	-----	0	0	0	4.5E	5.7	6.8	
31	0	-----	0	0	-----	0	-----	7.2	-----	5.6E	6.8	-----
TOTAL	0	0	0	0	0	0	0	13.9	15.3	179.1	186.9	56.0
MEAN	0	0	0	0	0	0	0	.48	1.02	5.78	6.03	5.60
MAX	0	0	0	0	0	0	0	7.2	7.4	7.3	6.9	6.8
MIN	0	0	0	0	0	0	0	0	0	4.8	4.7	0
AC-FT	0	0	0	0	0	0	0	28	30	355	371	111
CAL YEAR 2002	MAX	7.5	MIN	0	AC-FT	1,200						
WTR YEAR 2003	MAX	7.4	MIN	0	AC-FT	895						

E indicates estimated discharge.

NIOBRARA RIVER BASIN

SNAKE RIVER at Doughboy, 06459175 - 2003

LOCATION.--NE1/4NW1/4 Sec. 2-30-34 W., Cherry County, Lat. 42°36'51", Long. 101°16'38", on left bank 21 feet downstream from centerline of Doughboy bridge, 24 miles southwest of Nenzel.

DRAINAGE AREA.--Approximately 405 square miles, about 26 square miles of contributing drainage area.

GAGE.--Continuous stage recorder. Datum of gage is 3,095.92 ft. above National Geodetic Vertical Datum of 1929. Gage Datum was 3097.92 ft. from October 1, 1988 to May 17, 1994. Before October 1, 1988, 1994 gage datum was 3,098.92 ft.

PERIOD OF RECORD.--1981 - present

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1993. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.-- Peak discharge 469 cubic feet per second June 18, 2003, gage height 2.08 feet; maximum gage height 5.92 feet, present datum, January 7, 1982, due to backwater from ice; minimum daily discharge 79 cubic feet per second March 12, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharge 469 cubic feet per second June 18, gage height 2.08 feet; minimum daily discharge 140 cubic feet per second estimated January 23.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	158	180	178	195	181	180	187	168	182	162	169
2	152	162	182	174	206	174	179	190	173	176	164	170
3	153	167	179	178	199	182	174	195	175	174	166	166
4	154	171	179	180	180	183	168	206	176	173	177	164
5	154	174	167	181	171	175	166	213	179	171	162	164
6	157	174	172	185	160E	183	171	204	177	171	159	164
7	159	178	174	182	155E	190	170	191	185	166	158	163
8	159	181	172	186	166	195	175	190	181	167	157	161
9	158	181	173	185	174	185E	188	193	175	167	165	171
10	158	178	174	175E	174	186	204	213	173	165	159	172
11	160	174	178	165E	171	187	200	206	187	162	163	167
12	158	173	177	170E	174	198	184	205	184	165	160	163
13	155	174	177	174	180	218	172	196	188	162	157	165
14	158	174	179	173	188	211	175	184	194	164	156	160
15	157	176	181	173	181	202	175	177	193	161	158	161
16	163	173	184	160E	179	190	175	176	189	158	160	163
17	160	172	192	155E	191	186	172	175	206	161	162	166
18	160	176	192	170	195	208	191	192	300	164	163	173
19	162	171	181	174	202	253	212	186	260	166	165	175
20	165	173	174	177	214	266	219	173	259	165	165	173
21	168	177	166	176	202	240	199	172	246	165	162	170
22	165	176	165	160E	193	206	180	176	237	163	162	177
23	165	175	160E	140E	180E	189	172	180	230	163	162	174
24	168	178	150E	150E	170E	184	171	176	282	161	160	165
25	167	171	155E	155E	175E	178	165	173	276	159	169	158
26	166	167	150E	160E	180E	176	167	171	271	161	170	161
27	167	160E	164	172	183	183	170	172	238	160	170	155
28	168	170	170	182	181	177	170	173	208	163	164	155
29	175	176	177	184	-----	170	166	172	191	166	163	161
30	168	178	176	184	-----	177	175	172	187	165	166	159
31	160	-----	176	187	-----	177	-----	171	-----	164	168	-----
TOTAL	4,995	5,188	5,376	5,345	5,119	6,010	5,385	5,760	6,288	5,130	5,054	4,965
MEAN	161	173	173	172	183	194	180	186	210	165	163	166
MAX	175	181	192	187	214	266	219	213	300	182	177	177
MIN	152	158	150	140	155	170	165	171	168	158	156	155
AC-FT	9,910	10,290	10,660	10,600	10,150	11,920	10,680	11,420	12,470	10,180	10,020	9,850
CAL YEAR 2002 TOTAL		63,087	MEAN	173	MAX	238	MIN	149	AC-FT	125,100		
WTR YEAR 2003 TOTAL		64,615	MEAN	177	MAX	300	MIN	140	AC-FT	128,200		

E indicates estimated discharge.

NIOBRARA RIVER BASIN

MERRITT RESERVOIR from Snake River, 06459300 - 2003

LOCATION.--SW1/4NW1/4 Sec. 29-31-30 W.

GAGE.--Reference point

PERIOD OF RECORD.--1965 - present

REMARKS.--Values furnished by Ainsworth Irrigation District

STORAGE LEVEL	ELEVATION (Feet)	CONTENT (Acre-feet)
Top of conservation pool	2946.0	74,486
Top of dead storage	2875.0	1,614

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39,520	55,310	68,560	68,560	69,110	68,830	69,110	75,080	73,630	74,780	54,140	33,410
2	39,860	55,770	68,830	68,560	69,110	68,830	68,830	75,080	73,630	74,490	53,230	33,280
3	40,400	56,490	68,830	68,560	69,110	68,830	68,830	75,370	73,630	74,200	52,660	32,820
4	40,930	56,970	68,830	68,290	69,390	68,830	68,830	75,670	74,200	74,200	51,660	32,240
5	41,460	57,450	68,560	68,560	69,390	68,830	68,560	75,670	73,910	74,200	51,010	31,800
6	42,010	57,940	68,560	68,560	69,390	68,830	68,560	75,370	73,910	73,910	51,140	31,380
7	42,560	58,420	68,560	68,560	69,110	68,830	68,830	75,370	73,910	73,630	49,280	31,100
8	43,120	58,920	68,830	68,830	69,110	68,830	68,830	75,080	73,910	75,050	48,450	31,240
9	43,490	59,410	68,830	68,830	69,110	68,830	68,830	75,080	74,200	72,770	47,830	31,240
10	44,070	60,160	68,830	68,830	69,390	68,830	68,830	75,080	74,200	72,200	47,010	31,240
11	44,640	60,660	68,830	68,560	69,110	68,830	68,830	74,780	74,200	71,340	46,610	31,240
12	45,020	60,910	68,830	68,560	69,110	68,830	68,830	75,080	74,200	70,500	46,610	31,380
13	45,420	61,420	68,830	68,560	68,830	69,110	68,830	75,080	74,200	69,950	46,410	31,660
14	45,820	61,940	68,830	68,560	68,830	69,110	68,830	75,080	74,200	69,110	46,010	31,800
15	46,410	62,450	68,830	68,830	68,830	69,110	68,830	75,080	74,200	68,290	45,620	32,090
16	47,010	62,960	68,830	68,830	68,830	69,110	68,830	74,780	74,200	67,200	44,640	32,380
17	47,420	63,480	68,830	68,830	68,830	69,110	68,830	74,780	74,200	66,390	43,870	32,680
18	48,040	64,000	68,830	68,830	68,830	69,110	68,830	74,780	74,200	65,320	42,930	32,970
19	48,450	64,530	68,830	68,830	68,830	69,670	69,950	74,780	74,200	64,530	42,010	33,410
20	49,070	64,800	68,830	69,110	68,830	69,390	70,500	74,490	74,490	63,740	41,100	33,710
21	49,500	65,320	68,830	69,110	68,830	69,670	71,060	74,490	74,490	62,960	40,220	34,170
22	49,930	65,850	68,830	69,110	69,110	69,950	71,620	74,200	74,780	61,940	39,340	34,620
23	50,580	66,120	68,830	68,830	69,110	69,950	72,190	73,630	74,780	61,170	38,830	34,930
24	51,010	66,660	68,830	68,830	68,830	69,950	72,770	74,200	75,080	60,160	38,320	35,400
25	51,660	67,200	68,560	68,830	68,830	69,670	73,340	74,200	75,080	59,170	37,330	35,870
26	52,110	67,470	68,560	68,830	68,830	69,670	73,630	73,910	74,080	58,170	36,840	36,340
27	52,560	68,020	68,560	68,830	68,830	69,670	74,200	73,910	75,370	57,450	36,190	36,840
28	53,010	68,290	68,560	68,830	68,830	69,670	74,490	73,910	75,080	56,730	34,930	37,330
29	53,680	68,290	68,560	68,830	-----	69,390	74,780	73,910	75,080	56,250	34,320	37,820
30	54,380	68,290	68,560	68,830	-----	69,110	75,080	73,910	75,080	55,770	33,710	38,490
31	54,840	-----	68,560	68,830	-----	69,110	-----	73,630	-----	55,700	33,560	-----
MAX	54,840	68,290	68,830	69,110	69,390	69,950	75,080	75,670	75,370	75,050	54,140	38,490
MIN	39,520	55,310	68,560	68,290	68,830	68,830	68,560	73,630	73,630	55,700	33,560	31,100
CHANGE	15,840	13,450	270	270	0	280	5,970	-1,450	1,450	-19,380	-22,140	4,930
CAL YEAR 2002			MEAN	60,461	MAX	74,800	MIN	28,400				
WTR YEAR 2003			MEAN	62,338	MAX	75,670	MIN	31,100				

NIOBRARA RIVER BASIN

AINSWORTH CANAL from Merritt Reservoir, 00001000 - 2003

LOCATION.--NW1/4NE1/4 Sec. 29-31-30 W. near Valentine

GAGE.--Continuous stage recorder and 15 ft. Parshall flume

PERIOD OF RECORD.--1965 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	60	78	585	380
2								0	67	128	598	498
3								0	72	200	604	530
4								0	65	248	609	529
5								0	65	281	592	467
6								0	65	304	592	335
7								0	65	367	590	335
8								0	65	409	589	331
9								0	65	422	550	302
10								0	65	456	533	272
11								0	65	487	200	211
12								0	64	506	207	169
13								0	59	522	283	140
14								0	59	558	406	139
15								0	62	578	533	118
16								0	65	585	598	125
17								0	61	588	612	125
18								19	61	594	620	109
19								125	61	575	595	91
20								102	60	577	575	91
21								102	61	579	562	85
22								89	61	578	559	76
23								60	61	598	465	71
24								60	60	614	503	40
25								60	59	620	590	0
26								60	60	618	599	0
27								60	59	601	601	0
28								60	59	437	605	0
29					-----			60	59	370	506	0
30					-----			60	65	423	332	0
31		-----			-----		-----	60	-----	533	331	-----
TOTAL								977	1,875	14,434	16,124	5,569
MEAN								31.5	62.5	466	520	186
MAX								125	72	620	620	530
MIN								0	59	78	200	0
AC-FT								1,940	3,720	28,630	31,980	11,050
CAL YEAR 2002	MAX	639	MIN	0	AC-FT	90,130						
WTR YEAR 2003	MAX	620	MIN	0	AC-FT	77,310						

NIOBRARA RIVER BASIN

SNAKE RIVER near Burge, 06459500 - 2003

LOCATION.--NE1/4 Sec. 20, T. 31N, R. 30 W., Cherry County, Lat. 42° 39' 15", Long. 100° 51' 28", at right bank 150 ft. downstream from Nebraska National Forest boundary, 2.1 miles downstream from Merritt Dam, 6.5 miles southwest of Burge, and 22 miles southwest of Valentine.

DRAINAGE AREA.--Approximately 660 square miles, of which 44 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder, datum of gage is 2,805.36 ft. above sea level (levels by U. S. Bureau of Reclamation).

PERIOD OF RECORD.--June 1947 - present

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1994. Record are good. Natural flow affected since February 1964 by storage in Merritt Reservoir (station 06459300) 2.1 miles upstream.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 3,170 cubic feet per second February 7, 1963, gage height 6.96 feet from release of storage behind a temporary construction dike. Determined from extending rating curve above 520 cubic feet per second on basis of slope-area measurement at gage height 5.39 feet. Minimum daily discharge 5.8 cubic feet per second May 24-27, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge 398 cubic feet per second May 4, gage height 2.42 feet; minimum daily discharge 8.5 cubic feet per second November 20 - 26.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	13	164	244	257	264	321	204	192	282	62	12
2	21	13	217	244	260	264	287	242	190	183	62	12
3	23	13	264	244	260	264	264	287	185	84	62	14
4	23	14	264	230	269	264	264	360	187	67	62	15
5	24	14	264	222	276	261	264	381	185	68	62	16
6	24	14	213	222	288	262	264	365	182	64	60	13
7	24	14	170	222	265	264	268	355	184	63	60	13
8	17	15	170	241	260	264	268	347	184	63	60	13
9	15	13	222	248	260	264	272	355	183	63	60	12
10	16	13	256	248	270	264	272	336	181	63	60	13
11	15	12	256	234	276	259	272	333	183	62	62	12
12	15	12	256	222	276	260	272	324	179	62	62	12
13	13	14	256	222	276	272	272	316	188	62	61	13
14	15	13	256	222	276	281	275	310	186	62	60	13
15	14	12	256	222	276	281	276	298	183	62	59	27
16	15	12	256	222	276	279	280	291	184	62	59	13
17	16	12	256	222	264	276	132	285	183	61	58	13
18	15	12	256	222	260	276	17	284	185	62	57	13
19	16	49	256	222	257	285	17	257	188	62	57	13
20	16	8.5	256	241	252	295	17	235	198	62	59	13
21	15	8.5	256	256	252	294	17	220	196	62	59	12
22	15	8.5	256	256	263	294	17	207	200	62	59	13
23	15	8.5	256	256	272	294	19	204	202	62	59	13
24	14	8.5	251	256	272	308	17	208	249	62	59	13
25	14	8.5	248	256	272	285	21	211	272	62	42	13
26	14	8.5	245	256	272	317	49	213	246	62	12	13
27	14	45	245	256	272	317	60	153	258	62	12	13
28	13	137	244	256	267	320	80	202	270	62	12	13
29	14	167	244	256	-----	321	104	206	263	62	12	13
30	14	164	244	255	-----	321	148	199	280	63	12	13
31	13	-----	244	252	-----	321	-----	197	-----	63	12	-----
TOTAL	511	856.5	7,497	7,427	7,496	8,791	5,106	8,385	6,146	2,303	1,554	404
MEAN	16.5	28.6	242	240	268	284	170	270	205	74.3	50.1	13.5
MAX	24	167	264	256	288	321	321	381	280	282	62	27
MIN	13	8.5	164	222	252	259	17	153	179	61	12	12
AC-FT	1,010	1,700	14,870	14,730	14,870	17,440	10,130	16,630	12,190	4,570	3,080	801
CAL YEAR 2002	TOTAL	48,518.5	MEAN	133	MAX	356	MIN	8.5	AC-FT	96,240		
WTR YEAR 2003	TOTAL	56,476.5	MEAN	155	MAX	381	MIN	8.5	AC-FT	112,000		

NIOBRARA RIVER BASIN

KEYA PAHA RIVER near Naper, 06464900 - 2003

LOCATION.--SE1/4SE1/4 Sec. 17-34-15 W., Boyd County, Lat. 42°55'00", Long. 99°05'50", on left upstream bank near highway bridge abutment, 3.3 miles south of Naper, and 8.8 miles upstream from mouth.

DRAINAGE AREA.--1,690 square miles (as revised in 1994 by U. S. Geological Survey).

GAGE.--Continuous stage recorder. Datum of gage is 1,680 feet above sea level, from topographic map. Non-recording gage at same site and datum before May 2, 1958.

PERIOD OF RECORD.--1957 - present

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 9,280 cubic feet per second July 1, 1962, gage height 10.91 feet; maximum gage height 13.34 feet March 23, 1960, due to backwater from ice jam; no flow July 22-30, August 10, 11, 1976, August 3, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,190 cubic feet per second May 9, gage height 7.30 feet; minimum daily discharge 7.5 cubic feet per second August 30.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	80E	76E	130E	104E	90E	115	235	83	187	27	8.4
2	46	76E	78E	130E	100E	86E	110	276	85	161	24	7.8
3	50	85	82E	135E	96E	90E	111	295	92	132	24	8.5
4	69	100	80E	135E	98E	88E	112	433	84	131	25	9.5
5	65	101	82E	140E	100E	92E	108	583	83	121	24	8.1
6	57	97	78E	140E	96E	88E	110	599	85	118	25	7.6
7	53	95	84E	140E	100E	86E	129	545	82	105	25	8.2
8	54	92	90E	135E	96E	90E	133	560	79	97	25	9.0
9	55	86	90E	120E	90E	96E	148	995	78	92	44	9.5
10	46	87	96E	100E	92E	100E	165	868	76	79	45	11
11	50	84	100E	106E	96E	96E	180	574	74	73	34	12
12	55	82	110E	110E	100E	110E	198	521	67	67	27	12
13	54	83	120E	104E	96E	130E	175	471	66	62	26	12
14	53	82	110E	100E	98E	150E	156	492	67	58	23	12
15	53	81	114E	90E	100E	200E	138	409	64	57	20	12
16	54	80	112E	84E	100E	283	128	317	62	49	16	13
17	56	79	116E	80E	104E	215	123	271	78	45	14	14
18	61	77	110E	84E	110E	223	121	234	68	44	13	17
19	60	77	100E	82E	108E	228	131	206	62	44	12	20
20	59	76	90E	80E	102E	229	134	174	56	43	14	22
21	63	78	94E	76E	106E	230	134	147	57	41	16	22
22	64	77	100E	76E	110E	241	136	137	100	39	14	23
23	67	75	110E	74E	114E	235	142	129	157	39	15	24
24	72	75	116E	76E	108E	215	174	126	324	35	13	25
25	73	72	110E	78E	96E	184	195	119	428	32	11	24
26	73	73	112E	76E	86E	163	242	120	436	29	11	24
27	76	68E	114E	80E	90E	154	224	109	488	29	9.7	25
28	80	66E	120E	84E	94E	145	193	102	382	30	9.2	26
29	81	70E	130E	90E	-----	128	165	95	288	29	8.2	29
30	95	74E	124E	92E	-----	115	184	90	233	30	7.5	31
31	88	-----	120E	92E	-----	118	-----	85	-----	30	7.6	-----
TOTAL	1,928	2,428	3,168	3,119	2,790	4,698	4,514	10,317	4,384	2,128	609.2	486.6
MEAN	62.2	80.9	102	101	99.6	152	150	333	146	68.6	19.7	16.2
MAX	95	101	130	140	114	283	242	995	488	187	45	31
MIN	46	66	76	74	86	86	108	85	56	29	7.5	7.6
AC-FT	3,820	4,820	6,280	6,190	5,530	9,320	8,950	20,460	8,700	4,220	1,210	965
CAL YEAR 2002	TOTAL	40,773.30	MEAN	112	MAX	640	MIN	9.5	AC-FT	80,870		
WTR YEAR 2003	TOTAL	40,569.80	MEAN	111	MAX	995	MIN	7.5	AC-FT	80,470		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

FORT LARAMIE CANAL from North Platte River, 00052000 - 2003

LOCATION.--SW1/4NW1/4 Sec. 11-26-65 W., Wyo.

GAGE.--Continuous stage recorder and parshall flume

PERIOD OF RECORD.--1918 - 1928, 1933 - present

REMARKS.--Values furnished by U.S. Bureau of Reclamation.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	1,210	1,340	68
2	0	0	0	0	0	0	0	0	0	1,320	1,350	0
3	0	0	0	0	0	0	0	0	0	1,370	1,340	0
4	0	0	0	0	0	0	0	0	0	1,390	1,340	0
5	0	0	0	0	0	0	0	0	0	1,410	1,340	0
6	0	0	0	0	0	0	0	0	0	1,420	1,350	0
7	0	0	0	0	0	0	0	0	0	1,430	1,370	0
8	0	0	0	0	0	0	0	0	0	1,500	1,390	0
9	0	0	0	0	0	0	0	0	0	1,500	1,430	0
10	0	0	0	0	0	0	0	0	0	1,480	1,430	0
11	0	0	0	0	0	0	0	0	0	1,470	1,420	0
12	0	0	0	0	0	0	0	0	0	1,480	1,410	0
13	0	0	0	0	0	0	0	0	0	1,500	1,400	0
14	0	0	0	0	0	0	0	0	0	1,490	1,400	0
15	0	0	0	0	0	0	0	0	0	1,480	1,420	0
16	0	0	0	0	0	0	0	0	0	1,460	1,440	0
17	0	0	0	0	0	0	0	0	0	1,460	1,450	0
18	0	0	0	0	0	0	0	0	0	1,460	1,470	0
19	0	0	0	0	0	0	0	0	0	1,450	1,500	0
20	0	0	0	0	0	0	0	0	272	1,430	1,500	0
21	0	0	0	0	0	0	0	0	796	1,410	1,500	0
22	0	0	0	0	0	0	0	0	856	1,400	1,500	0
23	0	0	0	0	0	0	0	0	816	1,380	1,500	0
24	0	0	0	0	0	0	0	0	760	1,390	1,500	0
25	0	0	0	0	0	0	0	0	750	1,400	1,510	0
26	0	0	0	0	0	0	0	0	889	1,410	1,500	0
27	0	0	0	0	0	0	0	0	983	1,380	1,400	0
28	0	0	0	0	0	0	0	0	1,130	1,370	1,180	0
29	0	0	0	0	-----	0	0	0	1,160	1,340	933	0
30	0	0	0	0	-----	0	0	0	1,110	1,320	674	0
31	0	-----	0	0	-----	0	-----	0	-----	1,320	447	-----
TOTAL	0	0	0	0	0	0	0	0	9,522	43,830	41,734	68
MEAN	0	0	0	0	0	0	0	0	317	1,414	1,346	2.27
MAX	0	0	0	0	0	0	0	0	1,160	1,500	1,510	68
MIN	0	0	0	0	0	0	0	0	0	1,210	447	0
AC-FT	0	0	0	0	0	0	0	0	18,890	86,940	82,780	135
CAL YEAR 2002	MAX	1,510	MIN	0	AC-FT	190,700						
WTR YEAR 2003	MAX	1,510	MIN	0	AC-FT	188,700						

NORTH PLATTE RIVER BASIN

FORT LARAMIE CANAL from North Platte River @ Mile Post 85.3, 00052200 - 2003

LOCATION.--NE1/4NE1/4 Sec. 10-21-60 W. near Wyo. - Neb. State line

GAGE.--Continuous stage recorder and 15 ft. Parshall flume

PERIOD OF RECORD.--1981 - present

REMARKS.--Values furnished by the U.S. Bureau of Reclamation.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	536	561	241
2	0	0	0	0	0	0	0	0	0	502	568	167
3	0	0	0	0	0	0	0	0	0	581	555	107
4	0	0	0	0	0	0	0	0	0	632	555	58
5	0	0	0	0	0	0	0	0	0	614	559	0
6	0	0	0	0	0	0	0	0	0	623	555	0
7	0	0	0	0	0	0	0	0	0	626	551	0
8	0	0	0	0	0	0	0	0	0	612	561	0
9	0	0	0	0	0	0	0	0	0	603	585	0
10	0	0	0	0	0	0	0	0	0	612	564	0
11	0	0	0	0	0	0	0	0	0	605	559	0
12	0	0	0	0	0	0	0	0	0	590	559	0
13	0	0	0	0	0	0	0	0	0	596	568	0
14	0	0	0	0	0	0	0	0	0	605	568	0
15	0	0	0	0	0	0	0	0	0	610	561	0
16	0	0	0	0	0	0	0	0	0	608	561	0
17	0	0	0	0	0	0	0	0	0	608	572	0
18	0	0	0	0	0	0	0	0	0	599	570	0
19	0	0	0	0	0	0	0	0	0	605	577	0
20	0	0	0	0	0	0	0	0	0	612	574	0
21	0	0	0	0	0	0	0	0	0	608	577	0
22	0	0	0	0	0	0	0	0	0	605	581	0
23	0	0	0	0	0	0	0	0	112	596	577	0
24	0	0	0	0	0	0	0	0	368	590	570	0
25	0	0	0	0	0	0	0	0	389	579	570	0
26	0	0	0	0	0	0	0	0	319	588	574	0
27	0	0	0	0	0	0	0	0	297	608	572	0
28	0	0	0	0	0	0	0	0	352	585	559	0
29	0	0	0	0	-----	0	0	0	455	579	481	0
30	0	0	0	0	-----	0	0	0	542	570	400	0
31	0	-----	0	0	-----	0	-----	0	-----	570	319	-----
TOTAL	0	0	0	0	0	0	0	0	2,834	18,457	17,063	573
MEAN	0	0	0	0	0	0	0	0	94.5	595	550	19.1
MAX	0	0	0	0	0	0	0	0	542	632	585	241
MIN	0	0	0	0	0	0	0	0	0	502	319	0
AC-FT	0	0	0	0	0	0	0	0	5,620	36,610	33,840	1,140
CAL YEAR 2002	MAX	628	MIN	0	AC-FT	78,640						
WTR YEAR 2003	MAX	632	MIN	0	AC-FT	77,210						

NORTH PLATTE RIVER BASIN

INTERSTATE CANAL from North Platte River, 00071000 - 2003

LOCATION.--SW1/4 Sec. 12-26-65 W., Wyo.

GAGE.--Continuous stage recorder and concrete siphon

PERIOD OF RECORD.--1915 - present

REMARKS.--Values furnished by the U.S. Bureau of Reclamation.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	818	1,820	1,690	0
2	0	0	0	0	0	0	0	0	887	1,860	1,690	0
3	0	0	0	0	0	0	0	0	880	1,890	1,710	0
4	0	0	0	0	0	0	0	0	877	1,940	1,750	0
5	0	0	0	0	0	0	0	0	875	1,950	1,800	0
6	0	0	0	0	0	0	0	0	825	2,000	1,800	0
7	0	0	0	0	0	0	0	0	807	2,000	1,800	0
8	0	0	0	0	0	0	0	0	800	2,000	1,770	0
9	0	0	0	0	0	0	0	0	786	2,040	1,800	0
10	0	0	0	0	0	0	0	0	779	2,050	1,800	0
11	0	0	0	0	0	0	0	0	777	2,070	1,800	0
12	0	0	0	0	0	0	0	0	777	2,050	1,790	0
13	0	0	0	0	0	0	0	0	814	2,000	1,800	0
14	0	0	0	0	0	0	0	0	882	1,950	1,780	0
15	0	0	0	0	0	0	0	0	870	1,960	1,800	0
16	0	0	0	0	0	0	0	0	873	1,950	1,830	0
17	0	0	0	0	0	0	0	0	892	1,950	1,820	0
18	0	0	0	0	0	0	0	0	887	1,960	1,820	0
19	0	0	0	0	0	0	0	682	882	1,950	1,820	0
20	0	0	0	0	0	0	0	904	913	1,930	1,820	0
21	0	0	0	0	0	0	0	892	1,070	1,910	1,820	0
22	0	0	0	0	0	0	0	906	1,190	1,910	1,820	0
23	0	0	0	0	0	0	0	892	1,170	1,870	1,810	0
24	0	0	0	0	0	0	0	821	1,340	1,860	1,760	0
25	0	0	0	0	0	0	0	821	1,360	1,830	1,730	0
26	0	0	0	0	0	0	0	823	1,470	1,850	1,720	0
27	0	0	0	0	0	0	0	823	1,640	1,810	1,720	0
28	0	0	0	0	0	0	0	818	1,750	1,800	1,710	0
29	0	0	0	0	-----	0	0	818	1,800	1,740	1,400	0
30	0	0	0	0	-----	0	0	814	1,790	1,730	805	0
31	0	-----	0	0	-----	0	-----	821	-----	1,690	72	-----
TOTAL	0	0	0	0	0	0	0	10,835	31,481	59,320	52,057	0
MEAN	0	0	0	0	0	0	0	350	1,049	1,914	1,679	0
MAX	0	0	0	0	0	0	0	906	1,800	2,070	1,830	0
MIN	0	0	0	0	0	0	0	0	777	1,690	72	0
AC-FT	0	0	0	0	0	0	0	21,490	62,440	117,700	103,300	0
CAL YEAR 2002	MAX	1,930	MIN	0	AC-FT	257,600						
WTR YEAR 2003	MAX	2,070	MIN	0	AC-FT	304,900						

NORTH PLATTE RIVER BASIN

LAKE ALICE RESERVOIR from North Platte, 00400300 - 2003

LOCATION.--Sec. 8 & 15-23-54 W. near Scottsbluff

GAGE.--Reference point

PERIOD OF RECORD.--1977 - present

REMARKS.--Values furnished by U.S. Bureau of Reclamation.

STORAGE LEVEL	ELEVATION	CONTENT
	(Feet)	(Acre-feet)
Top of conservation pool	4192.0	11,100
Top of dead storage pool	4159.0	0

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	26.0	22.0	0	0	0	0	0	1,779	3,631	1,927	427
2	122	26.0	22.0	0	0	0	0	0	1,891	3,664	1,787	580
3	132	26.0	22.0	0	0	0	0	0	1,998	3,620	1,613	620
4	110	26.0	22.0	0	0	0	0	0	2,165	3,478	1,421	611
5	110	25.0	22.0	0	0	0	0	0	2,337	3,264	1,299	600
6	96.0	26.0	22.0	0	0	0	0	0	2,485	3,018	1,244	591
7	88.0	26.0	21.0	0	0	0	0	0	2,625	2,779	1,225	574
8	72.0	26.0	21.0	0	0	0	0	0	2,739	2,630	1,179	588
9	58.0	26.0	20.0	0	0	0	0	0	2,850	2,342	1,122	614
10	47.0	26.0	20.0	0	0	0	0	0	2,890	2,056	1,066	603
11	37.0	26.0	20.0	0	0	0	0	0	2,957	1,779	1,018	577
12	26.0	25.0	20.0	0	0	0	0	0	2,972	1,535	967	586
13	25.0	25.0	0	0	0	0	0	0	2,993	1,470	907	555
14	25.0	26.0	0	0	0	0	0	0	2,998	1,458	845	539
15	25.0	26.0	0	0	0	0	0	0	3,075	1,458	782	528
16	25.0	26.0	0	0	0	0	0	0	3,164	1,486	722	526
17	24.0	25.0	0	0	0	0	0	0	3,206	1,539	737	536
18	24.0	25.0	0	0	0	0	0	0	3,227	1,589	741	507
19	25.0	25.0	0	0	0	0	0	0	3,237	1,618	779	499
20	25.0	25.0	0	0	0	0	0	0	3,232	1,689	825	489
21	25.0	25.0	0	0	0	0	0	0	3,170	1,710	886	476
22	26.0	24.0	0	0	0	0	0	0	3,175	1,702	910	466
23	26.0	24.0	0	0	0	0	0	534	3,253	1,702	925	451
24	25.0	24.0	0	0	0	0	0	667	3,164	1,681	964	439
25	25.0	24.0	0	0	0	0	0	792	2,941	1,630	910	430
26	26.0	24.0	0	0	0	0	0	960	2,860	1,584	822	420
27	25.0	23.0	0	0	0	0	0	1,248	2,906	1,664	697	399
28	25.0	23.0	0	0	0	0	0	1,365	2,993	1,757	577	385
29	26.0	23.0	0	0	-----	0	0	1,478	3,237	1,878	507	374
30	26.0	22.0	0	0	-----	0	0	1,580	3,489	1,962	469	370
31	26.0	-----	0	0	-----	0	-----	1,668	-----	2,002	214	-----
MAX	132	26.0	22.0	0	0	0	0	1,668	3,489	3,664	1,927	620
MIN	24.0	22.0	0	0	0	0	0	0	1,779	1,458	214	370
CHANGE	-110	-4.0	-22.0	0	0	0	0	1,668	1,821	-1,487	-1,788	156

CAL YEAR 2002		MEAN	867	MAX	6,210	MIN	0
WTR YEAR 2003		MEAN	574	MAX	3,664	MIN	0

NORTH PLATTE RIVER BASIN

LITTLE LAKE ALICE RESERVOIR from North Platte River, 00405200 - 2003

LOCATION.-- Sec.15 & 16-23-54 w.

GAGE.--Slope gage

PERIOD OF RECORD.--1992 - present

REMARKS.--Values furnished by U.S. Bureau of Reclamation.

STORAGE LEVEL	ELEVATION (FEET)	CONTENT (Acre-feet)
Top of conservation pool	4140	1605
Top of dead storage pool	4127	0

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	160	116	65.0	20.0	17.0	17.0	17.0	350	324	361	259
2	213	159	113	64.0	20.0	17.0	17.0	17.0	355	315	358	261
3	199	158	111	63.0	20.0	17.0	17.0	17.0	366	302	351	261
4	198	158	109	62.0	20.0	17.0	17.0	17.0	332	259	335	261
5	198	156	106	60.0	20.0	17.0	17.0	17.0	336	208	334	262
6	197	154	103	60.0	20.0	17.0	17.0	17.0	351	287	338	262
7	196	152	101	57.0	19.0	17.0	17.0	17.0	351	175	343	261
8	194	150	99.0	55.0	18.0	17.0	17.0	17.0	353	278	342	269
9	193	150	97.0	53.0	18.0	17.0	17.0	17.0	359	269	339	265
10	192	149	94.0	51.0	18.0	17.0	17.0	17.0	362	265	336	262
11	192	147	92.0	50.0	18.0	17.0	17.0	17.0	368	264	329	261
12	189	145	91.0	49.0	17.0	17.0	17.0	17.0	362	267	326	261
13	189	144	89.0	47.0	17.0	17.0	17.0	17.0	360	269	321	262
14	186	143	88.0	47.0	18.0	17.0	17.0	17.0	324	271	317	261
15	184	141	86.0	45.0	17.0	17.0	17.0	17.0	288	347	313	261
16	182	140	86.0	43.0	17.0	17.0	17.0	17.0	256	346	306	260
17	182	140	84.0	35.0	17.0	17.0	17.0	17.0	364	342	304	262
18	180	137	81.0	28.0	17.0	17.0	17.0	17.0	267	342	303	259
19	179	136	81.0	25.0	18.0	17.0	17.0	17.0	278	344	304	264
20	177	134	79.0	24.0	18.0	17.0	17.0	17.0	376	349	309	260
21	170	133	78.0	23.0	17.0	17.0	17.0	17.0	274	353	308	259
22	170	131	77.0	22.0	17.0	17.0	17.0	90.0	349	353	324	256
23	169	131	79.0	22.0	17.0	17.0	17.0	263	367	351	335	254
24	167	131	76.0	22.0	17.0	17.0	17.0	347	367	349	339	250
25	166	129	76.0	22.0	17.0	17.0	17.0	368	362	346	343	245
26	166	128	74.0	21.0	17.0	17.0	17.0	326	345	352	339	246
27	165	125	70.0	21.0	17.0	17.0	17.0	329	333	354	333	243
28	164	123	69.0	21.0	17.0	17.0	17.0	333	334	351	320	243
29	165	122	69.0	21.0	-----	17.0	17.0	298	339	355	308	241
30	163	120	68.0	21.0	-----	17.0	17.0	347	318	360	305	249
31	162	-----	66.0	21.0	-----	17.0	-----	332	-----	362	273	-----
MAX	214	160	116	65.0	20.0	17.0	17.0	368	376	362	361	269
MIN	162	120	66.0	21.0	17.0	17.0	17.0	17.0	256	175	273	241
CHANGE	-53.0	-42.0	-54.0	-45.0	-4.0	0	0	315	-14.0	44.0	-89.0	-24.0
CAL YEAR 2002			MEAN	175	MAX	754	MIN	19.0				
WTR YEAR 2003			MEAN	155	MAX	376	MIN	17.0				

NORTH PLATTE RIVER BASIN

LAKE MINATARE RESERVOIR from North Platte, 00406300 - 2003

LOCATION.--Sec. 32-23-53 W. near Scottsbluff

GAGE.--Staff gage

PERIOD OF RECORD.--1977 - present

REMARKS.--Values furnished by U.S. Bureau of Reclamation.

STORAGE LEVEL	ELEVATION (Feet)	CONTENT (Acre-feet)
Top of conservation pool	4125.0	60,770
Top of dead storage pool	4075.0	300

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,550	8,425	8,317	8,325	8,235	8,170	8,097	7,920	13,062	28,151	15,613	8,284
2	8,550	8,417	8,317	8,317	8,235	8,170	8,097	7,920	13,602	27,753	15,458	8,359
3	8,542	8,417	8,317	8,317	8,235	8,170	8,089	7,912	14,451	27,246	15,292	8,508
4	8,542	8,408	8,309	8,317	8,227	8,162	8,089	7,912	15,032	26,727	15,079	8,677
5	8,525	8,408	8,309	8,309	8,227	8,162	8,089	7,904	15,951	26,182	14,763	8,584
6	8,525	8,400	8,309	8,309	8,227	8,162	8,081	7,904	16,488	25,658	14,394	8,293
7	8,525	8,400	8,301	8,309	8,227	8,154	8,081	7,896	17,185	25,064	14,097	8,660
8	8,525	8,392	8,301	8,301	8,227	8,154	8,081	7,896	17,767	24,552	13,747	8,736
9	8,517	8,392	8,301	8,301	8,219	8,154	8,081	7,888	18,371	23,928	13,392	8,342
10	8,517	8,383	8,301	8,301	8,219	8,154	8,073	7,888	18,972	23,340	13,084	8,383
11	8,508	8,383	8,301	8,301	8,219	8,154	8,073	7,888	19,596	22,746	12,759	8,375
12	8,508	8,375	8,301	8,293	8,219	8,145	8,065	7,880	20,270	22,159	12,364	8,375
13	8,500	8,375	8,375	8,293	8,211	8,145	8,065	7,873	20,900	21,581	11,956	8,367
14	8,500	8,375	8,367	8,293	8,211	8,145	8,056	7,873	21,553	20,982	11,697	8,367
15	8,491	8,375	8,367	8,293	8,202	8,137	8,056	7,865	22,173	20,392	11,200	8,359
16	8,491	8,367	8,367	8,284	8,202	8,137	8,056	7,865	22,789	19,851	10,814	8,359
17	8,483	8,367	8,359	8,276	8,202	8,137	8,048	7,865	23,413	19,303	10,494	8,359
18	8,483	8,359	8,359	8,276	8,202	8,137	8,048	7,857	24,090	18,815	10,180	8,359
19	8,475	8,359	8,350	8,276	8,194	8,129	8,048	7,857	24,748	18,410	9,900	8,359
20	8,475	8,350	8,350	8,268	8,194	8,129	8,040	7,849	25,444	18,113	9,553	8,350
21	8,466	8,350	8,350	8,268	8,194	8,121	8,040	7,841	26,120	17,780	9,152	8,350
22	8,466	8,342	8,342	8,268	8,186	8,121	8,040	7,833	26,805	17,500	8,830	8,350
23	8,458	8,342	8,342	8,260	8,186	8,121	8,032	7,825	27,499	17,222	8,609	8,342
24	8,458	8,334	8,342	8,260	8,186	8,121	8,024	7,825	28,215	16,947	8,342	8,342
25	8,450	8,334	8,342	8,252	8,178	8,113	7,944	7,817	28,713	16,636	8,170	8,334
26	8,450	8,334	8,334	8,252	8,178	8,113	7,944	7,817	29,053	16,390	8,032	8,325
27	8,441	8,325	8,334	8,252	8,178	8,113	7,944	10,294	29,085	16,194	8,129	8,325
28	8,441	8,325	8,334	8,243	8,178	8,105	7,936	10,873	28,907	16,024	7,920	8,317
29	8,433	8,325	8,325	8,243	-----	8,105	7,936	11,575	28,713	15,975	7,833	8,317
30	8,433	8,317	8,325	8,243	-----	8,105	7,928	12,049	28,456	15,963	7,833	8,309
31	8,425	-----	8,325	8,235	-----	8,097	-----	12,695	-----	15,963	8,359	-----
MAX	8,550	8,425	8,375	8,325	8,235	8,170	8,097	12,695	29,085	28,151	15,613	8,736
MIN	8,425	8,317	8,301	8,235	8,178	8,097	7,928	7,817	13,062	15,963	7,833	8,284
CHANGE	-134	-108	8.0	-90.0	-57.0	-81.0	-169	4,767	15,761	-12,493	-7,604	-50.0

CAL YEAR 2002		MEAN	19,982	MAX	38,500	MIN	8,270
WTR YEAR 2003		MEAN	10,752	MAX	29,085	MIN	7,817

NORTH PLATTE RIVER BASIN

WINTERS CREEK RESERVOIR, 00412000 - 2003

LOCATION.--Sec. 13 &24-23-54 W.

GAGE.--Reference point

PERIOD OF RECORD.--1992 - present

REMARKS.--Values furnished by U.S. Bureau of Reclamation.

STORAGE LEVEL	ELEVATION	CONTENT
Top of conservation pool	(Feet)	(Acre-feet)
Top of dead storage pool	4130	3474

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	497	428	385	317	302	290	279	265	249	915	814	758
2	496	425	383	315	302	290	279	265	249	915	814	692
3	492	423	382	315	302	290	277	264	248	915	812	692
4	492	423	380	315	301	289	277	264	247	912	812	692
5	485	420	379	314	301	289	277	262	367	912	812	662
6	487	416	379	314	301	289	276	262	423	910	810	661
7	485	416	378	314	299	288	276	261	469	910	810	639
8	485	412	376	312	298	288	276	261	518	908	810	637
9	482	405	375	312	298	288	276	261	574	908	810	637
10	475	405	373	312	298	288	275	261	618	906	764	637
11	474	405	372	312	298	288	275	261	700	904	764	637
12	472	400	372	311	298	286	274	261	756	902	764	637
13	467	400	325	311	297	286	274	260	783	893	764	637
14	465	399	325	311	297	286	272	260	816	893	764	637
15	464	397	323	311	295	285	272	259	863	893	764	636
16	457	397	323	311	295	285	272	259	875	869	764	636
17	457	396	322	308	295	285	271	259	926	858	764	636
18	454	396	322	308	295	285	271	258	926	858	764	636
19	449	396	321	308	294	284	271	258	921	858	764	634
20	449	394	321	307	294	284	270	256	921	858	760	620
21	447	394	321	307	294	282	270	255	921	854	760	618
22	447	392	319	307	293	303	270	254	919	852	760	618
23	447	392	319	306	293	303	269	253	919	852	760	618
24	446	391	319	306	293	282	267	253	919	852	758	618
25	436	391	319	304	291	281	267	251	919	850	760	618
26	434	389	318	304	291	281	267	251	919	850	760	617
27	434	388	318	304	291	281	267	251	919	850	760	617
28	433	388	318	303	291	280	266	251	917	820	760	617
29	433	386	317	303	-----	280	266	250	917	814	760	617
30	433	385	317	303	-----	280	266	250	917	814	760	617
31	431	-----	317	302	-----	279	-----	249	-----	814	760	-----
MAX	497	428	385	317	302	303	279	399	926	915	814	758
MIN	431	385	317	302	291	279	266	249	247	814	758	617
CHANGE	-65.0	-46.0	-68.0	-15.0	-11.0	-12.0	-13.0	-17.0	668	-103	-54.0	-143
CAL YEAR 2002			MEAN	545	MAX	1,040	MIN	0				
WTR YEAR 2003			MEAN	471	MAX	926	MIN	247				

NORTH PLATTE RIVER BASIN

MITCHELL & GERING CANAL from North Platte River, 00101100 - 2003

LOCATION.--SW1/4NE1/4 Sec. 10-23-60 W. near Henry

GAGE.--Continuous stage recorder and 15 ft. Parshall flume

PERIOD OF RECORD.--1916 - present

REMARKS.--Values shown here are the total headgate diversions for Mitchell and Gering District lands. Values published before 1985 for this diversion site did not include the delivery and carriage losses charged to the Gering Irrigation District.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	.82					.82	.82	101	220	273	212
2	161	.82					.82	.82	102	217	272	196
3	166	.82					.82	.82	105	275	273	160
4	164						.82	.82	101	297	276	168
5	164						.82	118	102	300	278	167
6	164						.82	159	97	301	283	169
7	165						.82	157	99	322	285	169
8	164						.82	175	100	336	285	170
9	164						.82	171	102	335	285	175
10	166						.82	169	107	331	285	191
11	168						.82	168	108	330	283	217
12	167						.82	164	111	334	287	233
13	167						.82	160	110	336	294	232
14	168						.82	156	112	335	295	232
15	169						.82	149	106	338	293	231
16	169						.82	145	104	293	293	229
17	169						.82	138	105	287	290	229
18	169						.82	132	107	284	296	229
19	169						.82	129	107	286	296	227
20	170						.82	130	109	284	296	224
21	171						.82	140	113	285	296	224
22	178						.82	129	117	276	289	223
23	181						.82	129	124	273	287	209
24	181						.82	132	126	275	289	209
25	181						.82	127	148	275	291	209
26	181						.82	122	158	279	289	209
27	181						.82	120	174	276	211	209
28	181						.82	119	179	273	208	209
29	181				-----		.82	115	192	275	210	213
30	79				-----		.82	107	219	273	211	140
31	.82	-----			-----		-----	103	-----	275	213	-----
TOTAL	5,020.82	2.46					24.60	3,766.28	3,645	9,076	8,512	6,114
MEAN	162	.82					.82	121	122	293	275	204
MAX	181	.82					.82	175	219	338	296	233
MIN	.82	.82					.82	.82	97	217	208	140
AC-FT	9,960	4.9					49	7,470	7,230	18,000	16,880	12,130
CAL YEAR 2002	MAX	305	MIN	0	AC-FT	62,300						
WTR YEAR 2003	MAX	338	MIN	.82	AC-FT	71,730						

NORTH PLATTE RIVER BASIN

GERING CANAL from North Platte River via Mitchell and Gering Canal, 00056000 - 2003

LOCATION.--SW1/4NE1/4 Sec. 29-22-55 W. near Gering

GAGE.--Continuous stage recorder and 15 ft. Parshall flume

PERIOD OF RECORD.--1916 - present

REMARKS.--Values published before 1985 were adjusted to include carriage losses between the Mitchell & Gering canal and Gering canal flumes.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	0						0	1.3	75	140	71
2	89	0						0	3.4	65	127	60
3	95	0						0	11	82	128	24
4	100	0						0	9.2	113	125	17
5	97							0	10	116	122	18
6	92							0	21	116	123	21
7	92							7.5	23	115	125	22
8	91							63	28	126	126	26
9	84						0	104	24	126	132	40
10	88						0	104	29	125	132	59
11	89						0	101	29	126	133	82
12	89						0	90	27	129	127	104
13	92						0	71	29	136	132	111
14	95						0	45	37	140	131	112
15	89						0	35	36	132	134	114
16	88						0	30	32	137	133	112
17	90						0	18	34	133	126	105
18	92						0	16	37	129	124	104
19	92						0	15	39	137	131	110
20	91						0	7.8	38	137	125	110
21	94						0	13	34	137	129	109
22	107						0	9.6	32	136	126	110
23	113E						0	5.4	28	133	121	114
24	118E						0	3.8	27	135	121	113
25	124						0	3.4	31	132	125	113
26	121						0	3.1	54	131	122	117
27	119						0	2.4	57	149	93	116
28	121						0	1.9	61	135	61	117
29	120				-----		0	2.5	65	135	59	131
30	56				-----		0	2.0	79	130	62	116
31	0	-----			-----		-----	1.5	-----	134	67	-----
TOTAL	2,932	0					0	755.9	965.9	3,882	3,662	2,578
MEAN	94.6	0					0	24.4	32.2	125	118	85.9
MAX	124	0					0	104	79	149	140	131
MIN	0	0					0	0	1.3	65	59	17
AC-FT	5,820	0					0	1,500	1,920	7,700	7,260	5,110
CAL YEAR 2002	MAX	169	MIN	0	AC-FT	30,810						
WTR YEAR 2003	MAX	149	MIN	0	AC-FT	29,310						

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from North Platte River, 00145100 - 2003

LOCATION.--NE1/4NE1/4 SEC. 10-23-58 W. Near Henry

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1916, 1919 - present

REMARKS.--Total diversion from North Platte River for both Farmers and Northport Irrigation Districts. Deliveries to Northport District shown separately in this report. Values published before 1985 for this diversion site did not include the delivery and carriage losses charged to Northport Irrigation District.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	800	1,140	0
2								0	0	900	1,140	0
3								0	0	900	1,140	130
4								0	0	900	1,190	215
5								0	0	900	1,160	201
6								0	0	900	1,190	99
7								0	0	900	1,180	0
8								0	0	1,200	1,140	0
9								0	0	1,200	1,150	0
10								0	0	1,200	1,150	0
11								0	0	1,200	1,160	12
12								0	0	1,200	1,190	69
13								0	0	1,200	1,190	67
14								0	0	1,200	1,150	67
15								0	0	1,200	1,180	0
16								0	0	1,200	1,190	60
17								0	0	1,250	1,190	55
18								0	0	1,250	1,190	0
19								0	0	1,280	1,190	0
20								0	0	1,280	1,170	0
21								0	0	1,280	1,140	0
22								0	0	1,280	1,140	37
23								0	0	1,280	1,010	0
24								0	145	1,260	700	0
25								0	370	1,220	670	0
26								0	568	1,220	546	0
27								0	593	1,220	568	0
28								0	593	1,220	400	0
29					-----			0	925	1,220	0	0
30					-----			0	800	1,140	0	0
31		-----			-----		-----	0	-----	1,140	0	-----
TOTAL								0	3,994	35,540	29,554	1,012
MEAN								0	133	1,146	953	33.7
MAX								0	925	1,280	1,190	215
MIN								0	0	800	0	0
AC-FT								0	7,920	70,490	58,620	2,010
CAL YEAR 2002	MAX	1,350	MIN	0	AC-FT	147,100						
WTR YEAR 2003	MAX	1,280	MIN	0	AC-FT	139,000						

NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Sheep Creek, 00144700 - 2003

LOCATION.--NE1/4NW1/4 Sec. 17-23-57 W. near Morrill

GAGE.--Continuous Stage Recorder

PERIOD OF RECORD.--1986 - present

REMARKS.--Values provided by the U.S. Bureau of Reclamation. Data before 1986 available from the Bureau.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	31	41	0
2	0	0	0	0	0	0	0	0	0	28	43	0
3	0	0	0	0	0	0	0	0	0	27	45	0
4	0	0	0	0	0	0	0	0	0	27	42	51
5	0	0	0	0	0	0	0	0	0	30	40	51
6	0	0	0	0	0	0	0	0	0	29	42	50
7	0	0	0	0	0	0	0	0	0	30	43	50
8	0	0	0	0	0	0	0	0	0	30	47	51
9	0	0	0	0	0	0	0	0	0	27	45	51
10	0	0	0	0	0	0	0	0	0	28	44	61
11	0	0	0	0	0	0	0	0	0	27	46	57
12	0	0	0	0	0	0	0	0	0	28	46	55
13	0	0	0	0	0	0	0	0	0	30	45	53
14	0	0	0	0	0	0	0	0	0	30	43	53
15	0	0	0	0	0	0	0	0	0	31	47	53
16	0	0	0	0	0	0	0	0	0	30	48	52
17	0	0	0	0	0	0	0	0	0	30	48	52
18	0	0	0	0	0	0	0	0	0	32	50	55
19	0	0	0	0	0	0	0	0	0	32	50	54
20	0	0	0	0	0	0	0	0	0	32	50	52
21	0	0	0	0	0	0	0	0	0	32	50	51
22	0	0	0	0	0	0	0	0	0	32	50	51
23	0	0	0	0	0	0	0	0	0	38	50	51
24	0	0	0	0	0	0	0	0	0	44	50	51
25	0	0	0	0	0	0	0	0	0	41	50	51
26	0	0	0	0	0	0	0	0	0	41	50	19
27	0	0	0	0	0	0	0	0	0	42	51	0
28	0	0	0	0	0	0	0	0	0	49	32	0
29	0	0	0	0	-----	0	0	0	0	45	0	0
30	0	0	0	0	-----	0	0	0	33	44	0	0
31	0	-----	0	0	-----	0	-----	0	-----	45	0	-----
TOTAL	0	0	0	0	0	0	0	0	33	1,042	1,288	1,175
MEAN	0	0	0	0	0	0	0	0	1.10	33.6	41.5	39.2
MAX	0	0	0	0	0	0	0	0	33	49	51	61
MIN	0	0	0	0	0	0	0	0	0	27	0	0
AC-FT	0	0	0	0	0	0	0	0	65	2,070	2,550	2,330
CAL YEAR 2002	MAX	96	MIN	0	AC-FT	11,950						
WTR YEAR 2003	MAX	61	MIN	0	AC-FT	7,020						

NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Akers Draw, 00144500 - 2003

LOCATION.--NE1/4SE1/4 Sec. 11-23-57 W. near Morrill

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1986 - present

REMARKS.--Values provided by the U.S. Bureau of Reclamation. Data before 1986 available from the Bureau.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									9.0	8.0	10	8.0
2									9.0	8.0	10	8.0
3									9.0	8.0	10	8.0
4									9.0	8.0	10	9.0
5								8.0	9.0	8.0	10	8.0
6								8.0	9.0	8.0	10	8.0
7								9.0	9.0	8.0	10	9.0
8								9.0	9.0	8.0	10	8.0
9								9.0	9.0	8.0	10	8.0
10								9.0	9.0	8.0	10	8.0
11								9.0	9.0	8.0	10	8.0
12								9.0	9.0	8.0	10	8.0
13								8.0	9.0	8.0	10	8.0
14								8.0	9.0	8.0	10	9.0
15								8.0	9.0	8.0	10	8.0
16								8.0	9.0	8.0	10	9.0
17								8.0	9.0	9.0	10	9.0
18								8.0	9.0	9.0	10	10
19								8.0	9.0	9.0	10	10
20								8.0	9.0	9.0	10	10
21								8.0	9.0	9.0	10	10
22								8.0	9.0	9.0	10	11
23								8.0	10	10	10	10
24								8.0	10	11	10	10
25								8.0	10	10	0	10
26								8.0	10	10	13	10
27								8.0	10	10	9.0	10
28								8.0	10	10	8.0	10
29								8.0	15	10	8.0	10
30								8.0	8.0	10	8.0	10
31								8.0	-----	10	8.0	-----
TOTAL								222.0	281.0	273.0	294.0	272.0
MEAN								7.16	9.37	8.81	9.48	9.07
MAX								9.0	15	11	13	11
MIN								0	8.0	8.0	0	8.0
AC-FT								440	557	541	583	540

CAL YEAR 2002	MAX	11	MIN	0	AC-FT	2,500
WTR YEAR 2003	MAX	15	MIN	0	AC-FT	2,660

NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Dry Spotted Tail Creek, 00144600 - 2003

LOCATION.--SW1/4SW1/4 Sec. 4-23-56 W. near Mitchell

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1986 - present

REMARKS.--Values provided by the U.S. Bureau of Reclamation. Data before 1986 available from the Bureau.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	18	0
2	0	0	0	0	0	0	0	0	0	4.0	18	0
3	0	0	0	0	0	0	0	0	0	6.0	19	0
4	0	0	0	0	0	0	0	0	0	10	19	9.0
5	0	0	0	0	0	0	0	0	0	9.0	20	9.0
6	0	0	0	0	0	0	0	0	0	11	20	8.0
7	0	0	0	0	0	0	0	0	0	9.0	19	7.0
8	0	0	0	0	0	0	0	0	0	7.0	18	8.0
9	0	0	0	0	0	0	0	0	0	6.0	18	8.0
10	0	0	0	0	0	0	0	0	0	4.0	17	9.0
11	0	0	0	0	0	0	0	0	0	4.0	16	9.0
12	0	0	0	0	0	0	0	0	0	4.0	16	9.0
13	0	0	0	0	0	0	0	0	0	5.0	17	10
14	0	0	0	0	0	0	0	0	0	5.0	18	9.0
15	0	0	0	0	0	0	0	0	0	5.0	17	9.0
16	0	0	0	0	0	0	0	0	0	5.0	18	8.0
17	0	0	0	0	0	0	0	0	0	5.0	20	8.0
18	0	0	0	0	0	0	0	0	0	6.0	18	9.0
19	0	0	0	0	0	0	0	0	0	7.0	19	9.0
20	0	0	0	0	0	0	0	0	0	7.0	19	8.0
21	0	0	0	0	0	0	0	0	0	7.0	19	8.0
22	0	0	0	0	0	0	0	0	0	6.0	18	8.0
23	0	0	0	0	0	0	0	0	0	15	18	8.0
24	0	0	0	0	0	0	0	0	0	16	18	8.0
25	0	0	0	0	0	0	0	0	0	17	17	8.0
26	0	0	0	0	0	0	0	0	0	16	11	6.0
27	0	0	0	0	0	0	0	0	0	17	11	0
28	0	0	0	0	0	0	0	0	0	18	9.0	0
29	0	0	0	0	-----	0	0	0	0	20	0	0
30	0	0	0	0	-----	0	0	0	0	19	0	0
31	0	-----	0	0	-----	0	-----	0	-----	19	0	-----
TOTAL	0	0	0	0	0	0	0	0	0	289.0	485.0	192.0
MEAN	0	0	0	0	0	0	0	0	0	9.32	15.6	6.40
MAX	0	0	0	0	0	0	0	0	0	20	20	10
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	573	962	381
CAL YEAR 2002	MAX	18	MIN	0	AC-FT	2,290						
WTR YEAR 2003	MAX	20	MIN	0	AC-FT	1,920						

NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Wet Spotted Tail Creek, 00144900 - 2003

LOCATION.--NW1/4NE1/4 Sec. 10-23-56 W. near Mitchell

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1986 - present

REMARKS.--Values provided by the U.S. Bureau of Reclamation. Data before 1986 available from the Bureau.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	5.0
2	0	0	0	0	0	0	0	0	0	0	0	4.0
3	0	0	0	0	0	0	0	0	0	0	0	4.0
4	0	0	0	0	0	0	0	0	0	0	0	4.0
5	0	0	0	0	0	0	0	0	0	0	0	4.0
6	0	0	0	0	0	0	0	0	0	0	0	4.0
7	0	0	0	0	0	0	0	0	0	0	0	4.0
8	0	0	0	0	0	0	0	0	0	0	0	4.0
9	0	0	0	0	0	0	0	0	0	0	3.0	4.0
10	0	0	0	0	0	0	0	0	0	0	0	4.0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	8.0
16	0	0	0	0	0	0	0	0	0	0	0	7.0
17	0	0	0	0	0	0	0	0	0	0	0	6.0
18	0	0	0	0	0	0	0	0	0	0	0	7.0
19	0	0	0	0	0	0	0	0	0	0	0	6.0
20	0	0	0	0	0	0	0	0	0	0	0	6.0
21	0	0	0	0	0	0	0	0	0	0	0	5.0
22	0	0	0	0	0	0	0	0	0	0	0	4.0
23	0	0	0	0	0	0	0	0	0	0	0	3.0
24	0	0	0	0	0	0	0	0	0	0	3.0	0
25	0	0	0	0	0	0	0	0	0	0	4.0	0
26	0	0	0	0	0	0	0	0	0	0	3.0	0
27	0	0	0	0	0	0	0	0	0	5.0	3.0	0
28	0	0	0	0	0	0	0	0	0	3.0	6.0	0
29	0	0	0	0	-----	0	0	0	0	0	3.0	0
30	0	0	0	0	-----	0	0	0	0	0	4.0	0
31	0	-----	0	0	-----	0	-----	0	-----	0	5.0	-----
TOTAL	0	0	0	0	0	0	0	0	0	8.0	34.0	93.0
MEAN	0	0	0	0	0	0	0	0	0	.26	1.10	3.10
MAX	0	0	0	0	0	0	0	0	0	5.0	6.0	8.0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	16	67	184
CAL YEAR 2002	MAX	69	MIN	0	AC-FT	1,530						
WTR YEAR 2003	MAX	8.0	MIN	0	AC-FT	268						

NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Tub Springs, 00144800 - 2003

LOCATION.--SE1/4SW1/4 Sec. 27-23-55 W. near Scottsbluff

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1986 - present

REMARKS.--Values provided by the U.S. Bureau of Reclamation. Data before 1986 available from the Bureau.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	5.0	17	0
2	0	0	0	0	0	0	0	0	0	7.0	18	0
3	0	0	0	0	0	0	0	0	0	12	17	6.0
4	0	0	0	0	0	0	0	0	0	12	17	12
5	0	0	0	0	0	0	0	0	0	8.0	17	11
6	0	0	0	0	0	0	0	0	0	6.0	17	11
7	0	0	0	0	0	0	0	0	0	6.0	17	11
8	0	0	0	0	0	0	0	0	0	5.0	17	10
9	0	0	0	0	0	0	0	0	0	4.0	17	16
10	0	0	0	0	0	0	0	0	0	4.0	17	15
11	0	0	0	0	0	0	0	0	0	5.0	17	12
12	0	0	0	0	0	0	0	0	0	5.0	17	14
13	0	0	0	0	0	0	0	0	0	6.0	17	13
14	0	0	0	0	0	0	0	0	0	6.0	16	14
15	0	0	0	0	0	0	0	0	0	6.0	16	14
16	0	0	0	0	0	0	0	0	0	7.0	19	13
17	0	0	0	0	0	0	0	0	0	7.0	21	13
18	0	0	0	0	0	0	0	0	0	8.0	21	14
19	0	0	0	0	0	0	0	0	0	7.0	21	13
20	0	0	0	0	0	0	0	0	0	8.0	21	13
21	0	0	0	0	0	0	0	0	0	9.0	21	13
22	0	0	0	0	0	0	0	0	0	8.0	22	13
23	0	0	0	0	0	0	0	0	0	15	21	13
24	0	0	0	0	0	0	0	0	0	15	20	13
25	0	0	0	0	0	0	0	0	0	16	21	13
26	0	0	0	0	0	0	0	0	0	17	19	8.0
27	0	0	0	0	0	0	0	0	0	25	20	0
28	0	0	0	0	0	0	0	0	0	20	14	0
29	0	0	0	0	-----	0	0	0	0	16	0	0
30	0	0	0	0	-----	0	0	0	0	16	0	0
31	0	-----	0	0	-----	0	-----	0	-----	16	0	-----
TOTAL	0	0	0	0	0	0	0	0	0	307.0	515	298.0
MEAN	0	0	0	0	0	0	0	0	0	9.90	16.6	9.93
MAX	0	0	0	0	0	0	0	0	0	25	22	16
MIN	0	0	0	0	0	0	0	0	0	4.0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	609	1,020	591
CAL YEAR 2002	MAX	22	MIN	0	AC-FT	3,820						
WTR YEAR 2003	MAX	25	MIN	0	AC-FT	2,220						

NORTH PLATTE RIVER BASIN

NORTHPORT CANAL from North Platte River and Drains via Tri-State Canal, 00115100 - 2003

LOCATION.--SW1/4SW1/4 Sec. 14-21-51 W. near Bayard

GAGE.--Continuous stage recorder and 12 ft. Parshall flume with modified rating

PERIOD OF RECORD.--1920, 1922 - present

REMARKS.--Published record before 1985 was for Northport Canal from North Platte River. Values published were adjusted to include carriage losses and contributions from drains between the Tri-State diversion from the North Platte River and the Northport Canal gage.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11							0	0	136	267	0
2	9.5							0	0	158	266	0
3	10							0	0	193	254	0
4	5.2						0	0	0	236	232	0
5	0						0	0	0	248	249	0
6	0						0	0	0	255	263	14
7	0						0	0	0	259	273	27
8	0						0	0	0	258	279	18
9	0						0	0	0	243	288	7.4
10	0						0	0	0	235	285	12
11	0						0	0	0	219	279	22
12	0						0	0	0	195	280	14
13	0						0	0	0	216	291	12
14	0						0	0	0	252	283	45
15	0						0	0	0	233	263	51
16	0						0	0	0	242	259	51
17	0						0	0	0	239	277	49
18	0						0	0	0	248	288	47
19	0						0	0	0	262	288	47
20	0						0	0	0	268	282	52
21	0						0	0	0	273	274	42
22	0						0	0	0	282	273	33
23							0	0	0	286	261	28
24							0	0	0	296	95	23
25							0	0	0	294	28	18
26							0	0	0	277	1.8	0
27							0	0	0	272	0	0
28							0	0	129	281	0	0
29					-----		0	0	121	265	0	0
30					-----		0	0	120	265	0	0
31		-----			-----		0	0	-----	262	0	-----
TOTAL	35.7						0	0	370	7,648	6,378.8	612.4
MEAN	1.62						0	0	12.3	247	206	20.4
MAX	11						0	0	129	296	291	52
MIN	0						0	0	0	136	0	0
AC-FT	71						0	0	734	15,170	12,650	1,210
CAL YEAR 2002	MAX	287	MIN	0	AC-FT	33,350						
WTR YEAR 2003	MAX	296	MIN	0	AC-FT	29,840						

NORTH PLATTE RIVER BASIN

HORSE CREEK near Lyman, 06677500 - 2003

LOCATION.--SE1/4NE1/4 Sec. 25-23-58 W., Scotts Bluff County, Lat. 41° 56' 21", Long. 103° 59' 13", on right bank 50 feet upstream from county highway bridge, 1.8 miles upstream from mouth, 2.2 miles downstream from Owl Creek and 3.2 miles northeast of Lyman.

DRAINAGE AREA.--1,707 square miles, approximately 1,667 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 3,992.84 feet above mean sea level.

PERIOD OF RECORD.--Feb. 1931 to present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 5,110 cubic feet per second June 6, 1967, gage height 10.82 feet; minimum daily discharge 0.40 cubic feet per second February 1, 1949.

EXTREMES FOR CURRENT YEAR.--Peak discharge 408 cubic feet per second September 1, gage height 4.55 feet; minimum daily discharge 5.9 cubic feet per second on June 18.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31E	26	17	9.0E	9.7	11	14	7.1	8.2	86	66	362
2	30E	25	17	9.0E	9.9	12	13	6.8	8.4	45	61	279
3	30E	26	17	12	10	13	13	6.5	8.8	31	60	207
4	30E	25	16	12	8.0E	11	12	6.2	8.3	55	74	137
5	29E	25	16	12	8.0E	11E	12	71	8.2	46	62	94
6	29E	25	16	12	9.0E	11E	13	60	8.7	38	63	67
7	29E	25	15	9.0E	9.0E	11E	13	13	8.4	40	53	63
8	28E	23	16	8.0E	10 E	10E	12	16	7.9	41	42	62
9	28E	22	16	8.0E	10 E	10E	10	16	7.5	38	45	57
10	28E	21	16	8.0E	11 E	10E	9.2	13	8.0	36	45	52
11	27E	21	15	8.0E	12	12	8.9	15	7.4	35	52	49
12	27E	20	15	7.0E	12	11	8.4	14	9.9	34	58	46
13	27E	19	15	7.0E	12	11	7.9	12	15	32	51	42
14	26E	19	15	7.0E	13	10	7.6	11	12	31	44	42
15	26E	18	14	7.0E	12	10	7.6	11	6.6	32	40	39
16	25	18	14	7.0E	12	10	7.4	11	6.0E	34	36	36
17	25	17	14	7.0E	13	10	7.5	11	6.0E	34	37	35
18	25	17	14	8.0E	12	17	8.0	11	5.9	38	44	37
19	25	16	14	10	11	19	7.9	11	5.9	41	41	35
20	24	17	14 E	11	11	25	7.6	11	5.9	41	38	33
21	24	17	14 E	10	11	30	7.5	13	6.2	46	37	32
22	25	17	13 E	9.0E	11	34	7.4	12	6.3	48	39	31
23	26	17	11 E	8.0E	10 E	24	8.7	11	6.7	52	43	29
24	26	17	11 E	8.0E	10 E	19	9.3	11	41	48	47	28
25	26	17	10 E	10	9.0E	17	9.0	11	211	34	47	27
26	26	18	10 E	10	9.0E	15	8.1	11	169	40	45	27
27	25	19	10 E	11	9.0E	18	7.4	11	38	164	47	26
28	26	17	10 E	10	11	18	7.0E	10	30	102	53	25
29	28	18	9.0E	9.8	-----	17	7.0E	8.8	37	72	63	29
30	27E	17	9.0E	9.3	-----	17	7.0	8.5	109	69	172	33
31	27	-----	9.0E	9.7	-----	15	-----	8.5	-----	70	324	-----
TOTAL	835	599	422.0	282.8	294.6	469	278.4	449.4	817.2	1,553	1,929	2,061
MEAN	26.9	20.0	13.6	9.12	10.5	15.1	9.28	14.5	27.2	50.1	62.2	68.7
MAX	31	26	17	12	13	34	14	71	211	164	324	362
MIN	24	16	9.0	7.0	8.0	10	7.0	6.2	5.9	31	36	25
AC-FT	1,660	1,190	837	561	584	930	552	891	1,620	3,080	3,830	4,090
CAL YEAR 2002	TOTAL	10,585.30	MEAN	29.0	MAX	336	MIN	5.6	AC-FT	21,000		
WTR YEAR 2003	TOTAL	9,990.40	MEAN	27.4	MAX	362	MIN	5.9	AC-FT	19,820		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

SHEEP CREEK near Morrill, 06678000 - 2003

LOCATION.--NW1/4SW1/4 Sec. 16-23-57 W., Scotts Bluff County, Lat. 41° 57' 50", Long. 103° 56' 20", on left bank 40 feet upstream from Burlington Northern Inc. railroad bridge, 50 feet downstream and 20 feet east from bridge on U.S. Highway 26, one mile west of Morrill and 1.5 miles upstream from mouth.

DRAINAGE AREA.--362 square miles, approximately 337 square miles contributes to surface runoff.

GAGE.--Continuous stage recorder. Gage datum 3,995.04 feet above sea level.

PERIOD OF RECORD.--Oct. 1931 to present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Records are good except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 516 cubic feet per second July 21, 1978, gage height 6.62 feet; minimum daily discharge 0.1 cubic feet per second December 16, 23, 1956, January 18, March 12, 1957, result of diversion for construction upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharge 102 cubic feet per second September 26, gage height 2.19 feet; minimum daily discharge 2.3 cubic feet per second July 1 & 2.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	57	55	58	55	59	51	50E	36	2.3	3.3	57
2	40 E	58	55	59	55	55	52	50	36	2.3	3.3	55
3	58 E	57	53	58	56	54	49	50	37	2.4	3.4	26
4	58 E	58	53	57	55	57	48	50	38	2.7	3.3	6.0
5	58 E	58	53	57	56	57	48	50	35	2.8	3.5	5.6
6	58 E	57	52	57	59	58	50	50	36	2.9	3.5	5.3
7	58 E	59	51	57	58	58	49	51	37	3.0	3.5	5.2
8	58 E	60	50	57	58	57	49	54	35	3.1	3.5	4.9
9	58 E	63	52	56	58	57	49	54	36	3.2	3.6	4.7
10	58 E	62	51	56	57	58	50	53	37	3.3	3.7	4.3
11	60 E	61	52	56	57	58	48	53	37	3.3	3.8	4.0
12	60 E	59	53	56	57	58	49	52	36	3.4	4.0	3.8
13	60 E	57	53	56	56	58	50	51	34	3.4	4.1	3.7
14	60 E	56	52	56	57	59	48E	50	35	3.4	3.9	3.5
15	60 E	54	50	55	56	59	46E	48	35	3.6	3.9	3.4
16	60	54	50	54	56	59	50E	49	35	3.6	3.9	3.1
17	61	56	55	55	52	60	57	48	36	3.5	4.0	3.0
18	60	54	54	55	54	64	57	49	34	3.6	4.0	3.1
19	60	51	54	55	56	66	55	48	33	3.7	3.8	2.9
20	60	53	55	56	57	64	56	48	31	3.9	3.9	2.9
21	59	56	55	56	57	62	55	48	31	3.8	3.9	3.0
22	59	56	55	56	56	60	53	45	29	3.8	4.0	4.0
23	60	56	55	56	56	58	54	45	31	3.8	3.9	5.3
24	60	57	56	55	56	57	53	44	16	3.7	3.8	5.2
25	61	55	56	55	56	56	53	45	3.9	3.7	3.9	5.2
26	60	55	56	55	55	55	53	44	3.2	3.6	3.8	20
27	60	55	57	55	55	57	52	41	2.8	3.8	3.7	40
28	59	56	56	55	57	52	51	35	2.7	3.6	15	40
29	60	56	58	55	-----	51	50E	34	2.8	3.4	44	40
30	58	55	58	54	-----	51	50E	34	2.4	3.4	47	43
31	58	-----	58	55	-----	50	-----	36	-----	3.3	61	-----
TOTAL	1,761.7	1,701	1,673	1,733	1,573	1,784	1,535	1,459	833.8	103.3	267.9	413.1
MEAN	56.8	56.7	54.0	55.9	56.2	57.5	51.2	47.1	27.8	3.33	8.64	13.8
MAX	61	63	58	59	59	66	57	54	38	3.9	61	57
MIN	2.7	51	50	54	52	50	46	34	2.4	2.3	3.3	2.9
AC-FT	3,490	3,370	3,320	3,440	3,120	3,540	3,040	2,890	1,650	205	531	819
CAL YEAR 2002	TOTAL	16,308.7	MEAN	44.7	MAX	85	MIN	1.9	AC-FT	32,350		
WTR YEAR 2003	TOTAL	14,837.8	MEAN	40.7	MAX	66	MIN	2.3	AC-FT	29,430		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

ENTERPRISE CANAL from North Platte River, 00040000 - 2003

LOCATION.--NE1/4NW1/4 Sec. 27-23-57 W. near Morrill

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1916, 1919 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	44	68	64	111
2								0	46	51	70	102
3								0	47	61	81	90
4								0	48	67	80	71
5								19	49	66	79	79
6								36	50	62	79	98
7								34	50	59	79	115
8								33	51	59	79	115
9								34	52	63	80	115
10								33	53	67	81	108
11								31	53	62	83	100
12								31	53	57	83	86
13								31	56	60	81	85
14								30	64	62	80	84
15								30	59	68	78	87
16								30	57	82	73	96
17								30	56	86	71	94
18								30	56	78	78	96
19								34	55	70	88	95
20								41	53	67	88	94
21								41	56	69	88	94
22								42	54	80	85	100
23								43	54	79	91	84
24								42	62	76	89	90
25								44	77	75	83	78
26								46	78	75	81	78
27								47	62	75	78	76
28								47	57	77	82	75
29					-----			47	61	74	133	65
30					-----			45	71	69	103	67
31		-----			-----		-----	45	-----	67	110	-----
TOTAL								996	1,684	2,131	2,598	2,728
MEAN								32.1	56.1	68.7	83.8	90.9
MAX								47	78	86	133	115
MIN								0	44	51	64	65
AC-FT								1,980	3,340	4,230	5,150	5,410
CAL YEAR 2002	MAX	110	MIN	0	AC-FT	16,590						
WTR YEAR 2003	MAX	133	MIN	0	AC-FT	20,110						

NORTH PLATTE RIVER BASIN

DRY SPOTTED TAIL CREEK at Mitchell, 06679000 - 2003

LOCATION.--SE1/4SE1/4 SEC. 20-23-56 W., Scotts Bluff County, Lat. 41° 56' 45", Long. 103° 49' 35", on right bank 5 feet upstream from bridge on county road, 0.8 mile upstream from mouth, and 1 mile west of the intersection of U.S. Highway 26 and State Highway 29 in Mitchell.

DRAINAGE AREA.--77.2 square miles.

GAGE.--Continuous stage recorder. Gage datum is 3,943.75 feet National Geodetic Vertical Datum. Datum 1.00 foot higher before October 1, 1958.

PERIOD OF RECORD.--1948 - present

REMARKS.--Published by U. S. Geological Survey up to October 1, 1979. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 2,010 cubic feet per second June 24, 1951, gage height 8.55 feet; minimum daily discharge 1.6 cubic feet per second June 28, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge 156 cubic feet per second July 20, gage height 1.79 feet; minimum daily discharge, 7.0 cubic feet per second June 1.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	17	18	16	15E	14	13	11	7.0	45	51	55
2	19	18	18	15	15E	14	12	11	7.2	37	48	37
3	23	18	18	16	15	14	13	11	8.0	52	46	29
4	24	20	18	16	14	14	13	11	9.0	60	47	21
5	23	20	17	16	14	14	13	23	8.9	36	45	22
6	22	20	18	16	14	14	13	41	8.7	37	46	28
7	21	20	18	16	13	13	14	37	9.4	37	50	34
8	20	20	17	16	14	12	13	42	9.3	38	51	33
9	20	19	18	16	14	12	13	44	11	36	52	34
10	20	20	18	15	13	12	13	41	11	36	50	37
11	20	20	18	15	14	13	13	43 E	11	37	50	36
12	19	19	18	15	14	12	13	44 E	12	38	51	31
13	20	19	18	16	14	13	12	29 E	11	44	52	32
14	19	19	18	16	14	12	11	20 E	15	41	51	29
15	19	19	18	15	14	12	12	23 E	12	40	50	30
16	19	19	19	16	14	12	10	20 E	11	40	53	38
17	18	19	19	15	15	12	11	18	11	41	56	37
18	18	19	18	16	14	13	11	18	12	45	56	38
19	18	19	18	16	14	15	12	18	12	48	58	36
20	18	20	18	16	13	14	11	20	12	60	55	36
21	17	20	18	16	14	12	12	19	12	56	53	34
22	18	20	18	15	14	12	12	20	12	49	52	34
23	19	19	18	15	13	12	12	18	13	46	53	30
24	18	18	18	16	13	12	12	18	19	42	48	25
25	18	18	17	16	14	12	12	17	34	42	48	25
26	18	18	17	16	14	12	11	13	35	46	48	35
27	18	19	18	16E	14	13	11	11	27	58	47	34
28	18	18	18	16E	14	12	11	9.0	28	56	48	31
29	18	18	18	16E	-----	12	11	7.4	43	52	65	28
30	17	18	18	16E	-----	12	11	7.2	46	52	67	26
31	17	-----	18	16E	-----	13	-----	7.3	-----	52	70	-----
TOTAL	592	570	556	488	391	395	361	671.9	477.5	1,399	1,617	975
MEAN	19.1	19.0	17.9	15.7	14.0	12.7	12.0	21.7	15.9	45.1	52.2	32.5
MAX	24	20	19	16	15	15	14	44	46	60	70	55
MIN	16	17	17	15	13	12	10	7.2	7.0	36	45	21
AC-FT	1,170	1,130	1,100	968	776	783	716	1,330	947	2,770	3,210	1,930
CAL YEAR 2002	TOTAL	8,214.60	MEAN	22.5	MAX	73	MIN	7.4	AC-FT	16,290		
WTR YEAR 2003	TOTAL	8,493.40	MEAN	23.3	MAX	70	MIN	7.0	AC-FT	16,850		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER at Mitchell, 06679500 - 2003

LOCATION.--NE1/4NE1/4 Sec. 33-23-56 W., Scotts Bluff County, Lat. 41° 55' 38", Long. 103° 48' 48", on right bank 10 feet downstream from bridge on County Highway, 0.5 mile south of Mitchell.

DRAINAGE AREA.--24,300 square miles, approximately 22,300 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 3,928.3 feet above sea level.

PERIOD OF RECORD.--June 1901 to September 1910, periodic record 1911 to 1918, continuous May 1920 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 27,500 cubic feet per second June 3, 1909, gage height 6.45 feet, datum then in use; maximum gage height 7.80 feet May 29, 1984; minimum daily discharge 54 cubic feet per second May 3, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharge 891 cubic feet per second July 19, gage height 2.76 feet; minimum daily discharge 96 cubic feet per second June 6, 19, 20.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	820	415	364	325	305	265	295	284	100	199	291	723
2	678	425	364	320	305	261	290	290	97	187	248	649
3	551	427	361	322	306	279	289	293	98	168	219	594
4	484	424	359	322	301	271	287	298	98	214	212	360
5	437	420	358	320	292	268	285	282	97	226	201	280
6	403	416	355	320	285	271	294	299	96	216	185	235
7	381	418	354	317	275	275	295	250	98	193	184	294
8	365	417	351	316	281	268	293	210	97	173	179	299
9	357	412	351	310E	281	265	289	208	98	166	183	293
10	346	407	350	310E	280	266	284	193	99	180	181	288
11	335	406	353	310E	276	269	281	188	99	176	182	266
12	325	402	349	310E	274	272	279	184	100	167	186	221
13	321	401	346	310E	277	260	276	170	100	181	188	194
14	321	397	349	310E	279	260	273	157	109	190	183	183
15	318	394	346	309	278	264	272	152	99	205	181	176
16	320	392	341	303	275	252	271	151	98	259	181	168
17	315	392	344	303	274	256	268	148	99	318	179	165
18	307	388	341	306	270	282	275	148	97	341	183	167
19	304	384	333	307	266	337	273	148	96	491	207	163
20	302	380	327	311	265	333	273	135	96	643	208	162
21	294	379	332	309	265	347	271	133	98	499	203	158
22	287	378	327	302	261	373	269	132	97	471	190	156
23	282	375	324	298	256	345	286	129	100	434	194	161
24	291	375	322	309	240	316	295	128	114	393	198	241
25	287	372	319	308	239	306	290	127	200	359	187	459
26	281	362	317	305	249	298	286	124	223	353	186	622
27	280	367	322	310	262	310	283	121	172	437	180	731
28	276	370	325	308	272	312	280	115	142	454	179	574
29	279	371	329	305	-----	303	282	108	164	410	421	460
30	324	366	327	303	-----	300	282	104	193	371	544	412
31	405	-----	323	304	-----	300	-----	102	-----	327	684	-----
TOTAL	11,276	11,832	10,563	9,622	7,689	8,984	8,466	5,511	3,474	9,401	7,127	9,854
MEAN	364	394	341	310	275	290	282	178	116	303	230	328
MAX	820	427	364	325	306	373	295	299	223	643	684	731
MIN	276	362	317	298	239	252	268	102	96	166	179	156
AC-FT	22,370	23,470	20,950	19,090	15,250	17,820	16,790	10,930	6,890	18,650	14,140	19,550
CAL YEAR 2002	TOTAL	105,072	MEAN	288	MAX	820	MIN	84	AC-FT	208,400		
WTR YEAR 2003	TOTAL	103,799	MEAN	284	MAX	820	MIN	96	AC-FT	205,900		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

TUB SPRINGS near Scottsbluff, 06680000 - 2003

LOCATION.--SW1/4SW1/4 Sec. 33-23-55 W., Scotts Bluff County, Lat. 41° 54' 55", Long. 103° 42' 55", upstream from bridge, 0.2 miles downstream from headgates of Enterprise Canal, 1.5 miles upstream from mouth, and 3.5 miles northwest of Scottsbluff.

DRAINAGE AREA.--Undetermined, channel serves as a drain for return flow from irrigation districts.

GAGE.--Continuous stage recorder; datum of gage is 3,926.54 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1948 - present

REMARKS.--Published by United States Geological Survey from 1948 - 1979. Records are good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 1610, June 21, 1952 on basis of slope-area measurement of peak flow caused by break in Interstate Canal, no gage height determined; minimum daily discharge 0.70 cubic feet per second May 7, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 213 cubic feet per second September 9, gage height 2.20 feet; minimum daily discharge 5.9 cubic feet per second June 18 - 20.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	26	23	21	18	19	16	16	14	24	8.2	30
2	27	25	23	21	18	19	16	16	15	17	6.0	26
3	31	24	23	21	18	19	16	16	16	17	11	22
4	32	24	23	20	18	19	16	16	17	19	10	18
5	31	24	23	20	18	18	16	15	18	20	11	14
6	30	24	23	20	18	18	17	15	18	14	13	19
7	30	24	23	20	18	18	16	15	19	10	12	22
8	30	24	23	20	18	18	17	16	19	8.4	11	25
9	30	24	23	20	18	18	17	16	18	6.1	11	60
10	29	24	23	20	18	18	17	16	19	8.0	12	40
11	28	24	23	19	18	17	17	15	19	7.5	10	38
12	29	24	23	19	18	18	17	15	25	7.0	10	41
13	28	24	23	19	18	18	16	15	19	7.9	10	38
14	28	24	23	19	18	18	16	22	21	8.2	10	38
15	28	24	23	19	18	18	16	21	21	7.8	10	38
16	28	24	23	19	18	18	16	16	21	6.3	7.8	42
17	27	24	23	19	18	18	15	13	21	6.0	7.3	42
18	27	24	22	18	19	20	16	14	21	9.8	8.5	43
19	27	24	22	19	19	19	16	13	21	10	8.4	41
20	27	24	22	19	20	17	16	16	21	11	8.2	41
21	27	24	22	19	19	15	15	17	22	11	8.6	41
22	27	24	21	19	19	15	16	16	21	8.8	9.8	41
23	27	24	21	19	19	15	16	14	23	8.2	9.3	42
24	27	24	21	19	19	16	16	13	25	8.7	8.7	42
25	27	24	21	19	19	16	16	13	27	7.7	8.6	43
26	27	24	21	19	19	17	16	16	25	13	9.0	55
27	26	24	21	19	19	18	15	13	23	47	8.7	57
28	26	24	21	19	19	17	15	13	21	17	9.9	55
29	25	24	21	18	-----	17	15	12	22	9.5	24	53
30	26	24	21	18	-----	17	15	15	24	8.4	26	54
31	26	-----	21	18	-----	16	-----	15	-----	7.3	32	-----
TOTAL	861	723	689	598	516	544	481	474	616	371.6	350.0	1,161
MEAN	27.8	24.1	22.2	19.3	18.4	17.5	16.0	15.3	20.5	12.0	11.3	38.7
MAX	32	26	23	21	20	20	17	22	27	47	32	60
MIN	23	24	21	18	18	15	15	12	14	6.0	6.0	14
AC-FT	1,710	1,430	1,370	1,190	1,020	1,080	954	940	1,220	737	694	2,300
CAL YEAR 2002	TOTAL	9,461.00	MEAN	25.9	MAX	56	MIN	13	AC-FT	18,770		
WTR YEAR 2003	TOTAL	7,384.60	MEAN	20.2	MAX	60	MIN	6.0	AC-FT	14,650		

NORTH PLATTE RIVER BASIN

WINTERS CREEK CANAL from North Platte River, 00148000 - 2003

LOCATION.--NE1/4SE1/4 Sec. 17-22-55 W. near Scottsbluff

GAGE.--Continuous stage recorder and 8 ft. Parshall flume

PERIOD OF RECORD.--1916, 1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0						0	0	15	27	28	28
2	0						0	0	15	26	26	30
3	0						0	0	16	25	25	26
4	0						0	0	15	30	24	21
5	0						0	0	16	31	23	20
6	0						0	0	16	31	23	24
7	0						0	0	16	30	23	25
8	0						0	0	17	28	23	23
9	0						0	0	16	26	24	23
10	0						0	0	17	27	24	23
11	0						0	0	16	26	25	22
12	0						0	0	18	25	26	21
13	0						0	5.3	17	25	27	20
14	0						0	11	18	26	27	20
15							0	9.7	16	26	27	20
16							0	9.6	15	29	26	18
17							0	9.6	15	33	27	16
18							0	9.3	15	32	28	15
19							0	9.4	14	32	29	14
20							0	7.6	14	34	29	14
21							0	7.2	14	29	30	14
22							0	11	13	28	29	14
23							0	15	13	27	29	13
24						0	0	16	14	27	30	13
25						0	0	16	16	28	30	15
26						0	0	16	16	29	29	16
27						0	0	16	15	32	29	8.9
28						0	0	18	17	32	29	1.3
29					-----	0	0	17	20	31	36	1.0
30					-----	0	0	16	24	30	43	.34
31		-----			-----	0	-----	16	-----	29	37	-----
TOTAL	0					0	0	235.7	479	891	865	519.54
MEAN	0					0	0	7.60	16.0	28.7	27.9	17.3
MAX	0					0	0	18	24	34	43	30
MIN	0					0	0	0	13	25	23	.34
AC-FT	0					0	0	468	950	1,770	1,720	1,030
CAL YEAR 2002	MAX	31	MIN	0	AC-FT	5,640						
WTR YEAR 2003	MAX	43	MIN	0	AC-FT	5,930						

NORTH PLATTE RIVER BASIN

WINTERS CREEK CANAL from Winters Creek, 00149000 - 2003

LOCATION.--SW1/4NE1/4 SEC. 19-22-54 W. near Scottsbluff

GAGE.--Continuous stage recorder and 8 ft. Parshall flume

PERIOD OF RECORD.--1919 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	0						0	0	17	25	42	40	
2	0						0	0	18	24	42	38	
3	0						0	0	18	25	42	38	
4	0						0	0	19	21	43	38	
5	0						0	0	20	20	42	39	
6	0						0	0	20	20	42	38	
7	0						0	0	20	19	42	37	
8	0						0	0	19	9.4	42	36	
9	0						0	0	17	19	43	33	
10	0						0	0	17	21	43	32	
11	0						0	0	17	22	44	32	
12	0						0	0	19	24	45	32	
13	0						0	0	20	26	44	30	
14	0						0	0	19	27	44	29	
15	0						0	3.6	20	26	44	26	
16							0	10	18	27	45	23	
17							0	12	19	26	44	23	
18							0	15	19	28	44	20	
19							0	14	18	29	44	18	
20							0	16	19	29	42	12	
21							0	17	17	33	41	7.6	
22							0	18	16	32	42	7.5	
23							0	15	16	32	42	7.7	
24							0	12	18	33	41	7.6	
25							0	14	19	32	41	7.3	
26							0	14	18	33	42	6.8	
27							0	14	25	52	41	2.3	
28							0	14	23	53	45	0	
29					-----		0	14	24	47	46	0	
30					-----		0	17	27	42	46	0	
31		-----			-----		0	17	-----	42	44	-----	
TOTAL	0						0	0	236.6	576	898.4	1,334	660.8
MEAN	0						0	0	7.63	19.2	29.0	43.0	22.0
MAX	0						0	0	18	27	53	46	40
MIN	0						0	0	0	16	9.4	41	0
AC-FT	0						0	0	469	1,140	1,780	2,650	1,310
CAL YEAR 2002	MAX	51	MIN	0	AC-FT	8,380							
WTR YEAR 2003	MAX	53	MIN	0	AC-FT	7,350							

NORTH PLATTE RIVER BASIN

CENTRAL CANAL from North Platte River, 00022000 - 2003

LOCATION.--NW1/4NW1/4 Sec. 36-22-55 W. near Gering

GAGE.--Continuous stage recorder and concrete box

PERIOD OF RECORD.--1919 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	0						0	0	23	31	34	34	
2	0						0	0	22	37	34	33	
3	0						0	0	21	33	34	32	
4	0						0	0	13	33	33	32	
5	0						0	0	5.8	32	32	31	
6	0						0	0	6.6	33	33	31	
7	0						0	0	17	33	33	31	
8	0						0	0	20	32	33	31	
9	0						0	0	20	31	34	30	
10	0						0	0	23	33	32	25	
11	0						0	0	21	32	31	21	
12	0						0	0	23	34	33	20	
13	0						0	0	25	32	34	19	
14	0						0	2.8	25	34	33	18	
15	0						0	10	25	29	32	19	
16	0						0	17	24	0	31	19	
17							0	22	25	22	31	16	
18							0	22	28	26	30	14	
19							0	22	31	26	30	12	
20							0	22	29	25	30	12	
21							0	22	28	25	30	12	
22							0	22	35	25	31	13	
23							0	21	34	25	34	13	
24							0	0	21	35	25	14	
25							0	0	21	35	24	15	
26							0	0	22	35	31	14	
27							0	0	23	30	31	14	
28							0	0	24	27	30	13	
29					-----		0	0	24	31	31	12	
30					-----		0	0	24	31	31	12	
31		-----			-----		0	-----	24	-----	32	34	-----
TOTAL	0						0	0	365.8	748.4	898	1,015	612
MEAN	0						0	0	11.8	24.9	29.0	32.7	20.4
MAX	0						0	0	24	35	37	37	34
MIN	0						0	0	0	5.8	0	30	12
AC-FT	0						0	0	726	1,480	1,780	2,010	1,210
CAL YEAR 2002	MAX	35	MIN	0	AC-FT	6,820							
WTR YEAR 2003	MAX	37	MIN	0	AC-FT	7,220							

NORTH PLATTE RIVER BASIN

WINTERS CREEK near Scottsbluff, 06681000 - 2003

LOCATION.--NW1/4SE1/4 Sec. 30-22-54 W., Scotts Bluff County, Lat. 41° 51' 08", Long. 103° 37' 35", on right bank 700 feet downstream from bridge on U.S. Highway 26, one mile upstream from mouth, 1.5 miles east of Scottsbluff.

GAGE.--Continuous stage recorder. Gage datum is 3,859.8 feet National Geodetic Datum of 1929.

PERIOD OF RECORD.--1931 - present

REMARKS.--Published by U.S. Geological Survey up to October 1, 1979. Records are good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 1,160 cubic feet per second June 21, 1977, gage height 8.07 feet; maximum gage height 9.34 feet, present datum, January 7, 1949 due to backwater from snow drifts; minimum daily discharge 0.9 cubic feet per second July 5, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharge 153 cubic feet per second June 26, gage height 3.07 feet; minimum daily discharge 11 cubic feet per second July 1 & 2.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	45	36	31	29	26	34	29	16	11	20	34
2	51	45	36	30	29	26	34	28	16	11	20	34
3	52	45	35	31	29	26	34	28	17	12	20	34
4	51	45	35	33	29	26	34	28	16	14	22	34
5	50	44	35	33	28	26	34	28	17	15	22	32
6	49	44	35	33	29	26	34	28	20	14	23	29
7	49	43	35	34	28	27	33	28	19	15	23	31
8	49	43	35	33	29	25	33	29	20	24	20	32
9	49	43	34	33	29	27	33	28	20	13	21	34
10	48	42	34	32	29	28	34	29	21	12	20	35
11	48	41	34	31	29	27	32	29	21	12	19	35
12	48	41	34	32	28	27	31	30	21	12	20	35
13	48	40	34	32	28	26	31	30	22	12	20	37
14	47	40	33	31	28	26	30	29	24	14	20	39
15	48	39	33	32	27	26	30	22	25	17	21	42
16	48	39	33	32	26	26	30	19	24	18	21	45
17	47	39	33	31	27	27	31	24	24	19	22	43
18	46	39	33	31	27	29	37	26	23	18	22	52
19	47	38	32	30	26	28	36	27	22	20	22	55
20	47	37	33	30	26	27	36	25	25	22	23	57
21	46	37	34	30	25	27	35	26	25	20	23	58
22	46	37	33	29	26	27	34	21	24	21	23	60
23	47	37	31	30	26	28	35	23	24	21	23	61
24	46	37	31	30	25	29	34	22	22	21	24	57
25	45	37	30	29	26	32	34	19	22	24	25	57
26	45	36	31	29	26	33	34	19	31	25	25	56
27	45	36	32	30	26	35	34	19	17	65	26	56
28	44	37	32	30	27	34	33	19	12	82	28	53
29	44	36	32	29	-----	34	32	17	14	62	29	50
30	44	36	31	29	-----	35	29	17	12	20	31	51
31	44	-----	31	29	-----	35	-----	16	-----	18	35	-----
TOTAL	1,468	1,198	1,030	959	767	881	995	762	616	684	713	1,328
MEAN	47.4	39.9	33.2	30.9	27.4	28.4	33.2	24.6	20.5	22.1	23.0	44.3
MAX	52	45	36	34	29	35	37	30	31	82	35	61
MIN	44	36	30	29	25	25	29	16	12	11	19	29
AC-FT	2,910	2,380	2,040	1,900	1,520	1,750	1,970	1,510	1,220	1,360	1,410	2,630
CAL YEAR 2002	TOTAL	12,309.60	MEAN	33.7	MAX	104	MIN	6.7	AC-FT	24,420		
WTR YEAR 2003	TOTAL	11,401.00	MEAN	31.2	MAX	82	MIN	11	AC-FT	22,610		

NORTH PLATTE RIVER BASIN

MINATARE CANAL from North Platte River, 00099000 - 2003

LOCATION.--NW1/4SW1/4 Sec. 33-22-54 W. near Scottsbluff

GAGE.--Continuous stage recorder and 10 ft. Parshall flume

PERIOD OF RECORD.--1919 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38						0	34	62	73	99	104
2	39						0	41	62	84	108	95
3	39						0	41	63	101	113	83
4	40						0	37	61	102	114	74
5	42						0	30	55	114	113	75
6	42						0	30	49	116	108	79
7	41						0	37	48	117	109	77
8	40						0	35	47	119	109	76
9	39						0	33	49	117	113	72
10	38						0	35	50	120	117	70
11	40						0	33	53	122	118	63
12	43						0	33	54	120	119	50
13	43						0	35	56	117	113	49
14	43						0	36	61	115	110	48
15	42						0	35	60	120	117	47
16	46						0	32	59	124	119	48
17	49						0	30	59	122	117	47
18	49						0	29	60	120	118	46
19	48						0	30	60	118	118	50
20	48						0	29	61	122	118	53
21	47						0	28	59	111	119	52
22	48						0	35	60	117	119	52
23	38						0	38	63	117	119	52
24	30					0	0	39	64	115	122	51
25	30					0	0	39	62	114	120	49
26	24					0	0	43	61	114	118	47
27	18					0	0	56	56	111	120	50
28	3.1					0	23	59	60	102	122	50
29					-----	0	28	59	68	97	117	47
30					-----	0	33	59	70	97	103	45
31		-----			-----	0	-----	61	-----	99	101	-----
TOTAL	1,087.1					0	84	1,191	1,752	3,457	3,550	1,801
MEAN	38.8					0	2.80	38.4	58.4	112	115	60.0
MAX	49					0	33	61	70	124	122	104
MIN	3.1					0	0	28	47	73	99	45
AC-FT	2,160					0	167	2,360	3,480	6,860	7,040	3,570
CAL YEAR 2002	MAX	122	MIN	0	AC-FT	27,710						
WTR YEAR 2003	MAX	124	MIN	0	AC-FT	25,630						

NORTH PLATTE RIVER BASIN

GERING CREEK near Gering, 06681500 - 2003

LOCATION.--SE1/4NE1/4 Sec. 6-21-54 W., Scotts Bluff County, Lat. 41° 49' 20", Long 103° 37' 02", on right bank 200 feet downstream from county road bridge, 0.2 mile downstream from bridge on State Highway 92, one mile upstream from the mouth, and two miles east of Gering.

GAGE.--Continuous stage recorder. Gage datum is 3,850.62 feet National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--Feb. 1931 - Sep. 1945, Oct. 1948 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 9,560 cubic feet per second June 8, 1958, gage height 18.3 ft. from high water mark; minimum daily discharge 5.0 cubic feet per second August 13, 16, 19, 1940.

EXTREMES FOR CURRENT YEAR.--Peak discharge 409 cubic feet per second August 31, gage height 4.33 feet; minimum daily discharge 15 cubic feet per second May 5, 20, 21, 24, 25, June 15 - 22.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	27E	22	20	19	19	17	17	16	45	84	116
2	34	26E	22	20	19	19	17	16	16	58	81	67
3	39	26E	22	20	19	19	17	16	18	48	84	28
4	44	26	22	20	19	19	17	16	17	54	80	27
5	41	26	22	20	19	20	17	15	16	60	69	27
6	39	26	22	20	18	20	18	17	16	50	74	27
7	38	25	21	20	18	20	17	17	16	55	72	26
8	36	25	21	20	19	19	17	28	16	57	68	26
9	34	24	21	19	19	18	17	42	18	57	67	27
10	33	24	21	19	19	18	17	43	19	56	65	26
11	28	23	20	18	18	18	16	42	17	52	70	25
12	27	23	20	19	18	18	16	38	17	50	65	25
13	27	23	20	19	18	17	16	19	24	51	57	31
14	27	23	21	19	18	17	16	18	32	52	59	34
15	28	22	20	19	17	17	17	17	15	52	59	38
16	27	22	20	18	18	17	16	17	15	51	59	43
17	27	22	22	18	18	17	16	17	15	53	59	43
18	27E	22	21	19	17	22	20	16	15	56	58	42
19	27	22	20	19	17	24	18	16	15	60	60	40
20	27E	22	20	19	17	19	18	15	15	60	64	40
21	27E	22	20	19	17	21	18	15	15	69	61	39
22	27E	22	20	18	18	20	17	17	15	75	61	41
23	27E	22	19	18	17	18	17	16	16	70	58	41
24	26E	22	19	18	17	18	17	15	19	66	55	39
25	26E	22	19	18	17	17	17	15	85	69	56	38
26	26E	21	19	18	17	18	17	16	127	75	63	38
27	27E	22	19	19	19	21	17	17	77	108	73	39
28	27E	23	21	19	19	18	16	16	41	108	86	38
29	28E	23	21	19	-----	17	17	16	37	96	116	39
30	28E	22	20	19	-----	18	17	16	41	94	149	34
31	27E	-----	20	19	-----	18	-----	16	-----	86	146	-----
TOTAL	945	700	637	589	505	581	510	617	821	1,993	2,278	1,144
MEAN	30.5	23.3	20.5	19.0	18.0	18.7	17.0	19.9	27.4	64.3	73.5	38.1
MAX	44	27	22	20	19	24	20	43	127	108	149	116
MIN	26	21	19	18	17	17	16	15	15	45	55	25
AC-FT	1,870	1,390	1,260	1,170	1,000	1,150	1,010	1,220	1,630	3,950	4,520	2,270

CAL YEAR 2002	TOTAL	12,132.00	MEAN	33.2	MAX	183	MIN	18	AC-FT	24,060
WTR YEAR 2003	TOTAL	11,320.00	MEAN	31.0	MAX	149	MIN	15	AC-FT	22,450

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

CASTLE ROCK - STEAMBOAT CANAL from North Platte River, 00021000 - 2003

LOCATION.--NE1/4SE1/4 Sec. 14-21-54 W. near Melbeta

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1916, 1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29						0	50	48	77	73	69
2	25						0	50	47	73	76	64
3	25						0	53	52	51	75	60
4	.99						0	58	51	56	76	56
5	0						0	59	57	74	71	53
6	0						0	62	60	81	73	64
7	0						0	65	59	86	74	63
8	0						0	64	57	89	72	56
9	0						0	62	56	83	75	57
10	0						0	60	60	92	78	57
11	0						0	59	63	85	78	53
12	0						0	56	66	83	77	51
13	0						0	53	66	85	77	49
14	0						0	50	73	83	75	49
15	0						0	54	65	85	69	50
16	0						0	59	65	84	65	50
17							0	59	68	86	78	50
18							0	59	68	88	76	53
19							0	61	68	88	75	51
20							0	60	68	90	75	50
21							8.9	60	68	83	73	52
22							18	57	62	81	73	49
23							18	52	55	82	75	48
24						0	22	51	55	82	80	47
25						0	31	50	19	79	81	49
26						0	30	50	0	76	80	51
27						0	30	47	0	73	79	51
28						0	36	49	0	75	81	47
29					-----	0	45	50	0	74	87	42
30					-----	0	50	54	43	69	87	48
31		-----			-----	0	-----	51	-----	71	80	-----
TOTAL	79.99					0	288.9	1,724	1,519	2,464	2,364	1,589
MEAN	5.00					0	9.63	55.6	50.6	79.5	76.3	53.0
MAX	29					0	50	65	73	92	87	69
MIN	0					0	0	47	0	51	65	42
AC-FT	159					0	573	3,420	3,010	4,890	4,690	3,150
CAL YEAR 2002	MAX	94	MIN	0	AC-FT	21,980						
WTR YEAR 2003	MAX	92	MIN	0	AC-FT	19,890						

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER near Minatare, 06682000 - 2003

LOCATION.--Main channel gage: SW1/4SW1/4 Sec. 18-21-53 W., Scotts Bluff County, Lat. 41° 47' 24", Long. 103° 31' 08", on right bank 15 feet downstream from bridge on State Highway 326, 1.8 mile southwest of Minatare; Nine Mile channel gage: NE1/4SE1/4 Sec. 13-21-54 W., Scotts Bluff County, Lat. 41° 47' 32", Long. 103° 31' 08", on left bank 20 feet upstream from bridge on State Highway 326 and 750 feet north of main channel bridge.

GAGE.--Continuous stage recorders operated on Main and Nine Mile channels. Main channel gage datum 3,807.0 feet above sea level; Nine Mile Channel gage datum 3,812.3 feet above sea level.

PERIOD OF RECORD.--Irrigation season 1916 - 1919 & 1922, June 1923 - present
(monthly discharges only for some periods)

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 19,500 cubic feet per second July 2, 1917, combined channel discharge; minimum daily discharge 11 cubic feet per second August 16 - 18, 1940, combined channel discharge.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,000 cubic feet per second October 1, combined channel discharge; minimum daily discharge 87 cubic feet per second July 10, combined channel discharge.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	944	593	586	493	447	452	479	365	93	142	314	785
2	946	603	585	485	440	455	473	354	93	134	285	735
3	841	613	573	491	435	459	463	351	104	116	259	658
4	757	613	567	489	435	457E	457	349	96	126	238	516
5	694	606	569	487	436	461E	452	340	103	139	202	379
6	638	610	564	484	431	471	479	332	112	139	189	328
7	611	621	558	483	430E	471	469	330	123	127	183	327
8	596	626	555	482	423	463	471	321	125	118	181	362
9	588	620	550	470E	429	455E	477	312	121	108	179	385
10	575	608	545	466E	429	462	471	312	120	87	169	429
11	564	597	538	454E	430	467	470	297	129	93	168	411
12	538	589	529	463E	432	462	464	289	128	95	160	425
13	539	585	525	473E	435	457	451	265	122	95	153	390
14	541	580	525	477E	441	455	444	229	152	103	150	380
15	522	570	523	469	441	448	439	194	148	107	150	369
16	516	566	518	461	443	445	425	172	136	142	143	365
17	516	570	522	462	442	447	408	168	126	173	128	347
18	508	560	516	457	440	480	399	165	124	196	129	356
19	495	548	506	461	442	546	383	161	125	227	138	352
20	494	546	503E	465	446	541	383	154	125	396	165	349
21	490	540	499	458	450	537	379	153	126	404	167	347
22	487	542	500	459E	449	538	375	150	135	348	164	350
23	509	538	506	444E	448E	536	385	140	119	326	151	358
24	556	543	502	445E	439E	522	397	137	123	306	146	359
25	586	541	497E	453	420E	507	387	131	189	290	138	455
26	578	528	497E	450	441E	501	388	128	313	281	144	626
27	576	550	495	458	443	521	388	122	300	428	159	780
28	582	604	501	459	450	505	372	110	177	550	179	800
29	616	604	501	453	-----	495	365	103	143	495	216	678
30	621	587	497	449	-----	493	365	95	145	402	447	636
31	608	-----	493	443	-----	488	-----	98	-----	344	687	-----
TOTAL	18,632	17,401	16,345	14,443	12,267	14,997	12,758	6,827	4,175	7,037	6,281	14,037
MEAN	601	580	527	466	438	484	425	220	139	227	203	468
MAX	946	626	586	493	450	546	479	365	313	550	687	800
MIN	487	528	493	443	420	445	365	95	93	87	128	327
AC-FT	36,960	34,510	32,420	28,650	24,330	29,750	25,310	13,540	8,280	13,960	12,460	27,840
CAL YEAR 2002	TOTAL	149,787	MEAN	410	MAX	946	MIN	69	AC-FT	297,100		
WTR YEAR 2003	TOTAL	145,200	MEAN	398	MAX	946	MIN	87	AC-FT	288,000		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

NINE MILE CANAL from North Platte River, 00106000 - 2003

LOCATION.--SW1/4SW1/4 SEC. 16-21-53 W. near Minatare

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1918 - 1919, 1921 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	16						28	13	18	75	34
2	29	6.5						27	16	24	58	20
3	28	0					0	28	18	17	53	19
4	29	0					0	29	18	0	36	16
5	29	0					0	29	19	0	25	8.6
6	28	0					0	30	20	0	33	13
7	28						0	30	20	0	46	17
8	28						0	29	21	0	64	17
9	24						0	28	20	0	55	18
10	20						0	25	22	0	48	13
11	19						0	17	35	0	58	11
12	18						0	28	49	0	40	12
13	18						0	67	29	0	27	14
14	18						0	70	31	0	24	18
15	18						0	56	29	0	25	17
16	18						0	28	29	0	25	15
17	17						0	37	30	0	21	15
18	17						5.9	25	33	.24	20	16
19	17						13	18	33	2.9	20	15
20	17						13	17	31	3.9	24	14
21	17						30	22	31	3.9	23	13
22	17						28	26	32	4.5	24	13
23	15						28	16	36	5.6	26	13
24	13						29	17	64	4.0	26	13
25	15						28	16	66	4.2	13	17
26	15						27	17	56	5.1	0	19
27	15						24	16	24	8.6	0	17
28	15						24	17	16	8.9	4.9	16
29	15				-----		27	17	18	6.7	23	13
30	16				-----		28	14	18	16	34	14
31	16	-----			-----		-----	14	-----	57	42	-----
TOTAL	619	22.5					304.9	838	877	190.54	992.9	470.6
MEAN	20.0	3.75					10.9	27.0	29.2	6.15	32.0	15.7
MAX	30	16					30	70	66	57	75	34
MIN	13	0					0	14	13	0	0	8.6
AC-FT	1,230	45					605	1,660	1,740	378	1,970	933
CAL YEAR 2002	MAX	45	MIN	0	AC-FT	8,000						
WTR YEAR 2003	MAX	75	MIN	0	AC-FT	8,560						

NORTH PLATTE RIVER BASIN

NINE MILE CANAL from Ninemile Creek, 00106100 - 2003

LOCATION.--SE1/4SW1/4 SEC. 10-21-53 W. near Minatare

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1988 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25						0	15	40	33	43	33
2	25						0	19	39	33	44	32
3	26						0	36	40	16	45	32
4	27						0	36	40	0	42	33
5	27						0	33	38	0	41	32
6	25						0	26	37	0	41	33
7	25						0	31	38	0	41	33
8	24						0	37	37	0	41	32
9	23						0	35	36	0	40	32
10	22						0	28	35	0	39	31
11	20						0	23	34	0	40	31
12	20						0	24	34	0	40	31
13	20						0	34	38	0	40	31
14	8.9						0	35	36	0	40	31
15	0						0	33	34	0	40	31
16	0						0	33	32	0	40	31
17	0						0	36	32	0	40	31
18							0	36	33	0	41	32
19							0	36	32	0	40	33
20							0	39	32	0	39	33
21							0	38	33	0	41	30
22							0	35	33	0	43	29
23							1.4	38	33	0	43	29
24							0	41	36	0	44	29
25							0	36	35	0	18	29
26							0	37	35	0	0	30
27							1.1	39	35	0	0	29
28						0	5.3	39	34	.20	13	29
29					-----	0	5.3	38	34	0	36	29
30					-----	0	11	39	34	10	34	30
31		-----			-----	0	-----	39	-----	42	35	-----
TOTAL	317.9					0	24.1	1,044	1,059	134.20	1,124	931
MEAN	18.7					0	.80	33.7	35.3	4.33	36.3	31.0
MAX	27					0	11	41	40	42	45	33
MIN	0					0	0	15	32	0	0	29
AC-FT	631					0	48	2,070	2,100	266	2,230	1,850
CAL YEAR 2002	MAX	65	MIN	0	AC-FT	11,970						
WTR YEAR 2003	MAX	45	MIN	0	AC-FT	9,190						

NORTH PLATTE RIVER BASIN

NINE MILE CREEK near McGrew, 06682500 - 2003

LOCATION.--SE1/4SE1/4 Sec. 23-21-53 W., Scotts Bluff County, Lat. 41° 46' 15", Long. 103° 25' 18", on right bank 65 feet upstream from county highway bridge, 0.5 mile upstream from mouth, and 1.5 miles north of McGrew.

PERIOD OF RECORD.--1932 - present

GAGE.--Continuous stage recorder. Altitude of gage is 3,780 feet from topographic map.

REMARKS.--Published by the U. S. Geological Survey up to October 1, 1979. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1,470 cubic feet per second, May 24, 1987, gage height 6.69 feet; minimum daily discharge 12 cubic feet per second May 13 & 14, 1991 and May 25, 2003.

EXTREMES FOR CURRENT YEAR.--Peak discharge 517 cubic feet per second July 28, gage height 4.79 feet; minimum daily discharge 12 cubic feet per second May 25.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	73	58	54	50	41	49	29	24E	33	99	97
2	78	70	60	54	49	41	43	32	26E	37	106	90
3	79	63	60	54	49	42	42	33	26	56	107	85
4	81	63	59	54	48	41	40	35	27	59	111	82
5	79	61	60	55	47	42	40	41	27	54	106	77
6	78	61	59	54	46	43	44	44	25	47	101	76
7	78	61	59	54	45	42	40	41	28	47	102	78
8	77	62	58	55	49	41	40	37	26	56	104	73
9	77	62	59	53	48	40	43	39	25	52	102	72
10	72	60	59	53	47	41	44	41	37	55	99	67
11	70	59	58	53	46	46	44	41	44	56	93	66
12	68	59	58	53	46	46	46	44	49	59	93	71
13	68	60	58	53	46	48	46	29	59	64	92	67
14	77	59	58	52	46	47	46	23	56	69	82	68
15	80	59	59	51	44	46	47	21	48	73	81	65
16	77	58	58	51	45	45	50	19	31	73	88	62
17	77	58	58	51	47	42	52	18	32	72	86	65
18	83	58	57	50	45	45	62	18	38	75	89	73
19	84	58	56	51	44	44	65	17	34	78	87	74
20	85	57	55	51	44	42	59	16	35	94	86	71
21	90	58	55	50	44	41	67	18	34	105	80	69
22	92	58	55	49	45	41	67	18	29	91	80	67
23	95	57	54	49	43	42	70	19	23	90	83	63
24	86	57	54	52	43E	47	64	18	25	88	80	60
25	84	57	54	51	42E	40	58	12	28	88	94	61
26	77	56	54	50	42	42	59	14	41	88	104	62
27	77	57	55	52	42	44	49	19	43	103	105	58
28	77	59	56	50	42	40	33	18	35	192	95	55
29	75	59	55	50	-----	39	44	14	50	140	88	50
30	74	58	55	49	-----	44	36	20E	43	122	96	51
31	74	-----	54	49	-----	49	-----	22E	-----	106	103	-----
TOTAL	2,450	1,797	1,767	1,607	1,274	1,334	1,489	810	1,048	2,422	2,922	2,075
MEAN	79.0	59.9	57.0	51.8	45.5	43.0	49.6	26.1	34.9	78.1	94.3	69.2
MAX	95	73	60	55	50	49	70	44	59	192	111	97
MIN	68	56	54	49	42	39	33	12	23	33	80	50
AC-FT	4,860	3,560	3,500	3,190	2,530	2,650	2,950	1,610	2,080	4,800	5,800	4,120
CAL YEAR 2002 TOTAL		22,758	MEAN	62.4	MAX	131	MIN	20	AC-FT	45,140		
WTR YEAR 2003 TOTAL		20,995	MEAN	57.5	MAX	192	MIN	12	AC-FT	41,640		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

SHORT LINE CANAL from North Platte River, 00133000 - 2003

LOCATION.--NW1/4SE1/4 Sec. 25-21-53 W. near McGrew

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1916, 1920 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	0					0	0	11	34	41	35
2	27	0					0	6.9	14	36	44	33
3	28	0					0	18	20	35	40	32
4	29	0					0	19	21	0	40	31
5	28	0					0	20	22	0	41	32
6	28	0					0	21	21	0	38	36
7	28						0	19	23	0	39	42
8	28						0	18	22	0	40	39
9	27						0	19	21	0	38	39
10	24						0	19	26	0	37	37
11	23						0	19	30	0	36	40
12	23						0	18	35	0	36	39
13	28						0	15	42	0	38	36
14	33						0	13	41	0	37	38
15	26						0	15	37	0	36	37
16	22						0	14	30	0	39	36
17	22						0	14	31	0	38	36
18	24						0	14	36	.17	40	41
19	26						0	15	34	.47	39	42
20	26						0	14	35	1.4	39	40
21	27						0	15	35	2.4	23	37
22	28						0	13	33	1.5	0	36
23	29						0	12	30	1.3	0	34
24	26						0	12	32	1.1	0	36
25	25						0	8.0	35	.98	0	36
26	21						0	8.2	45	.91	0	32
27	21						0	9.8	40	.81	13	31
28	17					0	0	8.6	36	1.3	27	30
29	6.9				-----	0	0	6.2	43	22	27	30
30	7.2				-----	0	0	8.4	40	42	33	32
31	4.8	-----			-----	0	-----	10	-----	47	36	-----
TOTAL	739.9	0				0	0	422.1	921	228.34	935	1,075
MEAN	23.9	0				0	0	13.6	30.7	7.37	30.2	35.8
MAX	33	0				0	0	21	45	47	44	42
MIN	4.8	0				0	0	0	11	0	0	30
AC-FT	1,470	0				0	0	837	1,830	453	1,850	2,130
CAL YEAR 2002	MAX	52	MIN	0	AC-FT	10,320						
WTR YEAR 2003	MAX	47	MIN	0	AC-FT	8,570						

NORTH PLATTE RIVER BASIN

CHIMNEY ROCK CANAL from North Platte River, 00024000 - 2003

LOCATION.--NE1/4SE1/4 Sec. 1-20-53 W. near Bayard

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1916 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	0					0	0	41	68	35	43
2	34	2.5					0	0	41	67	35	51
3	27	6.3					0	0	35	62	44	55
4	26	3.7					0	4.6	21	66	54	56
5	27	0					0	15	17	65	48	53
6	24	0					0	31	17	63	41	51
7	27	0					0	29	18	62	40	56
8	33						0	20	22	62	47	57
9	33						0	26	34	62	47	50
10	33						0	27	35	62	50	40
11	39						0	28	35	62	58	23
12	46						0	25	29	62	60	37
13	49						0	20	29	61	60	33
14	48						0	15	36	64	60	36
15	39						0	19	41	33	60	41
16	25						0	20	43	35	59	37
17	28						0	19	40	50	58	37
18	28						0	29	45	63	57	38
19	28						0	41	51	62	56	42
20	28						0	43	49	68	58	40
21	29						0	48	49	66	60	29
22	28						0	48	50	62	59	24
23	28						0	37	49	60	57	36
24	24						0	37	40	60	54	36
25	16						0	41	52	59	52	33
26	22						0	44	60	59	53	35
27	20						0	44	52	56	54	40
28	18					0	0	45	61	46	56	45
29	19				-----	0	0	44	58	33	60	40
30	19				-----	0	0	39	64	32	66	36
31	7.8	-----			-----	0	-----	41	-----	42	41	-----
TOTAL	886.8	12.5				0	0	879.6	1,214	1,774	1,639	1,230
MEAN	28.6	1.79				0	0	28.4	40.5	57.2	52.9	41.0
MAX	49	6.3				0	0	48	64	68	66	57
MIN	7.8	0				0	0	0	17	32	35	23
AC-FT	1,760	25				0	0	1,740	2,410	3,520	3,250	2,440
CAL YEAR 2002	MAX	92	MIN	0	AC-FT	19,280						
WTR YEAR 2003	MAX	68	MIN	0	AC-FT	15,150						

NORTH PLATTE RIVER BASIN

ALLIANCE CANAL from Bayard Creek, 00002000 - 2003

LOCATION.--NW1/4SW1/4 Sec. 4-20-52 W. near Bayard

GAGE.--Continuous stage recorder and concrete box

PERIOD OF RECORD.--1924 - 1926, 1928 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	20					0	13	16	15	18	20
2	27	20					0	14	17	14	19	19
3	27	19					1.8	19	18	13	20	19
4	28	19					5.3	22	18	12	19	19
5	27	19					6.8	20	19	11	19	18
6	27	19					9.4	21	17	10	17	19
7	26	18					10	22	16	9.6	17	19
8	26	18					10	27	16	9.3	19	19
9	26	18					8.5	27	15	8.9	19	18
10	25	20					7.5	23	15	8.6	19	18
11	25	18					5.6	21	15	8.8	20	18
12	25	18					5.2	21	15	9.1	19	17
13	24	18					5.6	20	15	10	19	17
14	25	11					6.0	18	15	9.8	19	17
15	25	0					6.6	16	15	4.3	19	17
16	23						7.3	16	15	0	19	18
17	23						7.7	15	15	0	19	18
18	23						12	15	15	0	19	19
19	23						11	16	15	0	20	18
20	23						10	15	15	0	20	18
21	23						10	16	15	0	19	18
22	23						10	15	15	0	16	18
23	24						10	15	14	0	18	19
24	24						11	15	13	0	21	18
25	25						11	15	13	0	21	18
26	25						12	15	14	0	20	17
27	25						11	15	14	0	18	17
28	25					0	13	15	14	0	20	17
29	24				-----	0	16	15	14	0	19	18
30	23				-----	0	12	15	15	6.5	21	18
31	22	-----			-----	0	-----	16	-----	19	21	-----
TOTAL	768	255				0	252.3	548	458	178.9	593	543
MEAN	24.8	17.0				0	8.41	17.7	15.3	5.77	19.1	18.1
MAX	28	20				0	16	27	19	19	21	20
MIN	22	0				0	0	13	13	0	16	17
AC-FT	1,520	506				0	500	1,090	908	355	1,180	1,080
CAL YEAR 2002	MAX	33	MIN	0	AC-FT	8,940						
WTR YEAR 2003	MAX	28	MIN	0	AC-FT	7,130						

NORTH PLATTE RIVER BASIN

ALLIANCE CANAL from Red Willow Creek, 00003000 - 2003

LOCATION.--NW1/4SW1/4 Sec. 6-20-51 W. near Bayard

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1918 - 1926, 1928 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23							0	13	12	25	18
2	24							0	14	12	25	17
3	25						0	0	15	12	18	16
4	27						0	0	20	12	19	15
5	28						0	0	21	11	19	15
6	28						0	0	21	12	19	14
7	28						0	0	20	13	20	16
8	28						0	.02	20	13	20	16
9	28						0	4.5	19	13	19	16
10	28						0	7.3	19	14	18	14
11	27						0	7.2	18	14	20	14
12	25						0	7.0	18	14	20	13
13	25						0	8.0	17	15	19	13
14	25						0	9.5	15	15	19	13
15	24						0	9.8	15	12	18	13
16	13						0	11	14	0	18	13
17	0						0	11	15	0	19	13
18	0						0	13	15	0	19	14
19	0						0	13	15	0	19	14
20	0						0	12	15	0	20	14
21	0						0	12	15	0	20	13
22	0						0	13	15	0	19	13
23	0						0	15	13	0	18	13
24	0						0	21	12	0	17	13
25	0						0	17	13	0	17	3.4
26	0						0	16	14	0	18	5.3
27	0						0	16	14	0	18	9.7
28	0						0	14	7.6	0	19	7.8
29					-----		0	13	17	8.2	18	9.6
30					-----		0	14	14	21	18	15
31		-----			-----		-----	14	-----	25	19	-----
TOTAL	406						0	278.32	473.6	248.2	594	393.8
MEAN	14.5						0	8.98	15.8	8.01	19.2	13.1
MAX	28						0	21	21	25	25	18
MIN	0						0	0	7.6	0	17	3.4
AC-FT	805						0	552	939	492	1,180	781
CAL YEAR 2002	MAX	46	MIN	0	AC-FT	7,380						
WTR YEAR 2003	MAX	28	MIN	0	AC-FT	4,750						

NORTH PLATTE RIVER BASIN

BAYARD CREEK near Bayard, 06683000 - 2003

LOCATION.--NW1/4SW1/4 Sec. 4-20-52 W., Morrill County, Lat. 41° 44' 10", Long. 103° 19' 53", on left bank 600 feet upstream from mouth and 1.2 mile south of Bayard. Reached by driving one mile south of railroad tracks at Bayard on Highway 26 to access right-of-way road where Alliance Canal crosses highway. Then west on right-of-way along canal access road to abandoned canal siphon. Gage on left bank of stream in center of concrete box flume.

DRAINAGE AREA.--No definite drainage area. Flows affected by ground water withdrawals and irrigation diversion return flows.

GAGE.--Continuous stage recorder. Gage datum is 3,746.28 feet above sea level.

PERIOD OF RECORD.--1931 - present

REMARKS.--Published by U.S. Geological Survey up to October 1, 1979 as Bayard Sugar Factory Drain near Bayard. Records are good, estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 391 cubic feet per second July 3, 1956, gage height 4.32 feet; no flow June 1, 2, July 4 - 8, 1934, May 16, 17, 1936, August 8, 9, 1960, April 29, 30, May 4, 5, 1962, May 23 - 31, 1973.

EXTREMES FOR CURRENT YEAR.--Peak discharge 103 cubic feet per second July 28, gage height 1.75 feet; maximum gage height 3.03 feet February 24 due to ice conditions; minimum daily discharge 1.9 cubic feet per second April 17.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	3.2	15	15	12	12	11	2.1	3.5	8.0	19	12
2	13	3.0	15	15	12	12	9.9	2.6	3.9	7.1	21	11
3	14	2.9	15	15	12	12	6.9	3.9	4.1	6.7	20	12
4	15	3.1	15	15	12	11	4.6	5.5	3.9	5.8	19	13
5	13	3.5	15	14	12	11	4.1	3.4	4.5	4.6	19	13
6	12	3.2	15	14	12	16	4.1	3.6	3.4	4.1	13	12
7	12	3.0	15	14	12	22	3.9	5.1	3.1	3.8	13	12
8	11	3.0	15	13	12	20	3.7	12	3.4	3.6	17	13
9	11	2.8	15	12	12	20	3.5	8.9	2.6	4.2	16	21
10	10	2.6	15	11	12	19	3.2	3.8	2.7	4.2	17	18
11	9.3	2.5	15	11	12	19	2.8	3.7	2.4	3.5	18	18
12	7.4	2.4	15	10	11	18	2.7	4.2	2.7	3.7	19	18
13	7.9	2.4	15	11	11	16	2.6	3.2	3.1	5.4	20	17
14	12	8.8	16	11	11	15	2.5	2.5	3.5	5.2	18	18
15	11	17	16	12	11	14	2.4	2.0	3.7	13	17	19
16	8.0	16	15	13	11	13	2.1	2.0	4.3	14	18	21
17	6.7	16	15	13	11	12	1.9	2.0	4.4	12	19	25
18	6.8	16	15	13	11	15	2.5	2.1	3.4	13	19	33
19	7.6	16	15	13	11	15	2.3	2.2	3.4	14	22	32
20	7.8	16	15	12	11	13	2.1	2.3	3.7	15	23	31
21	7.0	16	15	12	11	11	2.1	2.3	4.1	20	18	29
22	7.9	16	14	11	11	10	2.1	2.9	3.9	19	11	22
23	9.2	15	13	12	12	9.7	2.1	2.7	5.0	17	14	16
24	9.0	15	13	11	12E	11	2.2	3.2	4.9	17	17	18
25	14	16	12	11	12E	11	2.3	2.7	5.1	17	16	21
26	13	15	12	11	12	12	2.3	2.5	5.3	21	12	21
27	12	15	13	12	12	13	2.3	2.4	5.4	28	9.9	21
28	12	16	16	12	12	13	2.4	2.6	4.4	47	13	21
29	9.0	16	15	12	-----	12	2.6	2.9	6.3	29	13	21
30	7.9	15	15	12	-----	13	2.1	3.0	7.1	19	14	28
31	6.5	-----	15	12	-----	12	-----	3.1	-----	23	15	-----
TOTAL	317.0	298.4	455	385	325	432.7	101.3	107.4	121.2	407.9	519.9	587
MEAN	10.2	9.95	14.7	12.4	11.6	14.0	3.38	3.46	4.04	13.2	16.8	19.6
MAX	15	17	16	15	12	22	11	12	7.1	47	23	33
MIN	6.5	2.4	12	10	11	9.7	1.9	2.0	2.4	3.5	9.9	11
AC-FT	629	592	902	764	645	858	201	213	240	809	1,030	1,160
CAL YEAR 2002	TOTAL	4,693.30	MEAN	12.9	MAX	30	MIN	1.4	AC-FT	9,310		
WTR YEAR 2003	TOTAL	4,057.80	MEAN	11.1	MAX	47	MIN	1.9	AC-FT	8,050		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

RED WILLOW CREEK near Bayard, 06684000 - 2003

LOCATION.--NE1/4NE1/4 SEC. 13-20-52 W., Morrill County, Lat. 41° 42' 51", Long. 103° 15' 10", on left bank 30 feet upstream from timber bridge, 0.2 mile downstream from Wild Horse Creek, 0.8 mile upstream from mouth, and 4.5 miles southeast of Bayard.

GAGE.--Continuous stage recorder. Gage datum is 3,717.29 feet above sea level.

PERIOD OF RECORD.--1931 - present

REMARKS.--Published by U.S. Geological Survey up to October 1, 1979. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 2,320 cubic feet per second July 3, 1956, gage height 8.33 feet, present datum; maximum gage height 8.8 feet May 10, 1942, from flood mark, present datum; minimum daily discharge 15 cubic feet per second April 23, 1935, April 26, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharge 205 cubic feet per second July 29, gage height 2.60 feet; maximum gage height for the year was 2.90 feet, June 28; minimum daily discharge 20 cubic feet per second June 17.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	60	55	39	38	35	35	44	46	30	80E	59
2	41	64	55	38	38	36	34	39	51	23	90E	56
3	44	64	55	39	38	36	34	38	59	24	76E	57
4	45	62	56	39	38	36	34	46	74	23	68E	55
5	48	59	56	39	38	36	35	51	90	25	54E	53
6	47	58	54	39	37	37	38	48	100E	24	49	53
7	46	59	53	39	36	37	35	51	120E	26	51	65
8	42	59	53	39	37	36	36	49	120E	27	61	67
9	41	57	52	38	36	36	38	62	50E	27	60	73
10	42	57	51	37	36	36	37	73	24	30	60E	52
11	44	56	51	37	36	36	37	61	23	27	58E	46
12	46	56	50	37	36	36	37	54	23	25	56E	44
13	47	55	49	37	36	36	36	43	30	27	51	43
14	50	53	48	37	37	36	36	49	39	24	48	43
15	40	49	47	36	36	37	36	49	37	40	48	40
16	49	47	47	35	36	37	34	43	29	45	44	38
17	69	46	47	35	36	39	35	41	20	42	43	38
18	60	45	46	36	37	45	43	43	25	42	41	44
19	59	44	44	36	37	44	40	43	21	46	47	44
20	61	46E	44	36	37	43	38	47	23	45	60	44
21	61	49	43	35	37	42	37	49	24	75	62	42
22	64	50	42	35	37	41	39	40	23	90	57	42
23	69	50	41	35	37E	41	43	38	26	64	48	42
24	64	52	41	36	36E	40	44	48	29	54	51	40
25	63	52	40	36	35E	39	43	42	27	52	48	58
26	63	51	40	36	35E	39	46	44	28	56	42	57
27	64	52	39	36	34	40	45	39	36	89	40	46
28	67	53	40	36	36	37	40	39	55	116	43	45
29	63	54	40	36	-----	36	46	41	30	126	51	49
30	64	53	39	36	-----	35	48	45	30	77	50	55
31	66	-----	39	37	-----	35	-----	44	-----	77	56	-----
TOTAL	1,668	1,612	1,457	1,142	1,023	1,175	1,159	1,443	1,312	1,498	1,693	1,490
MEAN	53.8	53.7	47.0	36.8	36.5	37.9	38.6	46.5	43.7	48.3	54.6	49.7
MAX	69	64	56	39	38	45	48	73	120	126	90	73
MIN	39	44	39	35	34	35	34	38	20	23	40	38
AC-FT	3,310	3,200	2,890	2,270	2,030	2,330	2,300	2,860	2,600	2,970	3,360	2,960
CAL YEAR 2002 TOTAL		19,165	MEAN	52.5	MAX	268	MIN	24	AC-FT	38,010		
WTR YEAR 2003 TOTAL		16,672	MEAN	45.7	MAX	126	MIN	20	AC-FT	33,070		

E indicates estimated records.

NORTH PLATTE RIVER BASIN

BELMONT CANAL from North Platte River, 00009000 - 2003

LOCATION.--NW1/4SW1/4 Sec. 20-20-51 W. near Bridgeport

GAGE.--Continuous stage recorder and 15 ft. Parshall flume

PERIOD OF RECORD.--1916 - 1950, 1962 - present

REMARKS.--Published as Belmont - Empire Canal from 1951 - 1961

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	7.4					6.6	60	57	83	82	87
2	54	0					15	54	55	79	87	85
3	50	0					22	42	64	81	89	85
4	44	0					34	38	75	84	90	83
5	42						33	41	76	82	92	81
6	40						40	28	81	104	91	76
7	41						38	46	84	95	92	72
8	37						35	69	86	86	93	72
9	33						35	69	82	84	92	74
10	32						34	75	81	85	92	76
11	37						31	78	81	87	92	80
12	52						32	76	81	89	91	82
13	51						43	65	79	90	92	83
14	49						41	44	79	90	92	84
15	48						39	57	78	73	92	87
16	43						35	71	81	0	92	88
17	43						31	57	85	0	93	86
18	56						42	60	85	61	92	85
19	55						40	53	84	74	93	85
20	54						33	56	83	74	96	85
21	53						28	49	83	74	96	85
22	53						26	38	82	88	94	85
23	56						38	51	82	117	90	84
24	60						44	75	86	115	90	83
25	53						65	58	85	111	88	83
26	45						82	47	93	96	89	87
27	45						80	49	95	90	87	84
28	44					0	74	78	90	91	86	83
29	36				-----	0	66	73	87	88	87	82
30	35				-----	0	63	63	84	86	90	81
31	11	-----			-----	0	-----	55	-----	82	91	-----
TOTAL	1,415	7.4				0	1,225.6	1,775	2,424	2,539	2,813	2,473
MEAN	45.6	1.85				0	40.9	57.3	80.8	81.9	90.7	82.4
MAX	63	7.4				0	82	78	95	117	96	88
MIN	11	0				0	6.6	28	55	0	82	72
AC-FT	2,810	15				0	2,430	3,520	4,810	5,040	5,580	4,910
CAL YEAR 2002	MAX	112	MIN	0	AC-FT	30,280						
WTR YEAR 2003	MAX	117	MIN	0	AC-FT	29,100						

NORTH PLATTE RIVER BASIN

BELMONT CANAL from Cedar Creek, 00010000 - 2003

LOCATION.--NE1/4SW1/4 Sec. 23-18-48 W. near Broadwater

GAGE.--Continuous stage recorder and concrete box

PERIOD OF RECORD.--1919, 1922 - 1923, 1926 - 1927, 1929 - 1943, 1948 - 1952, 1955 - 1964, 1966 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	2.0						3.5	2.9	2.1	1.9	3.8
2	0	1.9						3.6	3.0	1.7	2.2	3.7
3	1.1	1.9						3.7	3.0	2.4	2.5	3.6
4	2.8	1.9						3.6	2.9	3.4	2.8	2.9
5	2.2	1.8						3.5	3.0	3.3	2.6	2.1
6	2.2	1.7						3.2	3.0	4.3	2.6	2.9
7	2.2	1.6						4.1	3.1	4.2	3.0	2.4
8	2.2	1.6						4.2	3.0	5.0	2.9	3.2
9	2.2	1.6					0	3.4	3.0	3.7	3.2	3.8
10	2.2	1.5					0	2.8	2.9	2.6	3.8	3.8
11	2.2	1.5					0	2.5	2.6	2.6	3.6	4.0
12	2.2	1.5					0	2.1	2.6	3.4	2.8	4.0
13	2.2	1.4					0	1.9	3.0	3.3	2.1	3.7
14	2.3	.62					0	1.8	2.9	2.8	2.5	3.6
15	2.3						0	1.8	2.8	2.6	1.7	3.4
16	2.3						0	1.9	2.7	1.4	1.6	3.1
17	2.3						0	1.8	3.6	1.2	2.0	2.4
18	2.3						0	1.9	4.1	2.5	1.9	2.0
19	2.3						0	2.2	4.5	3.0	2.0	1.8
20	2.3						0	2.2	3.5	3.2	2.5	1.7
21	2.3						0	2.4	2.0	2.9	2.2	1.6
22	2.3						0	2.1	2.1	2.9	2.5	1.6
23	2.4						0	2.2	2.2	2.8	3.7	1.4
24	2.3						0	2.4	2.0	3.4	3.7	1.3
25	2.3						0	2.3	2.0	3.3	3.0	1.3
26	2.2						0	2.3	2.0	2.7	2.7	1.2
27	2.2						0	2.1	1.4	4.1	3.4	1.1
28	2.1						1.7	2.3	1.5	3.9	2.9	1.1
29	2.1				-----		3.0	2.5	2.2	3.8	3.0	.99
30	2.1				-----		3.6	2.7	1.8	2.9	2.8	.97
31	2.0	-----			-----		-----	2.8	-----	1.9	4.0	-----
TOTAL	64.1	22.52					8.3	81.8	81.3	93.3	84.1	74.46
MEAN	2.07	1.61					.38	2.64	2.71	3.01	2.71	2.48
MAX	2.8	2.0					3.6	4.2	4.5	5.0	4.0	4.0
MIN	0	.62					0	1.8	1.4	1.2	1.6	.97
AC-FT	127	45					16	162	161	185	167	148
CAL YEAR 2002	MAX	5.6	MIN	0	AC-FT	956						
WTR YEAR 2003	MAX	5.0	MIN	0	AC-FT	1,010						

NORTH PLATTE RIVER BASIN

EMPIRE CANAL from North Platte River, 00039000 - 2003

LOCATION.--SE1/4NE1/4 Sec. 19-20-51 W. near Bridgeport

GAGE.--Continuous stage recorder and 4 ft. Parshall flume

PERIOD OF RECORD.--1916, 1918 - 1919, 1921 - 1926, 1929 - 1945, 1948 - 1950, 1962 - present

REMARKS.--Published as Belmont - Empire Canal, 1951 - 1961

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	0					0	0	25	21	29	24
2	21	0					0	0	26	20	29	21
3	25	0					0	0	28	20	29	20
4	24	0					0	0	31	20	29	20
5	23						0	0	31	20	29	21
6	23						0	0	32	19	29	25
7	24						0	0	31	18	31	25
8	22						0	0	31	17	25	25
9	20						0	0	32	17	24	26
10	17						0	0	32	19	24	26
11	18						0	0	32	22	25	21
12	24						0	0	31	28	25	17
13	23						0	0	31	28	29	18
14	23						0	0	31	28	31	18
15	22						0	0	31	22	31	18
16	22						0	0	19	.45	31	13
17	16						0	0	9.2	.36	30	6.8
18	6.1						0	0	9.1	.56	27	7.0
19	5.9						0	0	9.1	.49	27	6.4
20	5.8						0	0	9.2	.49	27	6.3
21	5.5						0	0	9.3	.49	27	6.1
22	5.4						0	0	9.1	.46	27	5.7
23	5.4						0	0	8.9	.42	27	5.7
24	5.4						0	0	8.9	.42	27	5.7
25	11						0	0	9.0	.42	29	5.7
26	17						0	0	9.3	.37	29	5.3
27	17						0	0	9.5	.36	29	3.8
28	16						0	.20	9.5	.36	28	3.5
29	7.3				-----		0	.31	9.3	10	28	3.5
30	3.3				-----		0	.30	17	26	29	3.5
31	0	-----			-----		-----	15	-----	29	29	-----
TOTAL	468.1	0					0	15.81	610.4	389.65	870	413.0
MEAN	15.1	0					0	.51	20.3	12.6	28.1	13.8
MAX	25	0					0	15	32	29	31	26
MIN	0	0					0	0	8.9	.36	24	3.5
AC-FT	928	0					0	31	1,210	773	1,730	819
CAL YEAR 2002	MAX	35	MIN	0	AC-FT	6,480						
WTR YEAR 2003	MAX	32	MIN	0	AC-FT	5,490						

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER at Bridgeport, 06684500 - 2003

LOCATION.--Main channel gage: NW1/4NW1/4 Sec. 28-20-50 W., Morrill County, Lat. 41° 40' 54", Long. 103° 05' 52", on left bank 0.3 miles upstream from bridge on U.S. Highway 26, 0.8 miles north of Bridgeport.
Browns Creek channel gage: NW1/4NW1/4 Sec. 28-20-50 W., Morrill County, Lat. 41° 40' 55", Long. 103° 05' 53", on right bank 0.2 miles upstream from culvert on U.S. Highway 26, 0.8 miles north of Bridgeport.

DRAINAGE AREA.--25,300 square miles, of which approximately 23,300 square miles contributes directly to surface runoff.

GAGE.--Main channel: Continuous stage recorder. Datum is 3,656.14 feet National Geodetic Vertical Datum of 1929.
Browns Creek channel: Continuous stage recorder. Datum is 3,662.51 feet National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June 1896 - Oct. 1900, May 1902 - Nov. 1906, June to Aug. 1915, May 1916 - present. Published as "near Camp Clark" 1896 - 1900, (some years did not have winter record and some years only had a monthly record)

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Records are good, except estimated records are fair.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 24,900 cubic feet per second June 26, 1899, gage height 5.39 feet at site and datum then in use, from graph based on gage readings; minimum daily discharge 55 cubic feet per second May 28, 1934, August 15, 1940, but may have been less for periods of no record for Browns Creek channel.

EXTREMES FOR CURRENT YEAR.--Peak discharge 985 cubic feet per second October 2, combined flow for both channels; minimum daily discharge 92 cubic feet per second July 4, combined flow for both channels.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	862	850	796	637	621	623	683	461	155	138	437	687
2	942	861	795	628	639	622	686	471	151	119	399	729
3	957	865	754	641	640	627	673	478	146	105	374	716
4	934	861	713	650	659	610	658	472	133	92	333	684
5	878	871	695	662	686	600	652	474	131	111	304	566
6	815	841	694	677	680	600	683	492	129	100	277	467
7	853	818	705	668	653	614	666	489	129	126	264	416
8	739	811	724	682	669	614	662	456	130	134	247	427
9	719	813	732	675	686	609	668	426	132	130	233	480
10	709	853	738	655	699	628	640	454	141	125	225	492
11	693	845	748	628	718	617	606	456	150	108	214	515
12	624	827	759	639	725	602	567	471	152	99	213	537
13	623	810	755	667	725	586	560	444	148	97	213	542
14	648	820	755	670	732	584	556	423	156	107	209	521
15	648	820	757	651	712	574	563	379	166	124	201	503
16	757	801	743	623	713	560	568	325	169	259	196	502
17	690	791	733	604	698	582	590	313	161	259	193	521
18	688	770	718	613	659	625	663	310	156	234	189	498
19	699	801	692	618	658E	694	638	283	146	273	185	463
20	703	698	658	629	660E	761	611	271	142	300	188	433
21	712	702	635	633	680E	750	580	279	139	458	194	417
22	703	722	615	608	683	742	554	273	133	476	200	419
23	708	731	607	600	680	761	515	253	131	407	208	380
24	710	737	599	657	652	762	505	232	142	376	207	363
25	734	739	608	630	650	739	479	210	133	351	202	361
26	772	721	622	622	633	724	471	201	145	349	210	496
27	787	719	664	641	610	725	487	203	207	411	217	644
28	794	723	657	625	613	694	480	184	214	622	227	816
29	816	749	651	614	-----	657	469	190	170	688	218	802
30	836	765	644	598	-----	652	464	188	164	570	274	736
31	861	-----	645	589	-----	665	-----	171	-----	457	494	-----
TOTAL	23,614	23,735	21,611	19,734	18,833	20,203	17,597	10,732	4,501	8,205	7,745	16,133
MEAN	762	791	697	637	673	652	587	346	150	265	250	538
MAX	957	871	796	682	732	762	686	492	214	688	494	816
MIN	623	698	599	589	610	560	464	171	129	92	185	361
AC-FT	46,840	47,080	42,870	39,140	37,360	40,070	34,900	21,290	8,930	16,270	15,360	32,000

CAL YEAR 2002	TOTAL	208,853	MEAN	572	MAX	1,010	MIN	108	AC-FT	414,300
WTR YEAR 2003	TOTAL	192,643	MEAN	528	MAX	957	MIN	92	AC-FT	382,100

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

BROWNS CREEK CANAL from North Platte River, 00019000 - 2003

LOCATION.--NW1/4SE1/4 Sec. 28-20-50 W. near Bridgeport

GAGE.--Continuous stage recorder and 8 ft. Parshall flume with modified rating

PERIOD OF RECORD.--1916 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42						0	0	61	86	88	66
2	38						0	0	62	88	89	58
3	41						0	0	62	82	89	57
4	42						0	0	61	71	89	52
5	41						0	0	70	71	89	49
6	43						0	5.4	71	69	90	53
7	41						0	31	72	77	92	64
8	39						0	24	73	76	92	46
9	39						0	25	71	77	93	4.8
10	15						0	26	63	75	91	0
11	0						0	26	59	74	88	0
12	0						0	28	56	77	89	0
13	0					0	0	29	53	77	88	0
14	0					0	0	37	54	78	88	0
15	0					0	0	43	55	72	89	0
16	0					0	0	47	61	54	87	0
17	0					0	0	53	57	53	87	0
18	0					0	0	55	56	54	86	0
19	0					0	0	54	56	57	87	0
20	0					0	0	51	60	56	89	0
21	0					0	0	50	62	59	89	0
22	0					0	0	52	68	61	89	0
23						0	0	55	72	59	88	0
24						0	0	55	76	59	88	0
25						0	0	61	75	62	88	0
26						0	0	60	82	65	89	0
27						0	0	59	88	67	89	0
28						0	0	54	88	64	88	0
29					-----	0	0	63	84	77	81	0
30					-----	0	0	65	89	86	86	0
31		-----			-----	0	-----	62	-----	88	79	-----
TOTAL	381					0	0	1,170.4	2,017	2,171	2,734	449.8
MEAN	17.3					0	0	37.8	67.2	70.0	88.2	15.0
MAX	43					0	0	65	89	88	93	66
MIN	0					0	0	0	53	53	79	0
AC-FT	756					0	0	2,320	4,000	4,310	5,420	892
CAL YEAR 2002	MAX	113	MIN	0	AC-FT	20,880						
WTR YEAR 2003	MAX	93	MIN	0	AC-FT	17,700						

NORTH PLATTE RIVER BASIN

COURTHOUSE ROCK CANAL from Pumpkin Creek, 00030000 - 2003

LOCATION.--SE1/4SW1/4 Sec. 30-19-50 W. near Bridgeport

GAGE.--Continuous stage recorder and concrete box

PERIOD OF RECORD.--1917 - 1927, 1930 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	.90	0	0
2								0	0	1.2	0	0
3								0	0	.99	0	0
4								0	0	1.0	0	0
5								0	0	1.0	0	0
6								0	0	1.1	0	0
7								0	0	1.1	0	0
8								0	0	1.4	0	0
9								0	0	1.1	0	0
10								0	0	.92	0	0
11								0	0	.75	0	0
12								0	0	.72	0	0
13								0	0	.71	0	0
14								0	0	.57	0	0
15								0	0	.47	0	0
16								0	0	.49	0	0
17								0	0	.50	0	0
18								0	0	.27	0	0
19								0	0	0	0	0
20								0	0	0	0	0
21								0	0	0	0	0
22								0	0	0	0	0
23								0	0	0	0	0
24								0	0	0	0	0
25								0	0	0	0	0
26								0	0	0	0	0
27								0	0	0	0	0
28								0	0	0	0	0
29					-----			0	0	0	0	0
30					-----			0	0	0	0	0
31		-----			-----		-----	0	-----	0	0	-----
TOTAL								0	0	15.19	0	0
MEAN								0	0	.49	0	0
MAX								0	0	1.4	0	0
MIN								0	0	0	0	0
AC-FT								0	0	30	0	0
CAL YEAR 2002	MAX	1.9	MIN	0	AC-FT	122						
WTR YEAR 2003	MAX	1.4	MIN	0	AC-FT	30						

NORTH PLATTE RIVER BASIN

LAST CHANCE CANAL from Pumpkin Creek, 00080000 - 2003

LOCATION.--SE1/4NW1/4 Sec. 27-19-50 W. near Bridgeport

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1921 - 1922, 1931 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

No water diverted in 2003.												
CAL YEAR 2002	MAX	2.7	MIN	0	AC-FT	51						

NORTH PLATTE RIVER BASIN

TRINNIER CANAL from Greenwood Creek, 00144200 - 2003

LOCATION.--SE1/4NE1/4 Sec. 28-18-50 W. near Bridgeport

GAGE.--Continuous stage recorder and 3 ft. Cipolletti weir

PERIOD OF RECORD.--1998 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	2.4					0	4.8	3.6	2.0	3.4	3.3
2	3.7	2.3					3.2	4.6	2.0	2.1	3.3	3.2
3	3.8	2.3					5.7	4.4	1.2	2.3	3.2	3.3
4	3.7	2.3					5.8	4.4	1.1	2.2	3.2	3.4
5	3.6	2.2					6.0	4.4	.93	2.3	3.3	3.3
6	3.5	.59					6.1	4.5	.92	2.6	3.5	3.3
7	3.4						6.1	3.6	1.0	2.7	3.3	3.3
8	3.4						5.8	1.2	.83	2.7	3.5	3.3
9	3.3						5.6	1.2	.69	2.8	3.4	3.4
10	3.3						5.5	1.2	.68	2.9	3.3	3.4
11	3.2						5.5	.96	.70	2.9	3.3	3.6
12	3.4						5.6	.78	.66	2.9	3.4	3.5
13	3.4						5.5	2.4	.63	2.7	3.4	3.7
14	3.1						5.7	3.1	1.4	2.6	3.6	3.5
15	2.9					0	5.6	3.2	1.7	2.6	3.6	1.2
16	2.9					0	5.8	2.9	1.7	2.5	3.6	0
17	2.9					0	5.4	2.8	1.8	2.5	3.6	0
18	2.7					0	5.5	3.4	1.8	2.6	3.7	0
19	2.6					0	5.5	3.4	1.7	2.6	3.8	0
20	2.5					0	5.2	3.4	1.6	2.7	3.7	0
21	2.6					0	4.8	3.2	1.6	2.8	3.7	0
22	2.7					0	4.9	3.0	1.6	2.8	3.5	0
23	2.8					0	4.8	3.1	1.7	2.8	3.3	1.0
24	2.7					0	4.6	3.1	1.9	2.7	3.1	1.7
25	2.4					0	4.6	3.2	1.8	2.7	3.1	.92
26	2.4					0	4.4	3.3	1.7	2.7	3.0	.14
27	2.3					0	4.4	3.3	1.3	3.2	2.8	.13
28	2.3					0	4.6	3.3	1.2	3.7	2.9	.11
29	2.2				-----	0	4.6	3.4	1.3	3.6	3.0	.15
30	2.7				-----	0	4.9	3.4	1.7	3.9	3.3	.18
31	2.5	-----			-----	0	-----	3.5	-----	3.6	3.4	-----
TOTAL	92.3	12.09				0	151.7	96.44	42.44	85.7	104.2	53.03
MEAN	2.98	2.02				0	5.06	3.11	1.41	2.76	3.36	1.77
MAX	3.8	2.4				0	6.1	4.8	3.6	3.9	3.8	3.7
MIN	2.2	.59				0	0	.78	.63	2.0	2.8	0
AC-FT	183	24				0	301	191	84	170	207	105
CAL YEAR 2002	MAX	4.6	MIN	0	AC-FT	733						
WTR YEAR 2003	MAX	6.1	MIN	0	AC-FT	1,270						

NORTH PLATTE RIVER BASIN

NELSON CANAL from Greenwood Creek, 00105500 - 2003

LOCATION.--SE1/4SE1/4 Sec. 33-18-50 W. near Bridgeport

GAGE.--Continuous stage recorder and 4 ft. Cipolletti weir

PERIOD OF RECORD.--1998 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0							0	0	3.4	3.1	2.7
2	0						0	0	0	3.5	3.3	2.6
3	0						0	0	0	3.4	3.3	2.6
4	0						0	0	0	3.4	3.3	2.5
5	0						0	0	0	3.4	3.2	2.5
6	0						0	0	0	3.3	3.4	2.6
7	0						0	0	0	3.6	3.3	2.7
8	0						0	0	0	4.0	3.2	2.7
9	0						0	0	0	3.7	3.1	2.9
10	0						0	0	0	3.7	2.9	2.8
11							0	0	0	3.7	2.9	2.8
12							0	0	0	3.7	2.7	2.7
13							0	0	0	3.7	2.5	2.7
14							0	0	0	3.7	2.4	2.7
15							0	0	0	3.7	2.5	1.0
16							0	0	0	3.7	2.5	0
17							0	0	0	3.6	2.6	0
18							0	0	0	3.6	2.7	0
19							0	0	0	3.8	2.8	0
20							0	0	0	3.8	2.7	0
21							0	0	0	3.8	2.8	0
22							0	0	0	3.7	2.9	0
23							0	0	0	3.8	2.7	0
24							0	0	0	3.8	2.6	0
25							0	0	0	3.7	2.5	0
26							0	0	0	3.6	2.4	0
27							0	0	1.4	3.7	2.3	0
28							0	0	3.3	0	2.3	0
29					-----		0	0	3.4	0	2.3	0
30					-----		0	0	3.6	0	2.3	0
31		-----			-----		-----	0	-----	.25	2.6	-----
TOTAL	0						0	0	11.7	98.75	86.1	38.5
MEAN	0						0	0	.39	3.19	2.78	1.28
MAX	0						0	0	3.6	4.0	3.4	2.9
MIN	0						0	0	0	0	2.3	0
AC-FT	0						0	0	23	196	171	76
CAL YEAR 2002	MAX	3.8	MIN	0	AC-FT	429						
WTR YEAR 2003	MAX	4.0	MIN	0	AC-FT	466						

NORTH PLATTE RIVER BASIN

MEREDITH-AMMER CANAL from Pumpkin Creek, 00088000 - 2003

LOCATION.--NE1/4NE1/4 Sec. 23-19-50 W. near Bridgeport

GAGE.--Continuous stage recorder and 2.5 ft. Parshall flume

PERIOD OF RECORD.--1931 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

No water diverted in 2003.												
CAL YEAR 2002	MAX	3.6	MIN	0	AC-FT	38						
WTR YEAR 2003	MAX	0	MIN	0	AC-FT	0						

NORTH PLATTE RIVER BASIN

PUMPKIN CREEK near Bridgeport, 06685000 - 2003

LOCATION.--SE1/4SW1/4 Sec. 12-19-50 W., Morrill County, Lat. 41° 37' 38", Long. 103° 02' 10", on right bank 250 feet downstream from bridge on U.S. Highway 385 and State Highway 92, 0.5 mile upstream from mouth, and 4 miles southeast of Bridgeport.

DRAINAGE AREA.--Approximately 1,020 square miles.

GAGE.--Continuous stage recorder. Gage datum is 3,635.99 feet above sea level.

PERIOD OF RECORD.--Feb. 1931 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 7,880 cubic feet per second June 9, 1965, gage height 9.98 feet, present datum; no flow many years since 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharge 29 cubic feet per second September 20, gage height 2.63 feet; no flow many days all year.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	0	0	0	0E	0	0	0	0	0 E	0 E	0 E
2	4.2	0	0	0	0	0	0	0	0	0 E	0 E	0 E
3	4.8	0	0	0E	0	0	0	0	0	0 E	.75	0 E
4	4.4	0	0	0E	0E	0	0	0	0	0 E	.48	0 E
5	1.5	0	0	0	0E	0	0	0	0	0 E	0 E	0 E
6	.56	0	0	0E	0E	0	0	0	0	0 E	0 E	0 E
7	.53	0	0	0E	0	0E	3.4	0	0	0	0 E	0 E
8	.25	0	0E	0E	0	0E	12	0 E	0	0 E	0 E	0 E
9	.08	0	0E	0E	0	0E	8.0	0	0	0 E	0 E	0 E
10	.26	0	0E	0E	0E	0E	4.9	0 E	0	0	0 E	0 E
11	.03	0	0E	0E	0E	0	1.2	0	0	0	0 E	0 E
12	0	0	0E	0E	0	0	0	0	0	0	0 E	0 E
13	0	0	0E	0E	0E	0	.29	0	0	0	0 E	0 E
14	.19	0	0E	0	0E	0	.58	0	.06	0	0 E	0 E
15	0	0	0E	0E	0E	0	1.2	0	.88	0	0 E	0 E
16	0	0	0E	0E	0E	0	.01	0	.60	0	0 E	0 E
17	0	0	0E	0E	0E	0	.18	.54	.07	0	0 E	.67
18	0	0	0	0E	0E	0	1.2	.07	.62	0	0 E	15
19	0	0	0	0E	0E	0	1.7	0	.99	0	0 E	21
20	0	0	0	0E	0	0	1.1	0	.25	.07	0 E	28
21	0	0	0	0E	0	0	.40	0	0	.83	0 E	24
22	0	0	0E	0E	0	0	.21	0	0	2.5	0 E	19
23	0	0	0E	0E	0E	0	4.8	.01	0	3.3	.49	19
24	0	0	0E	0E	0	0	15	0	.08	3.2	1.3	14
25	0	0	0E	0E	0	0	6.2	0	.06	.85	.97	15
26	0	0	0E	0E	0	0	0 E	0	.87	0 E	2.0	15
27	0	0	0	0E	0	0E	0	0	2.6	0 E	5.8	18
28	0	0	0	0	0	0E	0	0	.06	0 E	0 E	16
29	0	0	0	0E	-----	0	0 E	0	.06	0 E	0 E	21
30	0	0	0	0E	-----	0	0 E	0	.09	0 E	0 E	27
31	0	-----	0	0E	-----	0	-----	0	-----	0 E	.20	-----
TOTAL	20.90	0	0	0	0	0	62.37	0.62	7.29	10.75	11.99	252.67
MEAN	.67	0	0	0	0	0	2.08	.020	.24	.35	.39	8.42
MAX	4.8	0	0	0	0	0	15	.54	2.6	3.3	5.8	28
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	41	0	0	0	0	0	124	1.2	14	21	24	501
CAL YEAR 2002	TOTAL	724.29	MEAN	1.98	MAX	23	MIN	0	AC-FT	1,440		
WTR YEAR 2003	TOTAL	366.59	MEAN	1.00	MAX	28	MIN	0	AC-FT	727		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

BEERLINE CANAL from North Platte River, 00007000 - 2003

LOCATION.--SE1/4NE1/4 Sec. 24-19-49 W. near Broadwater

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1919 - 1922, 1924 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	0						0	0	10	3.1	2.7
2	1.2	0						0	0	9.1	0	1.7
3	1.1	0						0	0	0	0	0
4	1.1	0						0	0	0	5.8	2.5
5	1.1	0						0	0	0	18	13
6	1.0	0						0	0	0	18	12
7	1.0	0						0	.32	0	17	11
8	1.1	0						0	.92	6.7	11	11
9	1.0	0						0	8.5	13	0	12
10	.05	0						0	16	13	0	12
11	0	0						0	18	13	0	12
12	0	0						0	18	4.3	8.0	12
13	0	0						0	18	0	13	12
14	0	0						0	18	0	13	12
15	0							0	18	0	13	11
16	0							0	15	0	13	11
17	0							0	13	9.9	13	11
18	0							0	12	11	5.0	12
19	0							0	12	9.9	0	12
20	0							0	11	10	0	12
21	0							0	11	10	0	12
22	0							0	11	4.1	0	12
23	0							0	11	0	4.3	12
24	0							0	11	0	7.1	12
25	0							0	11	0	7.2	13
26	0							0	11	0	7.2	13
27	0							0	11	4.9	7.8	14
28	0							0	12	8.5	3.2	14
29	0				-----			0	11	8.6	0	15
30	0				-----		0	0	10	8.3	0	15
31	0	-----			-----		-----	0	-----	8.0	1.5	-----
TOTAL	9.95	0						0	0	288.74	162.3	326.9
MEAN	.32	0						0	0	9.62	5.24	10.9
MAX	1.3	0						0	0	18	13	15
MIN	0	0						0	0	0	0	0
AC-FT	20	0						0	0	573	322	648
CAL YEAR 2002	MAX	21	MIN	0	AC-FT	2,020						
WTR YEAR 2003	MAX	18	MIN	0	AC-FT	1,940						

NORTH PLATTE RIVER BASIN

LISCO CANAL from North Platte River, 00082000 - 2003

LOCATION.--NW1/4NW1/4 Sec. 24-18-47 W. near Lisco

GAGE.--Continuous stage recorder and weir

PERIOD OF RECORD.--1918 - 1927, 1929 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0						16	0	31	28	27
2	0	0						0	0	27	33	26
3	0	0						0	0	14	26	23
4	0	0						0	0	0	27	27
5	0							0	0	0	20	26
6	0							0	0	0	21	21
7	0							0	0	0	34	20
8	0						0	0	0	0	23	23
9	0						0	0	0	0	26	34
10	0						0	0	0	12	28	29
11	0						0	0	0	18	30	19
12	0						0	0	.11	16	28	22
13	0						0	0	19	15	25	24
14	0						42	0	29	11	25	26
15	0						45	0	33	13	24	25
16	0						45	0	30	14	20	22
17	0						42	0	31	31	19	21
18	0						47	0	33	28	21	24
19	0						44	0	35	27	23	21
20	0						36	0	40	33	23	22
21	0						35	0	36	30	23	22
22	0						34	0	41	32	23	22
23	0						38	0	38	26	23	6.2
24	0						40	0	32	20	25	0
25	0						42	0	28	22	6.8	0
26	0						41	0	29	21	0	0
27	0						43	0	28	34	0	0
28	0						44	0	39	29	0	0
29	0				-----		43	0	36	22	30	0
30	0				-----		45	0	29	31	26	0
31	0	-----			-----		-----	0	-----	27	26	-----
TOTAL	0	0					706	16	586.11	584	686.8	532.2
MEAN	0	0					30.7	.52	19.5	18.8	22.2	17.7
MAX	0	0					47	16	41	34	34	34
MIN	0	0					0	0	0	0	0	0
AC-FT	0	0					1,400	32	1,160	1,160	1,360	1,060
CAL YEAR 2002	MAX	75	MIN	0	AC-FT	5,240						
WTR YEAR 2003	MAX	47	MIN	0	AC-FT	6,170						

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER at Lisco, 06686000 - 2003

LOCATION.--SW1/4NE1/4 Sec. 33-18-46 W., Garden County, Lat. 41° 29' 24", Long. 102° 37' 29", on left bank 40 feet downstream of highway bridge, and 0.5 mile south of Lisco.

DRAINAGE AREA.--Approximately 26,700 square miles.

GAGE.--Continuous stage recorder. Gage datum 3,475.5 feet above sea level.

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 20,100 cubic feet per second June 27, 29 1917 from rating extended above 15.0 ft. Minimum daily discharge 8 cubic feet per second August 4, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,040 cubic feet per second October 3, gage height 1.79 feet; maximum gage height 2.67 feet February 24 due to backwater from ice conditions; minimum daily discharge 33 cubic feet per second July 16.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	640	885	827	754	670	580E	663	670	191	111	478	395
2	845	884	832	716	710	700E	679	610	171	91	415	601
3	984	883	841	723	721	860E	691	581	175	71	381	682
4	972	865	817	715	701	740E	668	548	155	71	369	672
5	900	864	832	716	673	720E	661	500	156	63	284	632
6	809	844	822	730	612	700E	746	493	150	75	213	552
7	755	851	809	707	591	706	708	486	159	77	164	489
8	733	856	792	687	658	681	701	521	157	98	168	444
9	728	855	802	672	736	641	739	516	161	82	177	511
10	726	846	813	583	647	650	719	598	158	58	190	583
11	745	838	829	541	624	665	692	614	147	45	181	626
12	722	845	854	541	614	657	660	573	146	39	163	643
13	683	844	872	663	634	630	643	528	164	36	135	622
14	668	848	862	648	646	605	595	481	127	37	126	605
15	647	850	870	622	627	601	594	436	122	34	121	575
16	656	848	872	560	631	606	596	387	119	33	114	538
17	673	835	870	573	631	621	584	353	168	90	111	503
18	705	829	851	621	612	749	652	383	189	129	108	541
19	712	831	792	700	609	824	689	400	148	133	111	545
20	725	839	720	608	605	813	655	361	148	129	113	539
21	730	850	780E	599	578	807	639	370	148	157	115	514
22	728	843	700E	610	573	763	620	345	123	275	119	493
23	750	823	660E	580E	560E	732	657	314	115	363	122	490
24	763	806	680E	600E	500E	720	655	301	114	340	132	454
25	764	792	680E	660E	520E	702	653	279	108	311	155	446
26	797	748	680E	700E	480E	688	613	259	98	290	145	452
27	819	736	740E	720E	520E	742	591	245	88	375	143	562
28	818	808	860E	739	560E	709	581	239	117	422	182	680
29	818	808	784	633	-----	658	604	216	150	673	149	817
30	825	800	748	616	-----	659	714	205	141	769	133	866
31	861	-----	743	636	-----	660	-----	194	-----	615	211	-----
TOTAL	23,701	25,054	24,634	20,173	17,243	21,589	19,662	13,006	4,313	6,092	5,728	17,072
MEAN	765	835	795	651	616	696	655	420	144	197	185	569
MAX	984	885	872	754	736	860	746	670	191	769	478	866
MIN	640	736	660	541	480	580	581	194	88	33	108	395
AC-FT	47,010	49,690	48,860	40,010	34,200	42,820	39,000	25,800	8,550	12,080	11,360	33,860
CAL YEAR 2002 TOTAL		205,681	MEAN	564	MAX	984	MIN	48	AC-FT	408,000		
WTR YEAR 2003 TOTAL		198,267	MEAN	543	MAX	984	MIN	33	AC-FT	393,300		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

MIDLAND-OVERLAND CANAL from North Platte River, 00098000 - 2003

LOCATION.--NE1/4SE1/4 Sec. 2-16-44 W. near Oshkosh

GAGE.--Continuous stage recorder and 3 ft. Parshall flume

PERIOD OF RECORD.--1924 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	0					0	0	0	0	0	0
2	10	0					0	0	0	0	0	0
3	8.2	0					0	0	0	0	0	0
4	8.9	0					0	0	0	0	0	0
5	8.6						0	0	0	0	0	0
6	8.1						0	0	0	0	0	0
7	7.3						0	0	0	0	0	0
8	6.8						0	0	0	0	0	0
9	6.7						0	0	0	0	0	0
10	6.1						0	0	0	0	0	0
11	5.7						0	0	0	0	0	0
12	5.3						0	0	0	0	0	0
13	4.7						0	0	0	0	0	0
14	4.7						0	0	0	0	0	0
15	5.0						0	0	0	0	0	0
16	5.2						0	0	0	0	0	0
17	4.8						0	0	0	0	0	0
18	4.7					0	0	0	0	0	0	0
19	4.5					0	0	0	0	0	0	0
20	4.7					0	0	0	0	0	0	0
21	4.8					0	0	0	0	0	0	0
22	4.6					0	0	0	0	0	0	0
23	4.0					0	0	0	0	0	0	0
24	4.1					0	0	0	0	0	0	0
25	5.1					0	0	0	0	0	0	0
26	2.7					0	0	0	0	0	0	0
27	0					0	0	0	0	0	0	0
28	0					0	0	0	0	0	0	6.3
29	0				-----	0	0	0	0	0	0	10
30	0				-----	0	0	0	0	0	0	11
31	0	-----			-----	0	-----	0	-----	0	0	-----
TOTAL	155.3	0				0	0	0	0	0	0	27.3
MEAN	5.01	0				0	0	0	0	0	0	.91
MAX	10	0				0	0	0	0	0	0	11
MIN	0	0				0	0	0	0	0	0	0
AC-FT	308	0				0	0	0	0	0	0	54
MAX	14	MIN	0	AC-FT	1,220							
MAX	11	MIN	0	AC-FT	362							

NORTH PLATTE RIVER BASIN

PAISLEY CANAL from Blue Creek, 00120000 - 2003

LOCATION.--SE1/4NW1/4 Sec. 6-16-42 W. near Lewellen

GAGE.--Continuous stage recorder and 4 ft. Parshall flume with modified rating

PERIOD OF RECORD.--1917 - 1919, 1921, 1923, 1925 - 1927, 1931 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	0						0	0	15	0	0
2	16	0						0	0	7.1	0	0
3	16	0						0	5.2	0	0	6.3E
4	16	0						0	8.4	0	2.4	13 E
5	16							0	8.7	0	9.6	12 E
6	16							0	8.8	0	9.4	13
7	15							0	9.1	0	6.2	14
8	15						0	0	9.4	0	3.4	14
9	15						0	0	12	0	0	15
10	15						0	0	13	0	0	15
11	16						0	0	15	0	0	15
12	17						0	0	15	0	1.2	14
13	17						0	0	17	0	2.4	14
14	14						0	0	16	0	.58	15
15	14						0	0	15	0	0	14
16	14						0	0	15	0	0	14
17	14						0	0	16	0	0	15
18	14						0	0	17	0	0	15
19	14						0	0	16	0	0	15
20	14						0	0	14	0	0	15
21	14						0	0	0	.75	0	16
22	14						0	0	0	1.3	0	15
23	14						0	0	0	.45	0	15
24	14						0	0	0	0	0	15
25	14						0	0	0	0	0	15
26	14						0	0	7.4	0	0	15
27	14						0	0	11	0	0	15
28	14						0	0	12	0	0	15
29	13				-----		0	0	15	0	0	15
30	4.8				-----		0	0	15	0	0	15
31	0	-----			-----		-----	0	-----	0	0	-----
TOTAL	431.8	0					0	0	291.0	24.60	35.18	399.3
MEAN	13.9	0					0	0	9.70	.79	1.13	13.3
MAX	17	0					0	0	17	15	9.6	16
MIN	0	0					0	0	0	0	0	0
AC-FT	856	0					0	0	577	49	70	792
CAL YEAR 2002	MAX	17	MIN	0	AC-FT	2,690						
WTR YEAR 2003	MAX	17	MIN	0	AC-FT	2,340						

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

BLUE CREEK & HOOPER CANAL from Blue Creek, 00017200 - 2003

LOCATION.--SW1/4NE1/4 Sec. 6-16-42 W. near Lewellen

GAGE.--Continuous stage recorder and 8 ft. Parshall Flume with modified rating

PERIOD OF RECORD.--1917 - 1919, 1921 - present

REMARKS.--Total diversion from Blue Creek for both Blue Creek Canal and Hooper Canal. Diversion at this site before 1996 was for Blue Creek Canal only. Deliveries to Hooper Canal shown separately in this report. Starting in 2003, the Blue Creek Canal also serves lands formerly served by the Graf Canal. There is no longer a Graf Canal diversion.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27							0	26	49	56	38
2	29							0	27	26	60	45
3	29							0	27	6.7	59	45
4	30							0	24	0	57	32
5	29							0	21	0	57	28
6	28							0	21	0	56	40
7	28							0	21	0	55	46
8	28						0	0	21	0	55	47
9	28						0	0	19	0	55	38
10	28						0	0	23	0	56	30
11	27						0	0	30	0	56	30
12	7.3						0	0	32	0	56	29
13	0						0	0	37	0	56	28
14	0						0	0	36	0	53	28
15	0						0	0	36	0	53	39
16	4.0						0	0	34	0	55	47
17	9.2						3.4	0	34	0	57	43
18	11						4.4	0	35	0	57	28
19	11						6.8	0	33	0	57	27
20	11						5.2	0	26	0	57	29
21	10						3.0	15	0	0	31	32
22	6.8						3.4	15	0	0	0	30
23	1.5						0	28	0	0	0	29
24	0						0	29	0	0	0	30
25	0						0	36	16	0	0	36
26							2.7	39	17	0	0	36
27							3.4	39	29	1.4	0	36
28							3.1	39	44	1.6	0	35
29					-----		3.5	39	44	1.7	20	32
30					-----		2.3	39	49	22	50	27
31		-----			-----		-----	36	-----	51	42	-----
TOTAL	382.8						41.2	354	762	159.4	1,266	1,040
MEAN	15.3						1.79	11.4	25.4	5.14	40.8	34.7
MAX	30						6.8	39	49	51	60	47
MIN	0						0	0	0	0	0	27
AC-FT	759						82	702	1,510	316	2,510	2,060
CAL YEAR 2002	MAX	66	MIN	0	AC-FT	7,990						
WTR YEAR 2003	MAX	60	MIN	0	AC-FT	7,940						

NORTH PLATTE RIVER BASIN

HOOPER CANAL from Blue Creek via Blue Creek Canal, 00067000 - 2003

LOCATION.--SE1/4NE1/4 Sec. 7-16-42 W. near Lewellen

GAGE.--Continuous stage recorder and 4 ft. rectangular weir

PERIOD OF RECORD.--1917 - 1919, 1921 - 1923, 1925 - 1927, 1931 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6							0	2.3	4.7	9.0	5.8
2	2.0							0	2.5	2.8	9.0	5.3
3	1.7							0	2.5	3.5	9.0	2.5
4	1.6							0	2.1	0	9.5	.73
5	1.7							0	3.8	0	7.4	2.4
6	1.7							0	4.2	0	6.4	3.7
7	2.1							0	3.9	0	7.2	4.0
8	2.2						0	0	3.2	0	7.4	5.8
9	2.1						0	0	2.8	0	6.3	6.1
10	2.1						0	0	2.7	0	6.4	4.3
11	2.3						0	0	3.0	0	5.7	3.6
12	.95						0	0	2.7	0	6.0	3.7
13	0						0	0	3.5	0	7.1	3.6
14	0						0	0	4.0	0	6.8	3.6
15	0						0	0	4.8	0	7.1	1.4
16	0						0	0	4.5	0	6.7	0
17	0						2.0	0	4.8	0	8.7	0
18	0						3.7	0	3.3	0	10	0
19	0						6.3	0	2.4	0	10	0
20	0						5.3	0	2.1	0	8.2	0
21	0						2.5	0	.04	0	4.4	1.1
22	0						2.6	1.7	0	0	0	3.0
23	0						0	5.7	0	0	0	2.6
24	0						0	5.5	0	0	0	2.6
25	0						0	5.6	4.9	0	0	2.5
26							1.1	5.5	7.5	0	0	3.5
27							2.0	2.9	6.6	0	0	3.2
28							1.6	2.6	5.0	0	0	3.1
29					-----		2.0	2.5	6.1	0	6.4	2.1
30					-----		3.7	2.5	5.3	2.5	9.4	0
31		-----			-----		-----	2.5	-----	8.1	7.4	-----
TOTAL	23.05						32.8	37.0	100.54	21.6	181.5	80.23
MEAN	.92						1.43	1.19	3.35	.70	5.85	2.67
MAX	2.6						6.3	5.7	7.5	8.1	10	6.1
MIN	0						0	0	0	0	0	0
AC-FT	46						65	73	199	43	360	159
CAL YEAR 2002 MAX		15	MIN	0	AC-FT	1,490						
WTR YEAR 2003 MAX		10	MIN	0	AC-FT	946						

NORTH PLATTE RIVER BASIN

UNION CANAL from Blue Creek, 00146000 - 2003

LOCATION.--NE1/4SW1/4 Sec. 18-16-42 W. near Lewellen

GAGE.--Continuous stage recorder and 3 ft. Parshall flume

PERIOD OF RECORD.--1917 - 1919, 1921 - 1927, 1930 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	0						0	0	9.9	15	15
2	4.1	0						0	0	14	14	11
3	4.1	0						0	0	15	14	12
4	4.1	0						0	0	15	14	12
5	4.1							0	0	15	7.0	13
6	4.1							0	0	16	7.7	10
7	4.7							0	0	14	9.4	12
8	1.9						0	0	0	14	12	13
9	5.0						0	0	0	12	11	13
10	7.4						0	0	0	12	14	17
11	2.4						0	0	0	12	14	9.4
12	5.4						0	0	5.6	12	15	5.6
13	9.3						0	0	7.9	12	14	3.0
14	8.9						0	0	11	11	13	2.7
15	8.4						0	0	13	8.4	13	5.9
16	8.3						0	0	13	0	12	9.5
17	8.0						0	0	15	0	11	14
18	7.3						0	0	17	0	13	14
19	9.0						0	0	16	0	13	2.9
20	9.0						0	0	13	0	13	2.9
21	9.0						0	0	0	0	13	2.8
22	9.0						0	0	0	0	17	2.7
23	9.1						0	0	0	0	13	4.7
24	9.1						0	0	0	0	13	8.3
25	9.1						0	0	0	0	13	3.8
26	9.1						0	0	0	0	12	7.0
27	9.2						0	0	0	0	13	4.4
28	9.1						0	0	3.3	7.7	13	3.1
29	9.4				-----		0	0	5.3	14	12	1.3
30	3.6				-----		0	0	8.3	14	10	3.5
31	0	-----			-----		-----	0	-----	14	15	-----
TOTAL	208.1	0					0	0	128.4	242.0	393.1	239.5
MEAN	6.71	0					0	0	4.28	7.81	12.7	7.98
MAX	9.4	0					0	0	17	16	17	17
MIN	0	0					0	0	0	0	7.0	1.3
AC-FT	413	0					0	0	255	480	780	475
CAL YEAR 2002	MAX	17	MIN	0	AC-FT	2,750						
WTR YEAR 2003	MAX	17	MIN	0	AC-FT	2,400						

NORTH PLATTE RIVER BASIN

BLUE CREEK near Lewellen, 06687000 - 2003

LOCATION.--NE1/4 Sec. 30-16-42 W., Garden County, Lat. 41° 20' 08", Long. 102° 10' 21", on left bank five feet downstream from county highway bridge, 0.5 mile downstream from bridge on U.S. Highway 26, 0.8 mile upstream from mouth, and 1.5 miles west of Lewellen.

DRAINAGE AREA.--1,120 square miles, of which approximately 80 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum 3,310.04 feet above sea level.

PERIOD OF RECORD.--Oct. 1930 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Records are good, except records below 5 cubic feet per second are fair and estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 720 cubic feet per second May 20, 1938, gage height 6.46 feet; maximum gage height 7.28 feet December 17, 1985, backwater from ice; no flow for short periods many years since 1940.

EXTREMES FOR CURRENT YEAR.--Peak discharge 170 cubic feet per second June 21, gage height 4.72 feet; maximum gage height 6.25 feet January 17 due to backwater from ice; zero flow August 6-8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	87	87	89	89	94	83	114	45	3.1	12	23
2	37	86	87	88	87	93	82	103	51	19	3.2	17
3	37	86	88	87	84	95	81	98	49	53	5.2	13
4	37	85	86	89	82	97	81	103	48	61	6.7	14
5	37	84	86	87	101	93	80	100	51	60	.88	17
6	37	85	86	88	94	95	85	92	52	57	0	7.6
7	37	85	87	88	80E	100	88	100	53	56	0	.86
8	39	86	86	88	86	97	89	111	54	64	0	1.5
9	38	86	86	87	89	91	93	123	52	64	.81	7.9
10	38	85	85	84E	86	89	89	113	46	58	3.3	20
11	38	83	86	84E	86	93	84	108	34	56	5.0	22
12	52	83	87	84E	87	95	82	98	28	55	4.8	25
13	62	84	87	85	88	93	80	93	25	55	5.6	26
14	68	84	87	87	89	92	84	93	19	55	4.6	27
15	68	86	89	85	90	91	94	86	16	55	4.2	20
16	65	85	90	84E	88	90	108	85	14	65	3.1	7.0
17	61	85	90	86E	90	89	91	84	13	65	1.4	4.7
18	54	85	90	88E	91	103	84	85	15	66	1.6	24
19	51	86	88	88E	90	107	88	95	17	67	2.2	29
20	52	85	84E	89	90	99	85	104	28	67	2.6	29
21	52	87	83	88	89	92	81	77	120	70	14	27
22	55	87	82E	86E	90	90	80	71	97	77	56	26
23	61	87	84E	86E	88E	88	84	57	88	76	58	24
24	63	87	86E	88E	78E	86	88	51	86	70	59	23
25	64	86	86E	88E	84E	86	89	44	72	69	61	20
26	62	84	88E	87	92E	85	86	37	61	70	61	19
27	63	84E	88E	85	95	92	85	36	43	78	59	20
28	64	86	88	88	95	93	84	35	22	75	66	22
29	70	89	90	88	-----	87	87	33	15	65	52	25
30	81	88	89	91	-----	85	114	32	6.8	56	15	34
31	87	-----	90	93	-----	84	-----	31	-----	15	14	-----
TOTAL	1,667	2,566	2,696	2,703	2,478	2,864	2,609	2,492	1,320.8	1,822.1	582.19	575.56
MEAN	53.8	85.5	87.0	87.2	88.5	92.4	87.0	80.4	44.0	58.8	18.8	19.2
MAX	87	89	90	93	101	107	114	123	120	78	66	34
MIN	37	83	82	84	78	84	80	31	6.8	3.1	0	.86
AC-FT	3,310	5,090	5,350	5,360	4,920	5,680	5,170	4,940	2,620	3,610	1,150	1,140
CAL YEAR 2002	TOTAL	23,515.00	MEAN	64.4	MAX	104	MIN	0	AC-FT	46,640		
WTR YEAR 2003	TOTAL	24,375.65	MEAN	66.8	MAX	123	MIN	0	AC-FT	48,350		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER at Lewellen, 06687500 - 2003

LOCATION.--SE1/4NW1/4 Sec. 34-16-42 W., Garden County, Lat. 41° 19' 01", Long. 102° 07' 32", on left bank 19 feet downstream from bridge on State Highway 26, one mile southeast of Lewellen and approximately 0.5 mile upstream from highwater line of Lake McConaughy.

DRAINAGE AREA.--28,600 square miles, approximately 25,400 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum 3285.88 feet above sea level.

PERIOD OF RECORD.--1931 irrigation season, 1940 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 13,500 cubic feet per second June 4, 1971, at different datum; minimum daily discharge 38 cubic feet per second June 24, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,080 cubic feet per second March 19, gage height 5.69 feet; maximum gage height 8.04 feet December 25 due to backwater from ice; minimum daily discharge 70 cubic feet per second August 17 & 18.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	485	887	858	840E	900E	780E	819	965	231	124	476	172
2	606	906	859	800E	840E	800E	800	886	268	107	371	282
3	787	931	853	860E	818	840E	761	906	246	133	323	408
4	943	945	865	860E	778	800E	728	958	211	129	290	535
5	919	962	878	880E	788	732	732	854	224	120	271	591
6	869	947	881	840E	773	746	819	764	228	105	242	586
7	811	950	871	904	658	750	837	741	226	116	182	514
8	757	950	843	772	780E	738	865	818	227	194	154	448
9	742	928	812	806	700E	713	942	902	208	162	137	405
10	733	905	785	797	600E	718	917	898	191	148	144	432
11	724	896	770	726	800E	748	883	919	181	121	146	490
12	739	902	781	720	880E	751	838	832	183	108	124	542
13	726	935	787	756	822	745	792	749	240	104	113	548
14	710	955	818	750E	831	728	785	698	217	95	97	555
15	729	960	825	700E	793	714	775	656	163	90	83	542
16	746	965	818	660E	796	720	867	634	152	98	75	511
17	743	963	802	700E	818	736	823	594	148	98	70	488
18	728	953	787	720E	815	818	820	548	216	101	70	530
19	732	932	773	740E	812	1,020	885	622	235	149	73	538
20	769	941	746	740E	819	991	881	585	226	171	77	517
21	771	959	680	780E	820	954	820	577	562	160	76	476
22	759	986	787	800E	818	896	765	491	338	171	121	477
23	779	991	728	820E	818	863	780	456	253	213	113	466
24	784	985	677	800E	592	817	850	416	234	290	108	452
25	791	984	400E	820E	600E	826	828	369	204	321	124	430
26	782	935	600E	840E	700E	818	817	339	191	328	133	413
27	871	854	700E	820E	740E	902	766	310	163	353	138	420
28	907	885	700E	820E	780E	896	727	286	128	397	169	455
29	1,020	917	760E	840E	-----	826	738	262	129	387	169	591
30	928	874	800E	860E	-----	818	969	231	153	483	120	788
31	871	-----	860E	860E	-----	825	-----	210	-----	543	113	-----
TOTAL	24,261	28,083	24,104	24,631	21,689	25,029	24,629	19,476	6,576	6,119	4,902	14,602
MEAN	783	936	778	795	775	807	821	628	219	197	158	487
MAX	1,020	991	881	904	900	1,020	969	965	562	543	476	788
MIN	485	854	400	660	592	713	727	210	128	90	70	172
AC-FT	48,120	55,700	47,810	48,860	43,020	49,650	48,850	38,630	13,040	12,140	9,720	28,960
CAL YEAR 2002 TOTAL		227,209	MEAN	622	MAX	1,500	MIN	38	AC-FT	450,700		
WTR YEAR 2003 TOTAL		224,101	MEAN	614	MAX	1,020	MIN	70	AC-FT	444,500		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

KINGSLEY RESERVOIR from North Platte River, 06690000 - 2003

LOCATION.--NW1/4SW1/4 Sec. 3-14-38 W. near Ogallala

GAGE.--Electric tape gage read once daily

PERIOD OF RECORD.--1941 - 1988, 1990

REMARKS.--Values furnished by Central Nebraska Public Power and Irrigation District

STORAGE LEVEL	ELEVATION (Feet)	CONTENT (Acre-feet)
Top of flood pool	3277.5	2,179,800
Top of conservation pool	3270.0	1,948,000
Dead storage	3130.0	Negligible

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	578,800	624,500	666,300	698,700	733,500	761,500	801,500	822,800	815,000	782,300	604,000	451,100
2	578,800	626,200	666,300	700,500	735,400	761,500	803,400	822,800	813,000	776,600	598,900	448,200
3	580,400	627,900	668,100	702,300	735,400	763,400	801,500	824,700	811,100	770,900	592,200	446,700
4	582,100	629,700	668,100	702,300	737,200	765,300	801,500	824,700	809,200	767,200	588,800	445,300
5	583,800	631,400	669,900	704,100	739,000	767,200	803,400	824,700	809,200	761,500	583,800	443,800
6	585,500	631,400	671,700	705,900	739,000	767,200	805,300	824,700	809,200	755,900	578,800	442,400
7	587,100	634,800	673,500	707,800	739,000	769,000	805,300	826,600	809,200	754,000	570,500	440,900
8	588,800	636,600	673,500	709,600	739,000	769,000	805,300	828,600	807,200	748,400	565,500	439,500
9	590,500	636,600	675,300	711,400	739,000	770,900	807,200	828,600	807,200	742,800	559,000	439,500
10	593,900	636,600	677,000	711,400	739,000	772,800	807,200	830,600	805,300	737,200	552,400	438,000
11	593,900	638,300	677,000	711,400	740,900	774,700	809,200	830,600	805,300	731,600	545,900	438,000
12	597,200	640,100	678,800	711,400	742,800	774,700	809,200	830,600	803,400	724,200	539,400	438,000
13	598,900	641,800	680,600	711,400	744,600	774,700	809,200	830,600	803,400	718,700	532,900	436,600
14	598,900	641,800	682,400	711,400	748,400	778,500	811,100	832,500	801,500	713,200	528,100	436,600
15	600,600	645,300	684,200	715,100	748,400	778,500	811,100	830,600	799,500	705,900	521,700	435,100
16	602,300	645,300	684,200	715,100	748,400	778,500	813,000	832,500	799,500	700,500	516,900	433,700
17	604,000	647,000	686,000	715,100	750,200	780,400	811,100	834,400	797,600	691,400	512,200	435,100
18	604,000	648,800	686,000	715,100	752,100	782,300	815,000	830,600	797,600	686,000	507,400	433,700
19	607,400	650,500	686,000	715,100	754,000	784,200	815,000	832,500	795,700	678,800	502,700	433,700
20	607,400	650,500	687,800	716,900	755,900	786,100	815,000	830,600	793,800	671,700	496,400	433,700
21	609,100	652,300	689,600	716,900	755,900	788,000	815,000	828,600	793,800	666,300	491,800	435,100
22	610,800	654,000	691,400	718,700	755,900	788,000	815,000	826,600	793,800	661,100	491,800	436,600
23	610,800	655,800	691,400	720,600	757,700	790,000	818,800	826,600	791,900	654,000	482,600	436,600
24	612,500	657,500	691,400	720,600	757,700	791,900	816,900	824,700	791,900	648,800	478,000	438,000
25	614,200	657,500	691,400	720,600	755,900	793,800	818,800	822,800	791,900	643,500	473,400	438,000
26	614,200	657,500	689,600	722,400	757,700	793,800	818,800	822,800	790,000	636,600	470,400	439,500
27	617,600	659,300	691,400	722,400	757,700	795,700	818,800	822,800	788,000	631,400	465,900	439,500
28	617,600	661,100	691,400	722,400	759,600	795,700	818,800	820,800	788,000	626,200	464,400	440,900
29	621,100	662,800	693,200	728,000	-----	797,600	820,800	820,800	786,100	621,100	458,500	440,900
30	621,100	664,600	693,200	729,800	-----	799,500	820,800	818,800	784,200	615,900	455,500	443,800
31	622,800	-----	696,900	731,600	-----	799,500	-----	815,000	-----	610,800	452,600	-----
MAX	622,800	664,600	696,900	731,600	759,600	799,500	820,800	834,400	815,000	782,300	604,000	451,100
MIN	578,800	624,500	666,300	698,700	733,500	761,500	801,500	815,000	784,200	610,800	452,600	433,700
CHANGE	50,700	41,800	32,300	34,700	28,000	39,900	21,300	-5,800	-30,800	-173,400	-158,200	-8,800
CAL YEAR 2002			MEAN	889,058		MAX	1,160,000		MIN	572,000		
WTR YEAR 2003			MEAN	688,635		MAX	834,400		MIN	433,700		

NORTH PLATTE RIVER BASIN

SUTHERLAND CANAL from North Platte River and Kingsley Reservoir, 00138000 - 2003

LOCATION.--NW1/4NW1/4 Sec. 7-14-37 W. near Keystone

GAGE.--Continuous stage recorder and concrete control section

PERIOD OF RECORD.--1936 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	329	314	320	341	322	451	503	988	780	1,700	1,110
2	0	332	314	321	347	323	489	508	988	1,260	1,700	1,000
3	0	333	314	317	350	318	496	512	992	1,680	1,680	991
4	0	340	318	315	351	325	502	510	925	1,720	1,670	937
5	0	341	321	316	350	322	504	513	703	1,730	1,690	883
6	0	343	318	319	352	315	503	514	549	1,740	1,690	881
7	0	344	320	316	350	301	503	515	551	1,740	1,690	884
8	0	342	320	318	345	286	499	517	551	1,760	1,690	882
9	0	343	322	321	345	309	493	516	547	1,750	1,710	831
10	0	346	321	326	341	321	489	518	566	1,750	1,710	739
11	0	350	320	327	340	306	486	513	643	1,750	1,730	712
12	0	340	320	324	338	282	488	511	717	1,760	1,730	711
13	0	321	324	323	337	283	485	509	723	1,780	1,740	715
14	0	320	322	323	335	283	485	510	722	1,780	1,710	717
15	0	321	322	354	333	285	487	511	723	1,790	1,690	716
16	0	322	322	448	330E	288	491	509	722	1,760	1,680	708
17	0	320	326	418	330E	290	492	509	718	1,760	1,680	633
18	0	319	326	329	328E	293	493	504	715	1,760	1,670	522
19	0	320	325	326	328	297	491	510	777	1,760	1,670	417
20	0	318	328	326	327	296	488	604	815	1,750	1,660	281
21	0	317	329	419	327	295	483	894	807	1,740	1,650	154
22	160	320	330	480	327	293	487	975	799	1,750	1,650	129
23	242	317	332	478	334	291	495	977	743	1,740	1,630	127
24	307	320	324	458	386	292	490	973	669	1,750	1,620	60E
25	304	319	323	381	429	291	488	979	633	1,750	1,630	46E
26	308	323	326	346	428	290	490	980	472	1,740	1,560	46E
27	307	324	319	343	374	297	494	977	466	1,740	1,430	46E
28	307	318	314	342	321	299	497	980	457	1,750	1,370	46E
29	314	314	318	343	-----	300	497	977	453	1,740	1,410	44E
30	324	318	317	345	-----	296	505	980	554	1,720	1,350	44E
31	327	-----	319	345	-----	345	-----	984	-----	1,720	1,160	-----
TOTAL	2,900	9,834	9,968	10,967	9,724	9,334	14,741	20,992	20,688	52,700	50,350	16,012
MEAN	93.5	328	322	354	347	301	491	677	690	1,700	1,624	534
MAX	327	350	332	480	429	345	505	984	992	1,790	1,740	1,110
MIN	0	314	314	315	321	282	451	503	453	780	1,160	44
AC-FT	5,750	19,510	19,770	21,750	19,290	18,510	29,240	41,640	41,030	104,500	99,870	31,760
CAL YEAR 2002	TOTAL	265,112	MEAN	726	MAX	1,820	MIN	0	AC-FT	525,800		
WTR YEAR 2003	TOTAL	228,210	MEAN	625	MAX	1,790	MIN	0	AC-FT	452,700		

E indicates estimated discharge.

SOUTH PLATTE RIVER BASIN

SOUTH PLATTE SUPPLY CANAL (Korty) from South Platte River, 06764900 - 2003

LOCATION.--SE1/4 Sec. 8-13-36 W. near Paxton

GAGE.--Continuous stage recorder and 25 ft. Parshall flume

PERIOD OF RECORD.--1947 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	5.7	24	36	85	31	0	0	0
2	0	0	0	0	5.4	27	36	88	34	0	0	0
3	0	0	0	0	5.0	26	32	71	32	0	0	0
4	0	0	0	0	4.5	27	36	62	31	0	0	0
5	0	0	0	0	4.5	26	39	96	28	0	0	0
6	0	0	0	0	4.5	40	43	75	25	0	0	0
7	0	0	0	0	4.8	62	55	60	26	0	0	0
8	0	0	0	0	5.5	62	66	81	23	0	0	0
9	0	0	0	0	5.6	44	80	78	23	0	0	0
10	0	0	0	0	6.1	44	86	101	25	0	0	0
11	0	0	0	0	6.4	45	78	107	32	0	0	0
12	0	0	0	0	6.0	43	79	98	37	0	0	0
13	0	0	0	0	6.0	39	86	80	43	0	0	0
14	0	0	0	0	9.0	38	92	77	43	0	0	0
15	0	0	0	0	19	34	83	72	35	0	0	0
16	0	0	0	0	22	32	78	59	30	0	0	0
17	0	0	0	0	25	29	82	61	30	0	0	0
18	0	0	0	0	18	31	82	54	29	0	0	0
19	0	0	0	0	17	40	82	57	26	0	0	0
20	0	0	0	0	24	40	81	53	28	0	0	0
21	0	0	0	0	34	39	76	49	34	0	0	0
22	0	0	0	0	26	33	72	53	34	0	0	0
23	0	0	0	0	10	32	73	54	25	0	0	0
24	0	0	0	0	8.6	24	76	56	22	0	0	0
25	0	0	0	0	8.2	27	72	54	11	0	0	0
26	0	0	0	0	9.8	30	71	49	3.3	0	0	0
27	0	0	0	0	12	36	70	46	3.6	0	0	0
28	0	0	0	0	17	36	61	43	4.1	0	0	0
29	0	0	0	0	-----	33	73	41	4.4	0	0	0
30	0	0	0	0	-----	31	89	35	4.5	0	0	0
31	0	-----	0	0	-----	35	-----	31	-----	0	0	-----
TOTAL	0	0	0	0	329.6	1,109	2,065	2,026	756.9	0	0	0
MEAN	0	0	0	0	11.8	35.8	68.8	65.4	25.2	0	0	0
MAX	0	0	0	0	34	62	92	107	43	0	0	0
MIN	0	0	0	0	4.5	24	32	31	3.3	0	0	0
AC-FT	0	0	0	0	654	2,200	4,100	4,020	1,500	0	0	0
CAL YEAR 2002	TOTAL	17,429.0	MEAN	47.8	MAX	451	MIN	0	AC-FT	34,570		
WTR YEAR 2003	TOTAL	6,286.5	MEAN	17.2	MAX	107	MIN	0	AC-FT	12,470		

NORTH & SOUTH PLATTE RIVER BASIN

SUTHERLAND RESERVOIR from North & South Platte Rivers, 00409100 - 2003

LOCATION.--NE1/4 Township 13, Range 33 W. near Sutherland

GAGE.--Staff gage

PERIOD OF RECORD.--1936 - present

REMARKS.--Published as combined total of Sutherland and Maloney Reservoirs before 1988. Values furnished by Central Nebraska Public Power and Irrigation District.

STORAGE LEVEL	ELEVATION (feet)	CONTENT (acre-feet)
Normal maximum operating level	3055.0	64,720
Normal minimum operating level	3041.6	28,350

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47,283	37,701	41,313	42,636	44,689	47,255	47,750	50,556	55,958	58,330	46,162	40,133
2	46,653	37,957	41,339	42,743	44,803	47,338	47,640	50,781	56,540	56,569	45,944	40,447
3	46,380	38,009	41,418	42,982	44,752	47,283	47,640	51,005	56,949	55,290	45,754	41,103
4	45,672	38,163	41,498	42,929	44,833	47,393	47,558	51,146	57,476	54,827	45,482	42,053
5	44,941	38,292	41,445	42,902	44,806	47,503	47,613	51,258	57,858	54,078	45,130	43,089
6	44,348	38,447	41,524	43,062	44,887	47,585	47,750	51,399	58,005	53,446	44,689	44,106
7	43,757	38,601	41,524	42,982	44,941	47,640	47,723	51,512	58,182	53,246	44,482	45,130
8	43,169	38,756	41,577	42,902	45,049	47,310	47,723	51,852	58,271	52,618	44,079	46,162
9	42,663	38,989	41,630	42,822	45,157	47,750	47,778	51,965	58,418	52,277	44,106	47,668
10	42,079	39,041	41,682	42,769	45,238	47,888	47,888	52,135	58,477	51,767	43,596	48,689
11	41,498	39,222	41,630	42,689	45,211	47,970	47,943	52,362	58,684	51,202	43,409	49,662
12	41,024	39,378	41,682	42,715	45,266	48,026	47,915	52,504	59,157	50,921	43,169	50,472
13	40,552	39,508	41,735	42,636	45,347	48,136	47,943	52,590	59,454	50,416	42,902	51,399
14	40,081	39,612	41,709	42,610	45,699	48,274	48,026	52,618	59,602	50,080	42,530	52,192
15	39,430	39,976	41,762	42,556	45,781	48,081	48,274	52,647	59,246	49,411	42,212	53,189
16	39,093	40,159	41,735	42,636	45,890	47,915	48,081	52,704	59,483	49,272	41,946	53,705
17	38,653	40,003	42,000	42,743	45,944	47,998	48,053	52,675	59,810	49,272	41,603	54,510
18	38,215	40,133	41,973	42,955	45,944	47,943	48,246	52,618	60,108	48,828	41,392	55,319
19	36,781	40,185	41,973	42,822	45,998	48,302	48,467	52,618	60,346	48,689	41,630	55,725
20	37,368	40,264	42,000	42,902	46,216	48,274	48,495	52,675	61,183	48,329	41,603	55,870
21	36,985	40,473	42,159	43,035	46,216	48,329	48,467	52,306	61,333	48,026	41,524	55,812
22	36,476	40,525	42,106	43,329	46,271	48,329	48,523	52,334	61,363	47,668	41,339	55,522
23	36,273	40,683	42,132	43,623	46,325	48,302	48,744	52,533	62,084	47,228	41,261	55,116
24	36,374	40,840	42,212	44,025	46,353	48,246	49,077	52,419	62,476	46,899	41,155	54,741
25	36,578	40,892	42,265	44,160	46,598	48,219	49,244	52,789	62,567	46,789	41,103	54,452
26	36,730	40,866	42,318	44,240	46,899	48,164	49,634	53,132	62,597	46,571	40,971	54,078
27	36,858	41,103	42,397	44,294	47,091	48,164	49,745	53,705	62,597	46,489	40,998	53,705
28	37,011	41,182	42,477	44,402	47,200	48,108	49,885	54,135	62,386	46,899	40,656	53,246
29	37,291	41,234	42,663	44,456	-----	48,053	50,220	54,539	62,084	46,353	40,264	52,932
30	37,445	41,261	42,743	44,671	-----	48,136	50,416	54,914	60,585	46,243	40,212	52,732
31	37,547	-----	42,610	44,671	-----	47,943	-----	55,377	-----	46,380	40,003	-----
MAX	47,283	41,261	42,743	44,671	47,200	48,329	50,416	55,377	62,597	58,330	46,162	55,870
MIN	36,273	37,701	41,313	42,556	44,689	47,255	47,558	50,556	55,958	46,243	40,003	40,133
CHANGE	-10,341	3,714	1,349	2,061	2,529	743	2,473	4,961	5,208	-14,205	-6,377	12,729
CAL YEAR 2002			MEAN	45,644	MAX	55,522	MIN	36,273				
WTR YEAR 2003			MEAN	46,861	MAX	62,597	MIN	36,273				

NORTH & SOUTH PLATTE RIVER BASIN

MALONEY RESERVOIR from North & South Platte Rivers, 00405500 - 2003

LOCATION.--NW1/4NW1/4 Sec. 5-12-30 W. near North Platte

GAGE.--Staff gage

PERIOD OF RECORD.--1936 - present

REMARKS.--Published as combined total of Sutherland and Maloney Reservoirs before 1988. Values furnished by Central Nebraska Public Power and Irrigation District.

STORAGE LEVEL	ELEVATION (feet)	CONTENT (acre-feet)
Maximum normal operating level	3006.0	19,450
Normal operating level	3005.0	17,800

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17,965	17,640	17,640	17,000	17,640	17,640	17,640	17,800	17,965	17,480	17,480	17,480
2	17,965	17,800	17,640	17,000	17,800	17,640	17,640	17,800	17,965	17,320	17,480	17,480
3	17,965	17,965	17,640	17,000	17,800	17,640	17,640	17,800	17,965	17,160	17,320	17,480
4	17,965	17,965	17,640	17,160	17,800	17,640	17,640	17,640	17,800	17,160	17,320	17,800
5	17,965	17,800	17,480	17,480	17,800	17,640	17,640	17,640	17,800	17,160	17,320	18,130
6	17,965	17,800	17,480	17,480	17,640	17,640	17,800	17,640	17,800	17,160	17,320	18,130
7	17,965	17,965	17,640	17,480	17,640	17,640	17,800	17,640	17,965	17,160	17,320	18,130
8	17,965	17,965	17,965	17,480	17,640	17,640	17,800	17,640	17,965	17,160	17,320	18,130
9	17,800	17,800	17,800	17,640	17,640	17,640	17,800	17,480	17,965	17,320	17,480	18,130
10	17,800	17,800	17,965	17,640	17,640	17,640	17,800	17,480	17,965	17,480	17,480	17,965
11	17,800	17,800	17,965	17,640	17,640	17,640	17,800	17,480	17,965	17,480	17,480	17,800
12	17,800	17,640	17,800	17,640	17,640	17,640	17,800	17,480	17,965	17,480	17,480	17,640
13	17,640	17,640	17,640	17,640	17,640	17,640	17,800	17,480	17,965	17,480	17,480	17,480
14	17,320	17,640	17,800	17,800	17,640	17,640	17,800	17,480	17,965	17,320	17,480	17,480
15	16,520	17,640	17,800	17,800	17,640	17,640	17,800	17,480	18,130	17,320	17,480	17,320
16	17,160	17,640	17,800	17,800	17,640	17,640	17,800	17,480	18,130	17,320	17,480	17,160
17	17,000	17,640	17,800	17,800	17,640	17,640	17,800	17,480	18,295	17,320	17,320	17,000
18	17,000	17,480	17,800	17,965	17,640	17,800	17,965	17,480	18,130	17,480	17,480	16,840
19	17,000	17,480	17,800	17,800	17,640	17,800	17,965	17,480	18,130	17,480	17,480	16,840
20	16,840	17,640	17,800	17,800	17,640	17,800	17,965	17,640	17,800	17,640	17,480	16,680
21	16,840	17,640	17,800	17,800	17,640	17,800	17,965	17,800	17,800	17,640	17,480	16,680
22	17,000	17,320	17,480	17,800	17,640	17,800	17,965	17,800	17,800	17,640	17,480	16,680
23	17,000	17,320	17,480	17,800	17,640	17,640	18,130	17,965	17,965	17,640	17,320	16,680
24	17,160	17,320	17,320	17,800	17,640	17,640	18,130	17,965	17,965	17,640	17,320	16,680
25	17,320	17,320	17,320	17,800	17,640	17,800	17,965	18,130	17,800	17,320	17,320	16,520
26	17,480	17,000	17,160	17,640	17,640	17,800	17,965	18,130	17,800	17,480	17,320	16,520
27	17,640	17,160	17,160	17,640	17,640	17,800	17,800	18,130	17,640	17,480	17,320	16,360
28	17,800	17,160	17,160	17,640	17,640	17,640	17,800	17,965	17,480	17,640	17,320	16,360
29	17,965	17,320	17,160	17,640	-----	17,800	17,800	17,965	17,480	17,640	17,320	16,360
30	17,800	17,480	17,000	17,640	-----	17,800	17,800	17,965	17,320	17,480	17,320	16,200
31	17,640	-----	16,840	17,640	-----	17,640	-----	17,965	-----	17,480	17,480	-----
MAX	17,965	17,965	17,965	17,965	17,800	17,800	18,130	18,130	18,295	17,640	17,480	18,130
MIN	16,520	17,000	16,840	17,000	17,640	17,640	17,640	17,480	17,320	17,160	17,320	16,200
CHANGE	-320	-160	-640	800	0	0	160	165	-645	160	0	-1,280
CAL YEAR 2002			MEAN	17,453	MAX	18,460	MIN	13,780				
WTR YEAR 2003			MEAN	17,592	MAX	18,295	MIN	16,200				

NORTH & SOUTH PLATTE RIVER BASIN

SUTHERLAND POWER RETURN to the South Platte River, 00140000 - 2003

LOCATION.--NE1/4 Sec. 21-13-30 W. at North Platte

GAGE.--Differential pressure recorder

PERIOD OF RECORD.--1939 - present

REMARKS.--Values furnished by the Nebraska Public Power District

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	94.0	0	53.0	172	170	316	354	562	931	1,465	1,036
2	189	0	0	195	115	169	312	342	525	1,156	1,459	859
3	188	0	0	141	175	171	316	334	511	1,418	1,464	662
4	190	90.0	89.0	57.0	175	169	0	322	558	1,661	1,448	383
5	190	87.0	239	57.0	173	181	1.0	322	423	1,642	1,454	109
6	186	90.0	81.0	143	144	170	2.0	325	308	1,649	1,508	68.0
7	168	31.0	38.0	145	57.0	170	294	322	281	1,632	1,536	58.0
8	189	31.0	39.0	169	57.0	170	338	324	320	1,632	1,539	150
9	189	172	159	116	57.0	164	357	326	270	1,538	1,538	342
10	188	87.0	153	136	57.0	167	364	325	237	1,530	1,543	0
11	188	91.0	188	151	57.0	169	352	333	264	1,544	1,543	0
12	192	91.0	187	153	166	174	367	338	335	1,537	1,529	0
13	195	59.0	169	204	176	172	359	330	431	1,536	1,529	0
14	276	59.0	128	196	177	168	326	332	376	1,532	1,535	0
15	200	89.0	99.0	117	177	171	328	333	393	1,538	1,517	0
16	145	87.0	191	118	173	169	361	336	386	1,542	1,507	0
17	148	86.0	197	201	142	170	362	345	367	1,524	1,508	0
18	147	103	196	201	148	168	363	320	431	1,495	1,532	0
19	147	32.0	193	272	150	169	361	331	343	1,492	1,536	0
20	146	0	196	118	130	177	357	362	478	1,505	1,394	0
21	117	0	193	145	125	179	359	349	469	1,500	1,391	0
22	68.0	0	195	172	145	175	361	651	502	1,510	1,375	0
23	76.0	0	192	173	170	174	358	743	249	1,492	1,361	0
24	62.0	0	196	183	167	175	368	728	225	1,495	1,353	0
25	57.0	0	192	173	169	174	381	742	347	1,487	1,365	0
26	57.0	0	193	229	168	174	376	551	353	1,498	1,399	0
27	57.0	0	195	197	168	180	373	536	349	1,501	1,397	0
28	57.0	0	195	175	169	190	376	608	290	1,457	1,336	0
29	142	0	194	175	-----	195	337	552	333	1,423	1,334	0
30	169	0	195	175	-----	189	346	564	643	1,458	1,343	0
31	148	-----	219	176	-----	167	-----	549	-----	1,460	1,188	-----
TOTAL	4,659.0	1,379.0	4,701.0	4,916.0	3,959.0	5,380	9,471.0	13,229	11,559	46,315	44,926	3,667.0
MEAN	150	46.0	152	159	141	174	316	427	385	1,494	1,449	122
MAX	276	172	239	272	177	195	381	743	643	1,661	1,543	1,036
MIN	57.0	0	0	53.0	57.0	164	0	320	225	931	1,188	0
AC-FT	9,241	2,735	9,324	9,751	7,853	10,671	18,786	26,240	22,927	91,866	89,111	7,273
CAL YEAR 2002	TOTAL	208,201.00	MEAN	570	MAX	1,730	MIN	0	AC-FT	412,961		
WTR YEAR 2003	TOTAL	154,161.00	MEAN	422	MAX	1,661	MIN	0	AC-FT	305,778		

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER near Keystone, 06690500 - 2003

LOCATION.--SW1/4 Sec. 1-14-38 W., Keith County, Lat. 41°12'40", Long. 101°37'56", on right bank 0.2 miles downstream from diversion dam of Sutherland Reservoir supply canal and 2.3 miles southwest of Keystone.

DRAINAGE AREA.--29,300 square miles; approximately 25,800 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 3,105.59 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--Periodic records 1917, 1939, 1940 - 1941, continuous record March 1942 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except records below 100 cubic feet per second are variable fair to poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 20,300 cubic feet per second June 30, 1917; no flow during many years.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,850 cubic feet per second July 19, gage height 4.66 feet; zero discharge February 1 to March 13 and September 14 to 30.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.6	12	12	0	0	8.8	6.5	126	819	1,360	305
2	10	8.4	11	12	0	0	7.9	6.4	156	960	1,350	268
3	13	8.5	11	11	0	0	6.4	6.8	164	1,000	1,330	237
4	4.0	8.1	11	9.6	0	0	6.0	6.2	151	804	1,260	232
5	1.8	7.8	10	9.0	0	0	6.0	5.1	139	803	1,260	230
6	10	7.6	8.4	9.2	0	0	5.7	5.0	90	790	1,240	222
7	12	7.7	8.0	11	0	0	5.9	6.2	89	777	1,340	211
8	12	7.6	7.9	14	0	0	10	5.3	75	792	1,440	205
9	13	7.9	7.8	14	0	0	10	4.7	66	1,030	1,500	207
10	13	8.7	7.8	14	0	0	10	4.6	65	1,160	1,020	80
11	12	8.6	7.8	14	0	0	9.6	5.2	86	1,390	1,130	4.5
12	8.1	8.6	8.8	14	0	0	8.1	7.1	100	1,550	1,250	4.3
13	9.0	8.6	10	14	0	0	7.9	7.2	127	1,550	1,100	3.9
14	8.8	8.4	11	14	0	5.4	7.7	7.0	175	1,580	1,110	0
15	9.9	8.4	11	13	0	6.8	6.9	6.8	204	1,670	866	0
16	9.5	8.2	11	6.6	0	5.5	6.1	6.6	213	1,740	777	0
17	8.9	8.2	11	6.0	0	5.0	6.3	6.2	229	1,790	782	0
18	9.3	7.9	11	5.6	0	5.8	9.2	5.8	217	1,780	766	0
19	9.0	8.1	7.5	5.5	0	5.8	11	5.3	195	1,790	780	0
20	10	8.2	7.0	5.4	0	5.9	15	4.9	186	1,770	740	0
21	12	7.9	9.5	5.3	0	6.3	15	4.6	126	1,560	703	0
22	12	10	10	5.1	0	9.3	9.5	6.6	63	1,430	709	0
23	12	10	12	5.0	0	8.4	9.1	8.7	69	1,420	684	0
24	12	10	13	4.9	0	6.3	9.6	7.9	73	1,280	655	0
25	12	9.6	12	4.8	0	5.2	10	7.4	69	1,350	569	0
26	11	7.3	12	4.8	0	4.9	8.5	7.1	59	1,450	469	0
27	12	8.9	9.9	4.8	0	5.5	8.7	37	132	1,440	429	0
28	11	9.8	9.3	4.4	0	8.3	9.5	60	264	1,430	419	0
29	11	9.1	9.0	4.1	-----	8.2	8.8	58	315	1,430	397	0
30	10	8.5	9.6	3.8	-----	8.4	7.8	93	599	1,470	382	0
31	8.7	-----	11	3.6	-----	10	-----	110	-----	1,480	385	-----
TOTAL	318.0	255.2	308.3	264.5	0	121.0	261.0	519.2	4,622	41,285	28,202	2,209.7
MEAN	10.3	8.51	9.95	8.53	0	3.90	8.70	16.7	154	1,332	910	73.7
MAX	13	10	13	14	0	10	15	110	599	1,790	1,500	305
MIN	1.8	7.3	7.0	3.6	0	0	5.7	4.6	59	777	382	0
AC-FT	631	506	612	525	0	240	518	1,030	9,170	81,890	55,940	4,380
CAL YEAR 2002	TOTAL	148,613.60	MEAN	407	MAX	3,420	MIN	0	AC-FT	294,800		
WTR YEAR 2003	TOTAL	78,365.90	MEAN	215	MAX	1,790	MIN	0	AC-FT	155,400		

NORTH PLATTE RIVER BASIN

KEITH - LINCOLN COUNTY CANAL from North Platte River, 00076000 - 2003

LOCATION.--NE1/4SE1/4 Sec. 18-14-36 W. near Roscoe

GAGE.--Continuous stage recorder and 10 ft. Parshall flume

PERIOD OF RECORD.--1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	46	0	63
2								0	0	65	30	60
3								0	0	82	67	59
4							0	0	0	84	67	59
5							0	0	0	73	68	59
6							0	0	0	62	69	59
7							0	0	0	63	70	59
8							0	0	0	64	69	17
9							0	0	0	63	69	0
10							0	0	0	62	68	0
11							0	0	0	62	68	0
12							0	0	0	62	68	0
13							0	0	0	62	68	0
14							0	0	0	56	68	0
15							0	0	0	54	68	
16							0	0	0	61	70	
17							0	0	11	63	75	
18							0	0	15	61	76	
19							0	0	40	61	75	
20							0	0	31	61	71	
21							0	0	30	62	66	
22							0	0	0	61	65	
23							0	0	0	61	65	
24							0	0	30	61	65	
25							0	0	37	60	66	
26							0	0	26	60	62	
27							0	0	34	41	64	
28							0	0	48	29	68	
29					-----		0	0	46	49	68	
30					-----		0	0	46	38	65	
31		-----			-----		-----	0	-----	0	67	-----
TOTAL							0	0	394	1,789	2,005	435
MEAN							0	0	13.1	57.7	64.7	31.1
MAX							0	0	48	84	76	63
MIN							0	0	0	0	0	0
AC-FT							0	0	781	3,550	3,980	863
CAL YEAR 2002	MAX	99	MIN	0	AC-FT	15,480						
WTR YEAR 2003	MAX	84	MIN	0	AC-FT	9,170						

NORTH PLATTE RIVER BASIN

NORTH PLATTE CANAL from North Platte River, 00114000 - 2003

LOCATION.--SE1/4NE1/4 Sec. 18-14-33 W. near Sutherland

GAGE.--Continuous stage recorder and 15 ft. Parshall flume

PERIOD OF RECORD.--1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1								55	95	181	186	172	
2								57	97	218	183	162	
3								65	112	261	183	160	
4								86	110	251	198	153	
5								80	110	275	200	134	
6								75	114	271	216	125	
7								73	112	257	224	126	
8								82	110	246	230	114	
9								71	100	232	222	99	
10								70	95	226	205	46	
11								69	93	235	199	0	
12								65	93	241	184	0	
13								61	102	242	175	0	
14								59	99	270	195	0	
15								59	107	269	197	0	
16								60	117	258	197	0E	
17								57	95	242	198	0E	
18								54	92	223	200	0E	
19								61	88	218	222	0E	
20								58	82	225	220	0E	
21									69	51	241	223	12E
22								30E	65	0	235	223	33
23								56	63	0	238	218	49
24								55	67	0	237	205	50
25								54	66	0	245	199	52
26								52	64	20	245	203	52
27								52	65	85	226	197	51
28								51	68	95	207	198	24
29					-----			52	94	143	214	195	0
30					-----			56	97	161	208	186	0
31		-----			-----		-----	93	-----	188	184	-----	
TOTAL								458	2,128	2,578	7,325	6,265	1,614
MEAN								50.9	68.6	85.9	236	202	53.8
MAX								56	97	161	275	230	172
MIN								30	54	0	181	175	0
AC-FT								908	4,220	5,110	14,530	12,430	3,200
CAL YEAR 2002	MAX	294	MIN	0	AC-FT	47,130							
WTR YEAR 2003	MAX	275	MIN	0	AC-FT	40,400							

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

PAXTON-HERSHEY CANAL from North Platte River, 00121000 - 2003

LOCATION.--SE1/4SE1/4 Sec. 7-14-33 W. near Sutherland

GAGE.--Continuous stage recorder and 10 ft. Parshall flume

PERIOD OF RECORD.--1916, 1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								19	47	45	55	45
2								17	23	39	53	48
3								16	0	38	52	49
4							0	15	0	37	51	52
5							0	15	0	39	49	59
6							0	15	31	39	51	58
7							0	14	37	37	55	53
8							0	19	32	36	59	56
9							0	28	34	36	58	57
10							0	26	35	35	48	46
11							0	25	32	35	42	0
12							0	22	34	38	55	0
13							0	20	48	38	56	0
14							0	18	48	39	54	0
15							0	17	47	39	52	
16							0	19	47	39	45	
17							0	18	45	40	49	
18							0	16	46	39	56	
19							0	18	46	39	55	
20							0	16	47	39	54	
21							0	0	44	38	51	
22							4.0	6.4	40	38	50	
23							16	10	38	40	51	
24							18	11	36	39	50	
25							18	10	15	39	53	
26							18	11	0	41	56	
27							17	11	0	42	58	
28							17	9.3	0	41	55	
29					-----		16	13	41	48	49	
30					-----		19	15	54	54	45	
31		-----			-----		-----	29	-----	54	47	-----
TOTAL							143.0	498.7	947	1,240	1,614	523
MEAN							5.30	16.1	31.6	40.0	52.1	37.4
MAX							19	29	54	54	59	59
MIN							0	0	0	35	42	0
AC-FT							284	989	1,880	2,460	3,200	1,040
CAL YEAR 2002	MAX	98	MIN	0	AC-FT	16,620						
WTR YEAR 2003	MAX	59	MIN	0	AC-FT	9,850						

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER near Sutherland, 06691000 - 2003

LOCATION.--SW1/4SW1/4 Sec. 4-14-33 W., Lincoln County, Lat. 41° 12' 37", Long. 101° 06' 53", on right bank 200 feet south and 75 feet west of right end of bridge on county road, 2.5 miles upstream from Birdwood Creek and 3.5 miles north of Sutherland.

GAGE.--Continuous stage recorder. Elevation of gage 2,920 feet, from topographic map, Hershey West Quadrangle, 7.5 minute series.

PERIOD OF RECORD.--1917, 1931 - 1933, 1935, Irrigation season only, 1936 - 1992, all year record, 1993 - present, May - September partial year record, October 1999 - present.

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 20,300 cubic feet per second June 29, 1917, from discharge graph based on daily gage readings, from rating curve extended above 16,000 cubic feet per second; no flow July 24 - 28, 30, 31, 1931, August 7, 1934, July 20 - 28, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,620 cubic feet per second July 27, gage height 4.76 feet; minimum daily discharge 18 cubic feet per second May 31.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	112	122	113	134	96E	88	94	21	254	1,460	148
2	128	109	122	114	131	114E	95	77	70	427	1,270	116
3	138	116	112	119	130E	110E	109	66	124	521	1,110	79
4	149	117	109	119	120E	100E	115	70	132	502	1,030	55
5	145	119	113	114	116E	86E	113	52	130	375	963	59
6	132	122	118	105	114E	88E	133	45	98	391	954	67
7	124	122	116	108	94E	90E	128	39	74	398	906	62
8	121	123	112	105	84E	94	135	45	60	424	1,040	71
9	123	130	114	94	106E	90	143	58	44	460	1,110	142
10	132	123	115	85	106E	113	144	55	35	652	1,300	188
11	133	119	119	72	104	105	125	54	33	750	863	194
12	127	111	117	72E	103	95	127	47	30	942	949	148
13	125	108	115	70E	103	91	129	43	96	1,060	982	129
14	118	106	114	76E	113	96	127	40	77	1,070	860	121
15	114	106	111	80E	105	95	129	39	69	1,080	818	120
16	119	110	109	48E	116	94	155	40	76	1,170	606	120
17	129	113	100	60E	115	96	149	40	83	1,220	533	112
18	123	116	100	70E	110	103	147	41	110	1,300	530	104
19	114	112	100E	80E	107	117	166	41	113	1,340	469	100
20	115	121	100E	90E	104	107	162	38	112	1,390	438	98
21	116	122	98E	100E	103	100	157	36	238	1,320	361	75
22	113	115	90E	96E	96	99	80	35	207	1,040	349	51
23	112	114	88E	88E	90E	99	96	33	165	1,010	340	48
24	105	114	90E	86E	88E	93	115	31	139	953	345	42
25	108	116	94E	86E	86E	91	103	29	133	872	359	38
26	108	116E	96E	88E	86E	89	88	26	133	1,040	305	37
27	123	114E	98E	90E	88E	91	77	25	62	1,440	232	36
28	138	114E	100E	92E	90E	85	72	23	59	1,380	230	57
29	139	118E	110E	120E	-----	75	70	21	59	1,340	186	78
30	137	124	121	132	-----	76	111	20	65	1,350	161	87
31	119	-----	112	136	-----	83	-----	18	-----	1,430	147	-----
TOTAL	3,842	3,482	3,335	2,908	2,942	2,961	3,588	1,321	2,847	28,901	21,206	2,782
MEAN	124	116	108	93.8	105	95.5	120	42.6	94.9	932	684	92.7
MAX	149	130	122	136	134	117	166	94	238	1,440	1,460	194
MIN	105	106	88	48	84	75	70	18	21	254	147	36
AC-FT	7,620	6,910	6,610	5,770	5,840	5,870	7,120	2,620	5,650	57,330	42,060	5,520
CAL YEAR 2002 TOTAL		142,630	MEAN	391	MAX	3,260	MIN	43	AC-FT	282,900		
WTR YEAR 2003 TOTAL		80,115	MEAN	219	MAX	1,460	MIN	18	AC-FT	158,900		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

BIRDWOOD CANAL from Birdwood Creek, 00016000 - 2003

LOCATION.--SE1/4SW1/4 Sec. 35-15-33 W. near Hershey

GAGE.--Continuous stage recorder and 8 ft. Parshall flume

PERIOD OF RECORD.--1921 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.8							0	26.9	11.8	26.0	33.8
2	25.1							0	28.3	29.5	25.8	32.7
3	25.8						0	0	29.9	32.6	26.3	32.6
4	26.3						0	0	29.7	33.2	25.9	32.7
5	25.8						0	0	27.9	33.2	26.4	29.8
6	25.9						0	0	28.2	33.8	26.6	21.7
7	25.5						0	0	30.1	36.6	26.4	22.0
8	22.2						0	0	30.1	38.8	33.4	22.9
9	20.4						0	0	29.0	38.5	39.5	22.7
10	20.5						0	0	29.4	37.5	37.9	20.7
11	16.3						0	0	29.9	37.8	32.9	21.1
12	13.6						0	18.4	29.3	37.7	33.2	17.1
13	14.1						0	8.6	29.8	38.5	33.5	14.3
14	13.8						0	0	29.9	38.9	30.6	14.4
15	11.9						0	0	30.5	39.2	28.5	14.3
16	11.7						0	0	30.4	39.8	28.9	14.1
17	11.7						0	0	30.1	41.5	29.0	14.5
18	11.9						0	0	29.3	42.3	29.1	14.7
19	12.1						0	6.2	30.0	42.6	29.1	14.9
20	12.4						0	29.0	30.5	43.5	29.1	14.5
21	12.5						0	29.5	28.9	44.2	32.1	15.3
22	12.6						0	30.5	18.0	44.2	33.3	15.8
23	13.3						0	31.5	15.0	52.0	32.1	15.7
24	9.7						0	27.8	15.6	54.9	31.7	15.8
25	0						0	23.1	14.1	45.3	30.9	15.4
26	0						0	23.7	13.5	42.0	31.6	15.1
27	0						0	24.1	13.4	26.7	32.1	5.5
28	0						0	24.7	13.2	10.9	32.7	0
29					-----		0	24.8	12.6	15.2	33.2	0
30					-----		0	25.8	5.3	26.2	33.7	0
31		-----			-----		-----	26.3	-----	25.2	33.7	-----
TOTAL	418.9						0	354.0	738.8	1,114.1	955.2	524.1
MEAN	15.0						0	11.4	24.6	35.9	30.8	17.5
MAX	26.3						0	31.5	30.5	54.9	39.5	33.8
MIN	0						0	0	5.3	10.9	25.8	0
AC-FT	831						0	702	1,465	2,210	1,895	1,040
CAL YEAR 2002	MAX	43.0	MIN	0	AC-FT	10,615						
WTR YEAR 2003	MAX	54.9	MIN	0	AC-FT	8,143						

NORTH PLATTE RIVER BASIN

BIRDWOOD CREEK near Hershey, 06692000 - 2003

LOCATION.--NE1/4NW1/4 Sec. 2-14-33 W., Lincoln County, Lat. 41° 13' 20", Long. 101° 04' 12"

GAGE.--Continuous stage recorder

PERIOD OF RECORD.-- May - September partial year record 1994 - 1999, full time operation May 1931 - 1993, 2000 - present.
Records are poor.

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharge 243 cubic feet per second July 27, gage height 1.79 feet; minimum daily discharge 101 cubic feet per second July 24.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	150	158	161	169	165	159	177	128	151	130	113
2	141	168	161	158	170	160	159	172	133	133	126	113
3	143	163	157	160	158	163	157	175	150	134	126	111
4	141	159	156	164	157	164	164	226	147	136	127	112
5	139	165	159	159	160	157	155	195	131	131	123	118
6	134	164	159	160	155	167	162	173	128	131	121	125
7	135	174	163	161	155E	168	156	171	139	127	122	124
8	139	171	162	165	157	166	158	198	133	136	113	125
9	144	171	159	162	162	160	173	210	127	129	113	130
10	146	167	156	155	164	160	168	195	124	122	131	131
11	152	161	157	157	165	168	161	182	122	120	117	121
12	148	161	157	157	163	170	160	147	123	119	115	128
13	147	167	155	164	165	169	159	163	149	119	113	132
14	148	167	160	164	167	171	160E	167	135	119	110	133
15	146	169	163	161	159	171	160E	166	122	115	109	135
16	151	163	162	160E	158	166	165E	169	122	116	108	134
17	145	166	159	160E	166	177	165E	165	132	116	107	136
18	148	164	158	163	165	189	165E	166	147	114	107	134
19	147	163	154	168	166	180	170E	164	128	115	108	132
20	147	162	153	170	166	165	170E	127	132	118	107	134
21	147	166	154	168	165	163	170E	124	202	117	107	136
22	146	164	149	162	163	165	175E	124	157	114	106	138
23	147	161	149	170	159	164	180E	126	151	106	106	138
24	150	160	151	170E	150E	161	199	133	155	101	106	133
25	164	162	153	172	155E	160	184	133	148	108	108	134
26	159	158	152	164	162	161	179	131	146	107	110	134
27	164	157	153	167	160	165	182	129	147	178	109	145
28	166	159	160	171	161	157	170	129	148	162	111	149
29	169	165	162	166	-----	152	172	128	150	176	109	149
30	156	162	158	162	-----	155	187	127	163	150	106	158
31	142	-----	157	168	-----	159	-----	123	-----	133	111	-----
TOTAL	4,588	4,909	4,866	5,069	4,522	5,118	5,044	4,915	4,219	3,953	3,522	3,935
MEAN	148	164	157	164	162	165	168	159	141	128	114	131
MAX	169	174	163	172	170	189	199	226	202	178	131	158
MIN	134	150	149	155	150	152	155	123	122	101	106	111
AC-FT	9,100	9,740	9,650	10,050	8,970	10,150	10,000	9,750	8,370	7,840	6,990	7,810
CAL YEAR 2002 TOTAL		52,500	MEAN	144	MAX	182	MIN	97	AC-FT	104,100		
WTR YEAR 2003 TOTAL		54,660	MEAN	150	MAX	226	MIN	101	AC-FT	108,400		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

SUBURBAN CANAL from North Platte River, 00136000 - 2003

LOCATION.--SE1/4SE1/4 SEC. 7-14-32 W. near Hershey

GAGE.--Continuous stage recorder and 12 ft. Parshall flume

PERIOD OF RECORD.--1919, 1921 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								15	55	60	80	60
2								14	59	62	77	67
3								14	62	68	73	64
4							0	15	62	70	88	61
5							0	16	61	66	85	60
6							0	23	59	76	84	63
7							0	30	51	76	82	62
8							0	36	50	79	86	62
9							0	42	49	91	89	66
10							0	44	49	94	83	53
11							0	45	48	87	57	30
12							0	43	47	91	65	29
13							0	43	47	92	66	29
14							0	44	47	85	63	29
15							0	44	47	84	63	29
16							0	47	48	86	60	30
17							0	48	47	94	59	16
18							0	48	48	106	72	0
19							0	48	47	108	70	0
20							0	48	47	113	71	0
21							0	47	51	109	80	0
22							0	49	44	103	76	0
23							13	46	53	108	72	0
24							16	46	51	99	70	0
25							43	46	49	93	69	0
26							21	46	51	95	73	0
27							19	46	53	105	69	0
28							15	52	52	96	69	0
29					-----		15	56	51	95	68	0
30					-----		15	55	53	86	63	0
31		-----			-----		-----	54	-----	79	62	-----
TOTAL							157	1,250	1,538	2,756	2,244	810
MEAN							5.81	40.3	51.3	88.9	72.4	27.0
MAX							43	56	62	113	89	67
MIN							0	14	44	60	57	0
AC-FT							311	2,480	3,050	5,470	4,450	1,610
CAL YEAR 2002	MAX	109	MIN	0	AC-FT	19,330						
WTR YEAR 2003	MAX	113	MIN	0	AC-FT	17,370						

NORTH PLATTE RIVER BASIN

CODY-DILLON CANAL from North Platte River, 00027000 - 2003

LOCATION.--SE1/4NE1/4 Sec. 9-14-31 W. near North Platte

GAGE.--Continuous stage recorder and concrete control

PERIOD OF RECORD.--1919, 1921 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	0					0	0	.99	5.3	15	8.9
2	8.4	0					0	0	1.3	20	14	6.3
3	9.0	0					0	0	8.4	21	15	9.4
4	9.4	0					0	0	23	22	15	12
5	8.8						0	0	22	18	15	5.2
6	7.9						0	0	18	19	14	.72
7	7.9						0	0	17	20	15	2.2
8	8.8					0	0	0	14	22	15	1.3
9	9.3					0	0	0	10	22	16	.88
10	9.5					0	0	0	8.6	26	19	1.1
11	9.4					0	0	0	4.6	27	17	6.2
12	8.3					0	0	0	2.2	22	15	3.2
13	8.5					0	0	0	11	21	15	2.1
14	8.3					0	0	0	19	21	13	1.5
15	6.8					0	0	0	12	21	12	1.2
16	6.7					0	0	0	9.3	22	11	.95
17	6.6					0	0	0	11	25	9.2	3.8
18	6.8					0	0	0	16	28	18	6.1
19	6.3					0	0	.07	14	30	16	7.3
20	5.7					0	0	.11	11	23	16	8.7
21	5.4					0	0	.09	15	20	17	9.5
22	4.5					0	0	.44	18	23	16	6.4
23	3.6					0	0	1.1	7.0	22	17	6.0
24	3.5					0	0	.87	3.9	24	16	4.3
25	4.5					0	0	.58	4.2	23	17	6.8
26	6.3					0	0	.60	9.1	24	16	13
27	7.0					0	0	.70	5.1	30	7.4	15
28	7.2					0	0	.73	1.6	28	2.6	14
29	4.8					0	0	.70	1.5	28	4.3	18
30	0				-----	0	0	.74	1.4	24	1.3	20
31	0	-----			-----	0	-----	.77	-----	18	2.2	-----
TOTAL	203.7	0				0	0	7.50	300.19	699.3	412.0	202.05
MEAN	6.57	0				0	0	.24	10.0	22.6	13.3	6.74
MAX	9.5	0				0	0	1.1	23	30	19	20
MIN	0	0				0	0	0	.99	5.3	1.3	.72
AC-FT	404	0				0	0	15	595	1,390	817	401
CAL YEAR 2002	MAX	40	MIN	0	AC-FT	6,000						
WTR YEAR 2003	MAX	30	MIN	0	AC-FT	3,620						

NORTH PLATTE RIVER BASIN

LINCOLN COUNTY DRAIN NO. 1 at North Platte, 06692500 - 2003

LOCATION.--NE1/4NE1/4 Sec. 30-14-30 W.

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--Partial year record 1993 - 1999. Continuous record 1931 - 1932, 1955 - 1992, 2000 - present

REMARKS.--Published by U. S. Geological Survey up to October 1, 1979. Records are good, except estimated records are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharge 108 cubic feet per second August 12, gage height 1.71 feet; maximum gage height 2.00 feet June 17; minimum daily discharge 8.0 cubic feet per second March 29 & 30.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	30	25	19	21	17	15	33	59	51	72	60
2	44	29	24	18	21	17	15	26	64	50	79	52
3	44	29	23	18	20	17	15	26	64	55	77	60
4	43	28	23	18	20	16	15	49	64	47	74	68
5	41	29	23	18	20	17	15	47	65	42	74	68
6	40	29	23	18	19	17	16	41	72	41	72	78
7	39	29	23	19	18E	16	15	34	70	40	75	84
8	38	29	23	18	19	15	15	40	64	49	72	86
9	37	28	24	18	19	15	15	42	61	51	75	84
10	36	28	22	18	18	15	16	38	57	50	83	86
11	35	27	22	19	18	16	16	40	58	41	88	63
12	33	27	22	19	18	16	16	36	59	43	96	60
13	32	27	21	19	18	15	16	34	60	41	78	56
14	32	27	21	19	18	15	16	33	59	46	70	54
15	31	27	21	20	17	15	16	33	52	42	78	56
16	31	27	21	20E	17	14	17	34	51	36	75	52
17	31	27	21	19E	18	14	16	34	69	40	76	50
18	30	26	21	19	17	16	17	32	60	44	74	48
19	30	27	21	19	17	16	17	36	60	44	72	47
20	30	27	20	19	17	16	17	36	54	44	75	45
21	30	26	20	20	17	16	17	38	68	45	65	43
22	32	26	20	19	17	16	20	41	54	42	58	49
23	33	26	19	19E	15E	16	37	36	49	39	52	58
24	32	26	19	19	15E	16	40	34	49	42	55	53
25	31	25	19	19	16E	16	38	33	46	41	47	56
26	31	24	19	19	17E	15	31	35	46	40	43	55
27	31	25	19	19	17	15	29	35	50	43	42	54
28	31	25	19	20	17	15	27	36	49	54	43	53
29	30	25	20	21	-----	15	26	43	54	51	52	42
30	32	24	19	21	-----	15	33	44	56	55	67	40
31	31	-----	19	21	-----	15	-----	50	-----	64	59	-----
TOTAL	1,065	809	656	591	501	485	614	1,149	1,743	1,413	2,118	1,760
MEAN	34.4	27.0	21.2	19.1	17.9	15.6	20.5	37.1	58.1	45.6	68.3	58.7
MAX	44	30	25	21	21	17	40	50	72	64	96	86
MIN	30	24	19	18	15	14	15	26	46	36	42	40
AC-FT	2,110	1,600	1,300	1,170	994	962	1,220	2,280	3,460	2,800	4,200	3,490

CAL YEAR 2002	TOTAL	14,636	MEAN	40.1	MAX	107	MIN	16	AC-FT	29,030
WTR YEAR 2003	TOTAL	12,904	MEAN	35.4	MAX	96	MIN	14	AC-FT	25,600

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER at North Platte, 06693000 - 2003

LOCATION.--Sec. 28-14-30 W., Lincoln County, Lat. 41° 09' 13", Long. 100° 45' 16", on right bank 150 feet downstream from bridge on U.S. Highway 83, 0.5 mile north of North Platte and 4.5 miles upstream from confluence with South Platte River.

DRAINAGE AREA.--30,900 square miles, approximately 26,300 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum 2,792.14 feet above sea level.

PERIOD OF RECORD.--February 1895 - present, Monthly discharge only for some periods published by USGS in WSP 1310.

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 29,600 cubic feet per second June 11, 1909.
Minimum daily discharge 20 cubic feet per second September 20, 1904.
Minimum daily since 1943, 97 cubic feet per second June 16, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,290 cubic feet per second July 21, gage height 5.24 feet; maximum gage height 5.26 feet December 26 due to backwater from ice conditions; minimum daily discharge 185 cubic feet per second May 30 & 31.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	319	296	307	322	336	330E	308	347	221	198	1,140	296
2	348	302	312	324	335	340E	309	333	256	264	1,150	282
3	364	323	308	324	340	342	302	401	274	390	1,100	260
4	368	322	301	325	333	336	306	424	271	474	992	234
5	364	313	296	332	329	329	317	349	271	496	911	216
6	348	313	304	327	331	334	321	300	275	458	864	210
7	338	317	309	319	337	325	326	287	258	471	835	213
8	322	322	313	319	329	326	325	311	224	496	811	222
9	321	323	315	325	319	327	347	309	206	512	857	233
10	317	317	310	333	324	334	359	307	203	523	976	263
11	309	309	311	329	324	336	354	290	219	608	1,040	295
12	302	313	317	338	319	334	341	283	222	689	870	315
13	310	310	305	336	319	337	334	273	253	847	857	303
14	307	305	301	329	320	339	331	240	256	960	859	288
15	305	316	310	320	336	340	329	239	237	976	805	275
16	310	321	314	300E	335	341	355	236	247	990	748	265
17	312	324	316	290E	337	348	362	230	249	1,060	632	256
18	306	319	318	300E	338	378	347	230	265	1,170	569	259
19	291	313	311	310E	334	386	339	233	284	1,220	553	264
20	287	310	308	320E	326	381	338	221	286	1,260	527	263
21	284	309	311	330E	328	345	322	222	308	1,280	507	259
22	285	303	327	330E	329	328	311	221	420	1,240	471	253
23	301	299	327	320E	300E	319	313	224	391	1,040	447	246
24	301	301	280E	310E	290E	321	357	221	338	971	427	234
25	304	297	290E	320E	300E	333	347	219	311	898	420	228
26	305	297	300E	320E	310E	367	305	212	266	820	417	228
27	308	290	310E	310E	320E	370	272	203	241	914	397	228
28	306	288	300E	320E	320E	365	275	194	212	1,170	365	233
29	308	302	320E	320E	-----	334	273	188	193	1,170	345	243
30	323	302	340E	330E	-----	314	319	185	191	1,150	327	266
31	309	-----	351	340E	-----	304	-----	185	-----	1,120	308	-----
TOTAL	9,782	9,276	9,642	9,972	9,098	10,543	9,744	8,117	7,848	25,835	21,527	7,630
MEAN	316	309	311	322	325	340	325	262	262	833	694	254
MAX	368	324	351	340	340	386	362	424	420	1,280	1,150	315
MIN	284	288	280	290	290	304	272	185	191	198	308	210
AC-FT	19,400	18,400	19,120	19,780	18,050	20,910	19,330	16,100	15,570	51,240	42,700	15,130
CAL YEAR 2002 TOTAL		188,001	MEAN	515	MAX	2,730	MIN	185	AC-FT	372,900		
WTR YEAR 2003 TOTAL		139,014	MEAN	381	MAX	1,280	MIN	185	AC-FT	275,700		

E indicates estimated discharge.

SOUTH PLATTE RIVER BASIN

LOGGEPOLE CREEK above Oliver Reservoir, 00219500 - 2003

LOCATION.--NE1/4NE1/4 Sec. 33-15-57 W., Kimball County, Lat 41° 13' 43", Long. 103° 48' 03", on the left bank approximately two miles southeast of Bushnell and 1.5 miles west of Oliver Reservoir.

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--Oct. 1931 - 1992, monthly discharges only for some periods, 1993 - present, May - September. Station moved to present site in 1994. Previously station was located two miles upstream on Highway 53c and referred to as "at Bushnell". Called "at Tomich Ranch" from 1994 - 1996.

REMARKS.--Published using the U. S. Geological Survey number 06762500 from 1992 to 2002. Published by U.S.G.S. up to Oct. 1, 1991 and restarted in 2003 at the Highway 53c site at Bushnell, station number 06762500.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								2.7	1.7	2.4	1.4	1.1
2								2.6	1.7	2.2	1.4	1.2
3								2.5	1.8	2.1	1.3	1.2
4								2.5	1.9	2.0	1.1	1.3
5								2.4	1.9	2.1	1.0	1.3
6								2.3	2.0	1.9	1.1	1.3
7								2.5	2.0	1.9	2.4	1.4
8								2.9	2.0	2.0	2.2	1.5
9								2.9	1.9	1.9	2.2	1.5
10								3.3	2.0	1.9	2.1	1.7
11								3.0	2.1	1.8	2.1	1.7
12								2.9	2.1	1.6	2.0	1.8
13								2.7	2.1	1.4	1.9	1.7
14								2.6	2.1	1.3	1.7	1.8
15								2.6	2.1	1.1	1.6	1.8
16								2.5	2.1	1.1	1.5	1.7
17								2.4	2.1	1.1	1.5	1.8
18								2.5	2.3	1.1	1.5	1.7
19								2.6	2.4	1.1	1.4	1.7E
20								2.5	2.4	1.2	1.2	1.7E
21								2.4	2.4	1.3	1.1	1.7E
22								2.4	2.2	1.4	.88	1.7E
23								2.4	2.2	1.5	.88	1.7E
24								2.4	2.3	1.6	.87	1.7E
25								2.4	2.3	1.5	.89	1.7E
26								2.4	2.2	1.4	.88	1.7E
27								2.4	2.2	1.3	.83	1.7E
28								2.4	2.2	1.5	.77	1.7E
29					-----			2.2	3.0	1.6	.78	1.7E
30					-----			2.1	2.7	5.9	.88	1.7E
31		-----			-----		-----	1.9	-----	1.6	1.1	-----
TOTAL								78.3	64.4	53.8	61.36	47.9
MEAN								2.53	2.15	1.74	1.98	1.60
MAX								3.3	3.0	5.9	1.1	1.8
MIN								1.9	1.7	1.1	.77	1.1
AC-FT								155	128	107	122	95

CAL YEAR 2002 MAX 12 MIN .17 AC-FT 353
 WTR YEAR 2003 MAX 11 MIN .77 AC-FT 606

E indicates estimated discharge.

SOUTH PLATTE RIVER BASIN

OLIVER RESERVOIR on Lodgepole Creek, 00407000 - 2003

LOCATION.--SE1/4SW1/4 Sec. 36-15-57 W. near Kimball

GAGE.--Staff gage

PERIOD OF RECORD.--1977 - present

STORAGE LEVEL	ELEVATION (Feet)	CONTENT (Acre-feet)
Top of flood pool	4810.0	4,690
Top of conservation pool	4804.0	2,680
Top of dead storage pool	4784.0	50

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,091											
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17							1,375					
18									1,430			
19												1,204
20												
21												
22												
23												
24												
25												
26												
27												
28												
29					-----					1,268	1,280	
30					-----							
31		-----			-----		-----		-----			-----

SOUTH PLATTE RIVER BASIN

LODGEPOLE CREEK below Oliver Reservoir, 00219000 - 2003

LOCATION.--SE1/4SW1/4 SEC. 36-15-57 W. near Kimball

GAGE.--Continuous stage recorder and 3 ft. rectangular weir notch in sheet pile cutoff wall

PERIOD OF RECORD.--Continuous record 1981 - 1992, 1993 - present, partial year record.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								.12	.06	.18	.06	0
2								.12	.06	.18	0	0
3								.12	.06	.18	0	0
4								.12	.10	.18	0	0
5								.18	.12	.18	0	0
6								.18	.12	.12	.12	0
7								.18	.11	.12	.12	0
8								.30	.06	.18	0	0
9								.24	.06	.12	0	0
10								.30	.12	.12	0	0
11								.24	.18	.06	0	0
12								.18	.18	.06	0	0
13								.12	.18	.06	0	0
14								.06	.11	.12	0	0
15								.06	.06	.12	0	0
16								.06	.06	.12	0	0
17								.06	.12	.06	0	0
18								.06	.12	0	0	0
19								.06	.12	0	0	0
20								.12	.06	0	0	0
21								.12	.06	0	0	0
22								.12	0	0	0	0
23								.18	.06	0	0	0
24								.17	.12	0	0	0
25								.12	.06	0	0	.12
26								.18	.06	0	0	.12
27								.18	.06	0	0	.12
28								.18	.14	.23	0	.12
29					-----			.18	.30	.06	0	.18
30					-----			.12	.18	.06	0	.18
31		-----			-----		-----	.11	-----	.06	0	-----
TOTAL								4.54	3.10	2.57	0.30	0.84
MEAN								.15	.10	.083	.010	.028
MAX								.30	.30	.23	.12	.18
MIN								.06	0	0	0	0
AC-FT								9.0	6.1	5.1	.6	1.7
CAL YEAR 2002	MAX	.36	MIN	0	AC-FT	18						
WTR YEAR 2003	MAX	.30	MIN	0	AC-FT	23						

SOUTH PLATTE RIVER BASIN

LOGEPOLE CREEK at Ralton, 06763500 - 2003

LOCATION.--NE1/4NW1/4 Sec. 12-12-45 W., Deuel County, Lat. 41° 02' 01", Long. 102° 24' 18", on right bank 2.1 miles upstream of the CO-NE State line on Nebraska Highway 23, 5.5 miles southeast of Chappell, NE on Nebraska Highway 23.

DRAINAGE AREA.--Approximately 3,307 square miles.

GAGE.--Continuous stage recorder. Datum of gage is 3,590 feet, from topographic map.

PERIOD OF RECORD.--March to September 1931, June 1951 to September 1979 (discontinued), October 2001 - present.

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1979.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 4,560 cubic feet per second August 15, 1968, gage height 6.49 feet from rating curve extended above 1,200 cubic feet per second on basis of slope-area measurement of peak flow; minimum daily discharge of no flow many years since 1931.

EXTREMES FOR CURRENT YEAR.--no flow in 2003.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0E	0E	0E	0	0	0	0	0	0	0	0
2	0	0E	0E	0E	0	0	0	0	0	0	0	0
3	0	0E	0E	0E	0	0	0	0	0	0	0	0
4	0	0E	0E	0E	0	0	0	0	0	0	0	0
5	0	0E	0E	0E	0	0	0	0	0	0	0	0
6	0	0E	0E	0E	0	0	0	0	0	0	0	0
7	0	0E	0E	0E	0	0	0	0	0	0	0	0
8	0	0E	0E	0E	0	0	0	0	0	0	0	0
9	0	0E	0E	0E	0	0	0	0	0	0	0	0
10	0	0E	0E	0E	0	0	0	0	0	0	0	0
11	0	0E	0E	0E	0	0	0	0	0	0	0	0
12	0	0E	0E	0E	0	0	0	0	0	0	0	0
13	0	0E	0E	0E	0	0	0	0	0	0	0	0
14	0	0E	0E	0E	0	0	0	0	0	0	0	0
15	0	0E	0E	0E	0	0	0	0	0	0	0	0
16	0E	0E	0E	0E	0	0	0	0	0	0	0	0
17	0E	0E	0E	0	0	0	0	0	0	0	0	0
18	0E	0E	0E	0	0	0	0	0	0	0	0	0
19	0E	0E	0E	0	0	0	0	0	0	0	0	0
20	0E	0E	0E	0	0	0	0	0	0	0	0	0
21	0E	0E	0E	0	0	0	0	0	0	0	0	0
22	0E	0E	0E	0	0	0	0	0	0	0	0	0
23	0E	0E	0E	0	0	0	0	0	0	0	0	0
24	0E	0E	0E	0	0	0	0	0	0	0	0	0
25	0E	0E	0E	0	0	0	0	0	0	0	0	0
26	0E	0E	0E	0	0	0	0	0	0	0	0	0
27	0E	0E	0E	0	0	0	0	0	0	0	0	0
28	0E	0E	0E	0	0	0	0	0	0	0	0	0
29	0E	0E	0E	0	-----	0	0	0	0	0	0	0
30	0E	0E	0E	0	-----	0	0	0	0	0	0	0
31	0E	-----	0E	0	-----	0	-----	0	-----	0	0	-----
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0
CAL YEAR 2002 TOTAL		26.50	MEAN	.073	MAX	.44	MIN	0	AC-FT	53		
WTR YEAR 2003 TOTAL		0.00	MEAN	0	MAX	0	MIN	0	AC-FT	0		

E indicates estimated discharge.

SOUTH PLATTE RIVER BASIN

WESTERN CANAL from South Platte River, 00147000 - 2003

LOCATION.--NE1/4NW1/4 Sec. 13-12-43 W. near Julesburg, CO

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	0					0	81	32	24	20	18
2	27	0					0	85	33	28	26	18
3	25	0					0	88	30	26	30	15
4	28	0					0	85	28	27	26	16
5	29	0					0	53	26	26	25	15
6	27	0					0	42	24	21	26	15
7	25	0					0	39	29	25	25	16
8	26	0					0	46	35	24	24	21
9	25	0					0	52	56	25	23	30
10	26	0					0	55	57	26	22	28
11	26	0					0	50	53	25	20	27
12	25	0					0	53	57	31	18	26
13	26	0					0	81	51	43	16	25
14	27	0					0	76	71	44	17	27
15	27	0					0	84	68	46	17	26
16	27	0					0	68	62	21	17	28
17	20	0				0	0	64	59	16	17	32
18	17	0				0	0	60	58	9.7	17	40
19	16	0				0	0	59	60	10	17	48
20	14					0	0	53	53	16	16	57
21	16					0	0	47	49	14	14	62
22	17					0	18	53	47	12	14	61
23	17					0	60	55	45	12	17	61
24	15					0	65	52	42	12	17	60
25	17					0	67	43	38	17	16	63
26	17					0	57	40	31	17	15	65
27	19					0	0	38	25	21	12	67
28	8.8					0	0	38	23	34	14	62
29	0				-----	0	0	36	28	30	15	57
30	0				-----	0	21	34	26	25	17	57
31	0	-----			-----	0	-----	32	-----	21	17	-----
TOTAL	610.8	0				0	288	1,742	1,296	728.7	587	1,143
MEAN	19.7	0				0	9.60	56.2	43.2	23.5	18.9	38.1
MAX	29	0				0	67	88	71	46	30	67
MIN	0	0				0	0	32	23	9.7	12	15
AC-FT	1,210	0				0	571	3,460	2,570	1,450	1,160	2,270
CAL YEAR 2002	MAX	120	MIN	0	AC-FT	10,330						
WTR YEAR 2003	MAX	88	MIN	0	AC-FT	12,690						

SOUTH PLATTE RIVER BASIN

SOUTH PLATTE RIVER at North Platte, 06765500 - 2003

LOCATION.--NE1/4NE1/4 Sec. 8-13-30 W., Lincoln County, Lat. 41° 07' 05", Long. 100° 46' 22", on left bank 0.5 mile upstream of bridge on U.S. Highway 83, 5.5 miles upstream from confluence with North Platte River.

DRAINAGE AREA.--Approximately 24,300 square miles.

GAGE.--Continuous stage recorder. Datum of gage is 2,787.73 feet above mean sea level of datum established by City of North Platte Engineer in 1928.

PERIOD OF RECORD.--May 1917 - present, periodic record June 1897 - September 1915. Monthly discharge only for some periods published by USGS in WSP 1310.

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 37,100 cubic feet per second observed June 3, 1935, gage height 14.02 feet. Minimum daily discharge 35 cubic feet per second January 4, 1949.

EXTREMES FOR CURRENT YEAR.--Peak discharge 319 cubic feet per second May 8, gage height 5.82 feet; maximum gage height 6.08 feet December 27 due to backwater from ice conditions; minimum daily discharge 53 cubic feet per second September 23.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	94	93	94	131	109	105	157	145	134	106	91
2	77	91	96	94	143	114	108	158	145	126	98	88
3	83	94	95	91	147	117	116	165	158	132	97	82
4	87	93	92	91	140E	116	121	183	157	125	96	84E
5	82	90	87	92	138	110E	107	167	147	118	93	86E
6	78	88	90	94	127	120E	106	146	136	113	91	88E
7	79	85	90	95	120E	128	105	157	147	112	87	90E
8	81	82	94	98	118E	128	122	180	146	101	87	94E
9	85	84	95	100	116	126E	129	184	134	93	93	109
10	83	88	96	100E	124	124E	132	179	132	96	119	118
11	84	87	96	98E	121	122E	130	178	136	104	109	108
12	82	84	96	100E	123	124E	128	170E	130	104	95	96
13	79	85	97	103	133	129	136	166	142	103	101	93
14	81	82	95	102	142	117	114	166	155	100	100	88
15	81	85	96	100E	144E	112	111	166	154	93	97	91
16	83	90	94	100E	146	112	125	163	153	91	92	92
17	85	90	91	102E	137	115	120	165	167	88	89	88
18	83	89	89	100E	134	121	118	158	170	89	92	65
19	85	87	86	102E	128	125	120	156	162	96	91	61
20	86	82	90	104	126	119	126	155	143	99	78	61
21	87	84	91	100	127	115	131	149	187	104	77	66
22	87	85	90E	96E	126	102	127	147	185	97	93	64
23	88	84	92E	98E	90E	116	146	147	161	90	94	53
24	87	81	92E	102E	110E	129	159	145	167	88	97	54
25	87	83	94E	102E	104E	130	152	135	145	85	82	59
26	86	84E	94E	100E	100E	128	138	138	137	84E	82	57
27	89	86E	94E	106E	102E	131	144	137	143	90E	79	59
28	88	86	92	110	106E	127	141	133	139	96E	80	63
29	91	84	95	112	-----	118	156	130	137	106E	93	65
30	95	87	95	118	-----	111	176	134	136	111	71	75
31	96	-----	97	124	-----	106	-----	135	-----	112	81	-----
TOTAL	2,618	2,594	2,884	3,128	3,503	3,701	3,849	4,849	4,496	3,180	2,840	2,388
MEAN	84.5	86.5	93.0	101	125	119	128	156	150	103	91.6	79.6
MAX	96	94	97	124	147	131	176	184	187	134	119	118
MIN	73	81	86	91	90	102	105	130	130	84	71	53
AC-FT	5,190	5,150	5,720	6,200	6,950	7,340	7,630	9,620	8,920	6,310	5,630	4,740
CAL YEAR 2002 TOTAL		52,010	MEAN	142	MAX	1,320	MIN	69	AC-FT	103,200		
WTR YEAR 2003 TOTAL		40,030	MEAN	110	MAX	187	MIN	53	AC-FT	79,400		

E indicates estimated discharge.

PLATTE RIVER BASIN

TRI-COUNTY CANAL from Platte River, 00142000 - 2003

LOCATION.--NW1/4 Sec. 28-13-29 W. near North Platte

GAGE.--Continuous stage recorder and 30 ft. modified Parshall flume

PERIOD OF RECORD.--1941 - present

REMARKS.--Values furnished by Central Nebraska Public Power and Irrigation District.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	640	642	618	618	707	771	746	874	941	1,206	2,257	1,443
2	694	619	622	629	642	652	755	823	981	1,502	2,267	1,255
3	755	618	623	646	621	655	800	844	975	2,038	2,253	985
4	690	623	624	621	664	639	844	1,017	1,039	2,268	2,273	787
5	690	766	631	621	639	639	818	973	889	2,248	2,281	424
6	647	881	611	623	657	712	918	927	756	2,255	2,273	445
7	715	885	598	621	619	677	821	780	808	2,266	2,274	623
8	778	755	621	623	630	646	854	815	681	2,274	2,273	626
9	884	772	606	621	660	622	859	781	751	2,229	2,283	624
10	670	862	622	627	680	638	888	843	667	2,220	2,269	625
11	660	615	623	627	669	622	916	757	743	2,271	2,270	625
12	655	451	621	646	636	655	892	799	692	2,274	2,266	623
13	640	621	620	655	618	649	825	757	780	2,270	2,273	621
14	681	624	623	640	633	691	870	741	746	2,267	2,264	624
15	642	621	620	626	640	673	826	699	809	2,268	2,265	624
16	641	622	621	609	622	648	929	733	747	2,270	2,258	625
17	682	624	618	621	623	642	861	731	805	2,282	2,258	521
18	659	623	618	648	622	692	850	726	850	2,284	2,254	388
19	639	621	619	716	673	674	819	757	806	2,284	2,265	305
20	623	623	620	661	673	644	908	694	976	2,274	2,163	304
21	641	623	629	623	658	699	843	710	937	2,255	2,110	301
22	620	668	620	636	629	704	824	933	1,113	2,261	2,060	303
23	623	639	619	623	605	620	909	1,128	896	2,269	2,032	303
24	620	622	622	625	578	671	1,001	1,126	797	2,266	1,989	301
25	619	621	622	639	624	628	957	1,081	758	2,269	1,969	302
26	623	630	630	629	630	618	926	922	740	2,260	1,961	299
27	620	666	630	707	629	617	799	884	728	2,265	1,909	300
28	646	623	670	658	643	652	852	950	717	2,261	1,792	302
29	624	619	626	658	-----	666	751	929	702	2,263	1,749	305
30	654	618	655	674	-----	639	894	968	893	2,248	1,725	304
31	658	-----	622	655	-----	650	-----	869	-----	2,254	1,607	-----
TOTAL	20,633	19,797	19,324	19,826	17,924	20,405	25,755	26,571	24,723	68,121	66,142	16,117
MEAN	666	660	623	640	640	658	859	857	824	2,197	2,134	537
MAX	884	885	670	716	707	771	1,001	1,128	1,113	2,284	2,283	1,443
MIN	619	451	598	609	578	617	746	694	667	1,206	1,607	299
AC-FT	40,926	39,267	38,329	39,325	35,552	40,473	51,085	52,704	49,038	135,118	131,193	31,968
CAL YEAR 2002	TOTAL	339,577	MEAN	930	MAX	2,310	MIN	439	AC-FT	673,500		
WTR YEAR 2003	TOTAL	345,338	MEAN	946	MAX	2,284	MIN	299	AC-FT	684,978		

PLATTE RIVER BASIN

JEFFREY RESERVOIR from Platte River, 00403700 - 2003

LOCATION.--NE1/4NE1/4 Sec. 4-11-27 W. near Brady

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1977 - present

REMARKS.--Values furnished by Central Nebraska Public Power and Irrigation District.

STORAGE LEVEL	ELEVATION (feet)	CONTENT (acre-feet)
Normal maximum operating level	2759.0	6,349
Normal minimum operating level	2745.0	5,113

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,154	3,202	5,622	5,182	5,622	5,677	5,512	5,897	5,677	5,127	5,787	4,912
2	2,787	2,877	5,567	5,017	5,347	5,512	5,567	5,732	5,677	5,292	5,842	5,457
3	2,562	3,012	5,622	5,017	5,512	5,512	5,677	5,402	5,677	5,787	5,787	5,347
4	2,607	3,107	5,622	5,017	5,622	5,347	5,732	5,182	5,512	6,007	5,787	4,812
5	2,967	4,162	5,457	4,962	5,457	5,017	5,622	5,017	5,677	6,062	5,677	4,462
6	2,652	5,072	5,622	4,912	5,292	4,912	5,732	3,724	5,842	6,007	5,732	4,012
7	2,472	5,732	5,732	4,862	5,182	4,862	5,622	4,062	5,842	5,897	5,732	3,819
8	3,202	5,512	5,622	4,962	5,072	4,862	5,567	4,212	5,677	5,842	5,732	3,772
9	4,612	5,567	5,622	5,127	5,182	4,812	5,567	4,362	5,567	5,732	5,732	3,867
10	4,862	5,127	5,512	5,017	5,182	4,862	5,512	4,662	5,622	5,622	5,732	3,962
11	3,677	5,677	5,622	4,862	5,127	4,862	5,127	4,612	5,567	5,622	5,732	3,914
12	2,967	5,677	5,732	5,017	5,072	4,912	5,457	4,562	5,732	5,677	5,732	3,772
13	3,202	5,017	5,347	4,812	5,127	4,962	4,862	4,662	5,842	5,732	5,677	3,582
14	3,059	5,677	5,732	4,962	5,292	5,017	4,912	5,017	5,897	5,787	5,732	3,249
15	3,059	5,567	5,567	4,962	5,347	5,017	5,127	5,622	5,897	5,787	5,677	3,629
16	3,059	5,732	5,622	4,762	5,292	4,962	5,677	5,732	5,897	5,787	5,677	3,724
17	2,922	5,732	5,622	4,762	5,347	4,712	5,347	5,512	5,787	5,787	5,622	3,677
18	2,967	5,842	5,622	5,182	5,237	4,412	5,017	5,402	5,787	5,787	5,622	3,772
19	2,832	5,677	5,622	5,402	5,292	4,712	5,072	5,622	5,787	5,787	5,622	4,512
20	3,059	5,897	5,567	5,567	5,292	5,072	4,712	5,512	5,622	5,732	5,787	5,017
21	3,012	5,677	5,457	5,567	5,732	5,402	5,237	5,237	5,567	5,732	5,897	4,812
22	3,012	5,732	5,347	5,237	5,732	5,347	6,349	5,512	5,897	5,732	5,787	4,712
23	2,922	5,677	5,237	5,072	5,182	5,182	5,347	5,622	6,062	5,622	5,787	5,182
24	2,652	5,842	5,182	5,237	5,182	5,237	5,237	5,677	5,952	5,677	5,897	5,512
25	3,107	5,677	5,457	5,512	5,072	5,402	5,402	5,347	5,732	5,677	5,567	5,622
26	2,697	5,897	5,347	5,072	5,072	5,237	5,127	5,622	5,182	5,787	5,127	5,732
27	2,922	5,787	5,182	5,622	5,127	5,237	4,562	5,512	5,347	5,787	4,512	5,787
28	2,877	5,677	5,292	5,897	5,237	5,292	5,622	5,292	5,292	5,732	4,712	5,787
29	3,059	5,677	5,402	5,677	-----	5,292	5,182	5,347	5,402	5,732	4,412	5,787
30	3,012	5,567	5,622	5,622	-----	5,182	5,842	5,622	5,072	5,732	4,062	5,897
31	3,107	-----	5,457	5,567	-----	5,402	-----	5,567	-----	5,732	4,212	-----
MAX	4,862	5,897	5,732	5,897	5,732	5,677	6,349	5,897	6,062	6,062	5,897	5,897
MIN	2,472	2,877	5,182	4,762	5,072	4,412	4,562	3,724	5,072	5,127	4,062	3,249
CHANGE	0	2,460	-110	110	-330	165	440	-275	-495	660	-1,520	1,685
CAL YEAR 2002			MEAN	5,190	MAX	6,292	MIN	2,292				
WTR YEAR 2003			MEAN	5,120	MAX	6,349	MIN	2,472				

PLATTE RIVER BASIN

JEFFREY POWER RETURN to Platte River, 00143000 - 2003

LOCATION.--NE1/4SE1/4 Sec. 36-12-27 W. near Brady

GAGE.--Continuous stage recorder and 20 ft. Parshall flume

PERIOD OF RECORD.--1941 - present

REMARKS.--Values furnished by Central Nebraska Public Power and Irrigation District.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	223	498	343	189
2	0	0	0	0	0	0	0	0	228	584	331	249
3	0	0	0	0	0	0	0	0	225	637	392	255
4	0	0	0	0	0	0	0	0	226	707	479	255
5	0	0	0	0	0	0	0	0	222	638	560	254
6	0	0	0	0	0	0	0	0	226	667	627	249
7	0	0	0	0	0	0	0	0	225	796	623	249
8	0	0	0	0	0	0	0	0	225	754	651	227
9	0	0	0	0	0	0	0	0	226	834	643	68.0
10	0	0	0	0	0	0	0	0	223	862	525	0
11	0	0	0	0	0	0	0	0	256	875	351	0
12	0	0	0	0	0	0	0	0	291	802	550	0
13	0	0	0	0	0	0	0	0	304	743	579	0
14	0	0	0	0	0	0	0	0	293	643	543	0
15	0	0	0	0	0	0	0	0	294	687	595	0
16	0	0	0	0	0	0	0	0	300	689	641	0
17	0	0	0	0	0	0	0	0	301	661	773	0
18	0	0	0	0	0	0	0	0	296	628	839	0
19	0	0	0	0	0	0	0	12.0	292	567	880	0
20	0	0	0	0	0	0	0	25.0	299	535	879	0
21	0	0	0	0	0	0	0	24.0	300	472	897	0
22	0	0	0	0	0	0	0	56.0	301	483	908	0
23	0	0	0	0	0	0	0	151	328	564	914	0
24	0	0	0	0	0	0	0	165	339	688	922	0
25	0	0	0	0	0	0	0	105	147	726	929	0
26	0	0	0	0	0	0	0	137	219	789	921	0
27	0	0	0	0	0	0	0	174	300	757	605	0
28	0	0	0	0	0	0	0	208	303	413	447	0
29	0	0	0	0	-----	0	0	226	301	377	405	0
30	0	0	0	0	-----	0	0	225	388	367	205	0
31	0	-----	0	0	-----	0	-----	226	-----	355	162	-----
TOTAL	0	0	0	0	0	0	0	1,734.0	8,101	19,798	19,119	1,995.0
MEAN	0	0	0	0	0	0	0	55.9	270	639	617	66.5
MAX	0	0	0	0	0	0	0	226	388	875	929	255
MIN	0	0	0	0	0	0	0	0	147	355	162	0
AC-FT	0	0	0	0	0	0	0	3,439	16,068	39,269	37,923	3,957
CAL YEAR 2002	TOTAL	25,743.0	MEAN	70.5	MAX	974	MIN	0	AC-FT	51,060		
WTR YEAR 2003	TOTAL	50,747.0	MEAN	139	MAX	929	MIN	0	AC-FT	100,657		

PLATTE RIVER BASIN

ELWOOD RESERVOIR from Platte River, 00403300 - 2003

LOCATION.--NW1/4NW1/4 Sec. 33-8-22 W. near Elwood

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1978 - present

REMARKS.--Values furnished by Central Nebraska Public Power and Irrigation District.

Published storage values before 1984 were for storage above the minimum operating level. Add 13,085 acre-feet to values listed in pre-1984 reports before comparing to values in this report.

STORAGE LEVEL	ELEVATION (feet)	CONTENT (acre-feet)
Top of flood pool	2613.0	45,037
Top of conservation pool	2607.0	37,800
Minimum normal operating level	2576.3	12,100
Top of dead storage pool	2568.8	8,295

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16,883	15,796	14,751	13,749	12,792	14,182	17,800	28,985	37,123	35,896	25,919	19,643
2	16,883	15,729	14,688	13,687	12,792	14,182	18,161	29,369	37,123	35,785	25,649	19,493
3	16,883	15,729	14,624	13,687	12,792	14,120	18,598	29,761	37,123	35,347	25,385	19,417
4	16,815	15,662	14,624	13,627	12,733	14,120	19,041	30,055	37,123	35,021	25,297	19,341
5	16,746	15,662	14,624	13,627	12,733	14,182	19,417	30,349	37,123	34,913	25,032	19,341
6	16,746	15,595	14,560	13,567	12,733	14,244	19,947	30,649	37,123	34,805	24,768	19,266
7	16,677	15,530	14,497	13,506	12,675	14,433	20,256	30,950	37,235	34,696	24,509	19,191
8	16,677	15,464	14,497	13,506	12,616	14,560	20,642	31,250	37,235	34,587	24,337	19,115
9	16,609	15,464	14,433	13,506	12,616	14,751	21,037	31,554	37,235	34,373	24,165	19,041
10	16,540	15,464	14,433	13,446	12,558	14,878	21,431	31,861	37,123	34,160	24,078	19,041
11	16,540	15,399	14,370	13,446	12,558	15,007	21,754	32,168	37,235	33,734	23,992	19,041
12	16,471	15,399	14,370	13,386	12,616	15,138	22,157	32,168	37,235	33,206	23,992	18,967
13	16,402	15,334	14,306	13,386	12,733	15,334	22,568	32,685	37,235	32,685	23,906	18,967
14	16,402	15,334	14,306	13,326	12,909	15,464	22,981	32,998	37,235	32,065	23,822	18,894
15	16,334	15,269	14,244	13,266	13,085	15,595	23,400	33,206	37,235	31,554	23,653	18,820
16	16,265	15,269	14,244	13,266	13,266	15,729	23,906	33,521	37,235	30,950	23,569	18,746
17	16,265	15,203	14,182	13,266	13,386	15,997	24,251	33,734	37,235	30,349	23,316	18,746
18	16,198	15,203	14,182	13,205	13,506	16,198	24,596	34,053	37,235	29,761	23,063	18,672
19	16,198	15,138	14,120	13,205	13,687	16,334	24,944	34,266	37,010	29,467	22,981	18,598
20	16,131	15,138	14,120	13,145	13,873	16,402	25,297	34,587	37,010	29,081	22,733	18,525
21	16,064	15,073	14,058	13,145	13,997	16,540	25,649	34,805	36,784	28,889	22,403	18,451
22	16,064	15,007	14,058	13,145	14,120	16,677	26,009	35,021	36,784	28,601	22,238	18,451
23	16,064	15,007	13,997	13,085	14,306	16,815	26,369	35,347	36,784	28,315	21,915	18,451
24	15,997	14,942	13,997	13,026	14,370	16,883	26,733	35,675	36,671	28,127	21,673	18,377
25	15,997	14,942	13,935	13,026	14,370	17,022	27,101	35,896	36,560	27,751	21,431	18,305
26	15,930	14,878	13,935	12,968	14,306	17,093	27,377	36,117	36,450	27,469	21,194	18,233
27	15,930	14,878	13,873	12,968	14,244	17,234	27,751	36,339	36,339	27,193	20,879	18,233
28	15,863	14,815	13,873	12,909	14,244	17,374	28,033	36,560	36,339	26,917	20,642	18,161
29	15,863	14,815	13,811	12,909	-----	17,445	28,409	36,784	36,117	26,733	20,410	18,089
30	15,863	14,751	13,811	12,851	-----	17,586	28,793	36,897	36,117	26,459	20,179	18,089
31	15,796	-----	13,749	12,792	-----	17,656	-----	37,010	-----	26,189	19,947	-----
MAX	16,883	15,796	14,751	13,749	14,370	17,656	28,793	37,010	37,235	35,896	25,919	19,643
MIN	15,796	14,751	13,749	12,792	12,558	14,120	17,800	28,985	36,117	26,189	19,947	18,089
CHANGE	-1,156	-1,045	-1,002	-957	1,452	3,412	11,137	8,217	-893	-9,928	-6,242	-1,858
CAL YEAR 2002			MEAN	21,368	MAX	38,145	MIN	12,909				
WTR YEAR 2003			MEAN	21,293	MAX	37,235	MIN	12,558				

PLATTE RIVER BASIN

JOHNSON RESERVOIR from Platte River, 00403800 - 2003

LOCATION.--SW1/4NE1/4 Sec. 4-8-22 W. near Lexington

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1977 - present

REMARKS.--Values furnished by Central Nebraska Public Power and Irrigation District.

STORAGE LEVEL	ELEVATION (feet)	CONTENT (acre-feet)
Operating level	2620.0	46,935
Minimum operating level	2590.9	0

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35,475	38,410	40,995	37,470	40,055	36,355	39,350	40,525	42,185	42,185	41,230	29,985
2	35,255	39,115	40,760	37,235	39,820	36,355	38,880	40,525	42,185	41,465	40,995	29,385
3	35,035	40,055	40,525	38,175	40,995	36,355	38,880	40,995	42,435	40,760	41,465	29,585
4	34,155	40,525	40,055	38,175	41,935	35,695	39,585	40,760	43,435	41,465	41,700	28,785
5	34,375	40,760	40,290	37,705	42,435	35,695	39,585	41,935	43,935	41,935	41,935	28,025
6	33,935	40,760	40,760	37,470	43,685	35,475	40,760	42,185	43,435	42,935	41,935	27,835
7	33,275	40,525	41,465	37,235	42,685	35,475	40,760	42,685	44,435	42,435	40,995	27,835
8	33,055	40,525	41,230	38,175	42,935	35,475	41,700	41,935	43,685	42,185	40,760	27,835
9	31,605	41,465	40,995	37,705	42,185	33,715	41,700	41,935	43,435	41,700	40,760	27,835
10	29,785	41,700	40,290	38,175	42,685	35,695	42,685	41,465	43,435	41,230	40,995	27,645
11	28,785	41,935	40,290	38,175	42,435	33,715	43,185	42,185	43,185	40,760	42,185	26,145
12	27,455	42,185	40,290	38,880	40,760	35,695	43,185	41,700	43,435	40,055	41,935	26,515
13	26,145	43,435	39,585	37,940	40,290	35,695	42,935	41,935	42,935	39,820	41,465	27,075
14	24,860	41,935	39,585	38,410	40,055	35,475	43,185	40,995	42,935	40,290	41,935	27,265
15	25,590	40,995	39,115	38,880	39,350	35,475	42,435	40,290	42,435	40,290	41,935	27,455
16	25,590	40,055	38,880	39,585	38,410	35,475	42,185	40,055	42,435	40,290	41,700	27,645
17	26,885	38,880	38,880	38,645	39,115	36,135	41,230	39,350	42,685	40,525	40,525	27,835
18	27,645	38,645	38,645	38,645	39,115	37,940	41,465	39,350	42,935	40,525	40,290	27,645
19	28,785	37,940	38,410	38,175	39,350	38,645	40,760	40,290	43,185	40,760	39,820	27,835
20	29,785	39,115	37,940	37,940	39,115	39,115	41,700	39,585	43,185	41,230	38,645	28,025
21	30,585	39,115	38,410	38,880	38,880	38,880	40,760	39,585	43,935	41,230	37,235	28,405
22	31,195	40,055	37,705	38,410	38,410	39,115	40,760	40,290	43,685	42,435	35,915	28,215
23	31,810	39,585	37,940	38,880	38,645	39,115	40,760	40,290	43,435	41,935	34,375	28,215
24	32,425	40,525	38,175	38,645	38,645	38,880	40,525	41,465	44,435	41,465	32,630	28,215
25	33,055	40,760	39,115	38,410	37,470	38,645	39,350	42,185	44,435	40,760	31,400	28,215
26	33,715	41,230	39,115	38,175	36,135	39,115	40,995	42,435	43,935	40,055	29,985	28,785
27	34,595	41,465	39,350	38,175	36,135	39,820	41,700	42,685	43,935	39,350	29,585	29,385
28	35,035	41,700	38,645	38,645	36,575	39,350	40,760	42,685	43,685	39,350	29,185	29,585
29	35,695	41,465	37,940	38,410	-----	39,115	40,760	42,185	42,935	40,055	28,785	29,385
30	36,355	41,230	37,705	38,645	-----	39,350	40,760	41,935	42,435	40,290	29,785	29,385
31	37,235	-----	37,470	39,350	-----	39,115	-----	41,935	-----	40,760	30,185	-----
MAX	37,235	43,435	41,465	39,585	43,685	39,820	43,185	42,685	44,435	42,935	42,185	29,985
MIN	24,860	37,940	37,470	37,235	36,135	33,715	38,880	39,350	42,185	39,350	28,785	26,145
CHANGE	1,100	3,995	-3,760	1,880	-2,775	2,540	1,645	1,175	500	-1,675	-10,575	-800

CAL YEAR 2002		MEAN	37,128	MAX	43,435	MIN	24,860
WTR YEAR 2003		MEAN	38,276	MAX	44,435	MIN	24,860

PLATTE RIVER BASIN

PHELPS COUNTY CANAL from Platte River via Tri-County Canal, 00122000 - 2003

LOCATION.--NE1/4NE1/4 Sec. 11-8-21 W. near Overton

GAGE.--Continuous stage recorder and 30 ft. Parshall flume

PERIOD OF RECORD.--1947 - 1949, 1970 - present

REMARKS.--Values furnished by Central Nebraska Public Power and Irrigation District.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	70.0	72.0	184	355	895	683
2	0	0	0	0	0	0	136	76.0	201	410	864	678
3	0	0	0	0	0	0	84.0	80.0	165	429	815	664
4	0	0	0	0	0	0	41.0	81.0	172	565	836	571
5	0	0	0	0	0	0	63.0	93.0	197	621	847	210
6	0	0	0	0	0	0	16.0	146	102	663	908	0
7	0	0	0	0	0	0	16.0	166	134	606	869	0
8	0	0	0	0	0	0	47.0	156	146	734	982	0
9	0	0	0	0	0	0	84.0	166	189	793	906	0
10	0	0	0	0	0	0	93.0	165	154	806	890	0
11	0	0	0	0	0	0	98.0	161	144	840	870	0
12	0	0	0	0	0	0	136	157	142	810	849	0
13	0	0	0	0	0	0	125	160	130	800	854	0
14	0	0	0	0	0	0	78.0	233	145	776	841	0
15	0	0	0	0	0	0	65.0	198	151	791	841	0
16	0	0	0	0	0	0	63.0	206	177	830	793	0
17	0	0	0	0	0	0	67.0	206	178	849	818	0
18	0	0	0	0	0	0	52.0	223	161	875	827	0
19	0	0	0	0	0	0	69.0	182	206	881	815	0
20	0	0	0	0	0	0	75.0	227	148	841	923	0
21	0	0	0	0	0	0	67.0	227	199	799	912	0
22	0	0	0	0	0	0	75.0	213	169	831	902	0
23	0	0	0	0	0	0	66.0	232	202	889	898	0
24	0	0	0	0	0	0	44.0	269	210	934	864	0
25	0	0	0	0	0	0	47.0	163	140	894	881	0
26	0	0	0	0	0	0	67.0	213	201	900	926	0
27	0	0	0	0	0	0	57.0	191	200	872	922	0
28	0	0	0	0	0	0	87.0	239	214	841	899	0
29	0	0	0	0	-----	0	85.0	203	208	913	841	0
30	0	0	0	0	-----	0	75.0	205	243	897	768	0
31	0	-----	0	0	-----	56.0	-----	190	-----	856	712	-----
TOTAL	0	0	0	0	0	56.0	2,148.0	5,499.0	5,212	23,901	26,768	2,806
MEAN	0	0	0	0	0	1.8	71.6	177	174	771	863	93.5
MAX	0	0	0	0	0	56.0	136	269	243	934	982	683
MIN	0	0	0	0	0	0	16.0	72.0	102	355	712	0
AC-FT	0	0	0	0	0	111	4,261	10,907	10,338	47,408	53,094	5,566
CAL YEAR 2002	MAX	995	MIN	0	AC-FT	137,460						
WTR YEAR 2003	MAX	982	MIN	0	AC-FT	131,685						

PLATTE RIVER BASIN

JOHNSON POWER RETURN to Platte River, 00144000 - 2003

LOCATION.--SE1/4NW1/4 Sec. 2-8-21 W. near Overton

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1941 - present

REMARKS.--Values furnished by Central Nebraska Public Power and Irrigation District.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	730	0	425	413	274	275	75.0	426	0	0	0	0
2	630	0	425	513	720	431	51.0	447	0	0	0	0
3	715	0	397	605	0	389	93.0	478	0	0	0	0
4	498	0	417	323	0	507	0	320	0	0	0	0
5	437	0	503	440	0	499	231	254	0	0	0	247
6	347	0	120	469	336	593	140	198	0	0	0	16.0
7	599	0	0	425	813	488	151	227	0	0	0	0
8	655	0	416	187	482	311	127	198	0	0	0	0
9	961	0	562	431	530	353	96.0	194	0	0	0	499
10	1,007	0	386	90.0	524	337	86.0	255	0	0	0	0
11	1,289	0	518	309	478	334	79.0	189	0	0	0	490
12	1,109	9.0	443	61.0	655	344	190	124	0	0	0	0
13	1,076	487	602	490	562	361	189	184	0	0	0	0
14	294	1,165	649	359	523	362	404	286	0	0	0	0
15	0	805	495	359	646	469	646	125	0	0	0	0
16	0	628	482	392	728	353	473	82.0	0	0	0	0
17	0	429	509	410	319	0	580	83.0	0	0	0	0
18	0	602	492	416	198	0	622	91.0	0	0	0	0
19	0	419	455	409	358	0	572	28.0	0	0	0	384
20	0	0	570	360	224	0	338	0	0	0	0	116
21	0	449	500	381	445	211	307	0	0	0	0	79.0
22	0	426	497	341	509	466	360	0	0	0	0	115
23	0	103	412	354	279	365	366	0	0	0	0	0
24	0	0	236	354	787	163	372	0	160	0	0	0
25	0	458	0	359	977	305	316	0	444	0	0	0
26	0	0	0	409	980	291	411	0	662	0	0	0
27	0	125	441	423	619	293	316	0	0	0	0	0
28	0	213	779	355	142	276	283	0	0	0	0	0
29	0	458	698	342	-----	322	268	0	0	0	0	0
30	0	548	564	347	-----	482	327	0	0	0	0	0
31	0	-----	477	388	-----	340	-----	0	-----	0	0	-----
TOTAL	10,347	7,324.0	13,470	11,514.0	13,108	9,920	8,469.0	4,189.0	1,266	0	0	1,946.0
MEAN	334	244	435	371	468	320	282	135	42.2	0	0	64.9
MAX	1,289	1,165	779	605	980	593	646	478	662	0	0	499
MIN	0	0	0	61.0	0	0	0	0	0	0	0	0
AC-FT	20,523	14,527	26,718	22,838	26,000	19,676	16,798	8,309	2,511	0	0	3,860
CAL YEAR 2002	TOTAL	139,415.0	MEAN	382	MAX	1,310	MIN	0	AC-FT	276,520		
WTR YEAR 2003	TOTAL	81,553.0	MEAN	223	MAX	1,289	MIN	0	AC-FT	161,760		

PLATTE RIVER BASIN

PLATTE RIVER near Maxwell, 00228500 - 2003

LOCATION.--SW1/4SW1/4 Sec. 28-13-28 W. at Maxwell, Lincoln County, Lat. 41° 03' 42", Long. 101° 31' 30", on right bank 20 feet upstream of the Nebraska Highway 330 bridge over the Platte River 1 mile south of Maxwell, Nebraska.

DRAINAGE AREA.--Not determined.

GAGE.--Continuous stage recorder. Elevation of gage approximately 2,695 feet from topographic map.

PERIOD OF RECORD.--2000 - present

REMARKS.--Records are good, except estimated records are poor. Operation of gage started in May, 1999. This station replaces the the Platte River below the Tri-County Diversion Dam gage operated through water year 1999.

EXTREMES FOR CURRENT YEAR.--Peak discharge 900 cubic feet per second July 28, gage height 5.72 feet, maximum gage height 7.26 feet March 5 due to backwater from ice; minimum daily discharge 27 cubic feet per second August 26.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	47	35	38	66	56E	56	112	44	39	722	30
2	39	46	33	41	67	58	53	105	47	37	715	29
3	40	47	33	45	40E	57	50	100	51	40	662	28
4	39	46	33	40	38E	54E	51	128	47	82	595	27
5	36	46	40	40	36E	52E	50	139	49	205	520	28
6	36	45	38E	41	34E	50E	60	135	47	104	438	27
7	34	45	42	40	32E	52	58	110	54	64	448	28
8	35	44	41	40	34E	56	62	98	52	89	392	29
9	43	45	43	41	38E	58E	72	88	49	90	430	32
10	39	44	43	35E	42E	60E	74	101	45	54	556	31
11	38	43	40E	30E	48E	61	70	98	45	125	682	31
12	38	43	39	32E	56	64	67	97	60	245	457	30
13	37	43	40E	33E	55	62	68	94	72	481	459	29
14	37	44	41	34E	58	64	70	74	74	611	462	30
15	37	44	40	30E	58E	61	70	64	64	599	387	32
16	44	43	39	30E	60	52	93	63	54	621	356	32
17	40	43	39	32E	61	54	77	58	53	655	237	32
18	38	43	39	34E	57	74	68	55	72	661	142	31
19	37	44	40	36E	56	87	67	52	72	708	113	31
20	37	43	40	38E	57	89	67	49	72	748	54	31
21	37	42	35E	40E	56	83	64	48	58	764	33	32
22	39	41	32E	38E	54	79	54	49	57	745	30	33
23	42	40	34E	42E	40E	69	71	48	52	579	30	31
24	40	40	36E	44E	30E	64	107	58	61	517	29	30
25	39	41	38E	46E	34E	59	126	52	77	453	29	29
26	40	38E	39E	50E	42E	57	120	53	71	372	30	30
27	46	35E	36E	52E	44E	57	102	51	63	439	29	29
28	44	36E	39E	56E	50E	54	83	48	49	773	30	30
29	45	37	40E	58E	-----	54	77	46	43	674	29	31
30	54	36	42	62E	-----	52	107	44	41	724	28	39
31	47	-----	43	68	-----	56	-----	43	-----	703	29	-----
TOTAL	1,234	1,274	1,192	1,286	1,343	1,905	2,214	2,360	1,695	13,001	9,153	912
MEAN	39.8	42.5	38.5	41.5	48.0	61.5	73.8	76.1	56.5	419	295	30.4
MAX	54	47	43	68	67	89	126	139	77	773	722	39
MIN	34	35	32	30	30	50	50	43	41	37	28	27
AC-FT	2,450	2,530	2,360	2,550	2,660	3,780	4,390	4,680	3,360	25,790	18,150	1,810
CAL YEAR 2002 TOTAL		95,729	MEAN	262	MAX	3,690	MIN	28	AC-FT	189,900		
WTR YEAR 2003 TOTAL		37,569	MEAN	103	MAX	773	MIN	27	AC-FT	74,520		

E indicates estimated discharge.

PLATTE RIVER BASIN

PLATTE RIVER at Brady, 06766000 - 2003

LOCATION.--North channel gage (no. 1): SW1/4SW1/4 Sec. 11-12-27 W., Lat. 41° 01' 10", Long. 100° 22' 16", on left bank 15 feet downstream from bridge, and 0.5 mile south of Brady; South channel gage (no. 4): SW1/4SW1/4 Sec. 23-12-27 W., on left bank 15 feet downstream from bridge, and 2.5 miles south of Brady.

DRAINAGE AREA.--Approximately 56,200 square miles.

GAGE.--Continuous stage recorders on north channel (no. 1) and south channel (no. 4). Channel no. 1 gage datum is 2,638.19 feet above sea level and channel no. 4 gage datum is 2,640.66 feet above sea level.

PERIOD OF RECORD.--Irrigation season 1932, 1937 - 1938, Apr. 1939 - present (Monthly discharges only for some periods)

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 23,500 cubic feet per second June 29, 1983; no flow August 22-24, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharge 862 cubic feet per second July 28, combined channel flow; minimum daily discharge 14 cubic feet per second on September 6, combined channel flow.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	76	79E	79E	103E	112E	99	263	95	79	696	22
2	44	79	86	72E	96E	110E	97	225	101	74	704	20
3	55	81	83	77E	86E	113E	95	210	107	66	658	18
4	61	80	77	78	83E	89E	95	228	104	60	599	17
5	51	81	79	70	86E	75E	91	245	101	121	517	16
6	49	79	75E	72	80E	117	99	216	100	152	439	14
7	48	77	78E	71	63E	112	116	191	107	95	448	15
8	47	77	75E	75	77E	101	112	208	115	100	407	15
9	51	79	74E	70	88E	85E	125	230	105	107	440	21
10	56	78	75E	52E	91E	91E	134	222	94	83	553	21
11	53	75	76E	59E	94E	105	128	208	90	87	685	21
12	53	76	79E	68E	96E	104	119	190	105	147	510	20
13	51	77	71E	78E	102	102	109	172	106	247	447	19
14	52	79	75E	75E	102	106	106	154	113	431	459	20
15	50	76	81	65E	96	105	106	144	105	465	400	19
16	57	74	82	58E	99	105	126	137	95	479	366	19
17	56	76	78	79E	103	110	126	127	90	512	260	18
18	56	78	73E	80E	104	136	129	120	93	548	170	18
19	55	75	68E	88E	99	148	131	116	102	598	126	19
20	56	79	58E	90E	102	148	129	109	104	628	97	19
21	55	80	59E	80E	100	140	123	105	101	676	55	18
22	57	79	61E	72E	95	133	117	105	93	660	43	21
23	65	79	64E	71E	66E	125	147	105	88	568	37	21
24	68	77	69E	78E	70E	117	211	133	94	423	30	19
25	67	71E	85E	83E	80E	109	246	122	190	402	26	17
26	67	65E	82E	86E	91E	107	227	113	157	319	24	18
27	81	68E	80E	89E	98E	105	195	108	125	322	21	18
28	81	76E	83E	98E	107E	102	163	106	103	647	23	19
29	77	78E	83E	101E	-----	96	146	109	90	699	21	20
30	85	78E	85E	108E	-----	96	245	107	83	701	19	28
31	79	-----	81E	115E	-----	98	-----	99	-----	689	20	-----
TOTAL	1,818	2,303	2,354	2,437	2,557	3,402	4,092	4,927	3,156	11,185	9,300	570
MEAN	58.6	76.8	75.9	78.6	91.3	110	136	159	105	361	300	19.0
MAX	85	81	86	115	107	148	246	263	190	701	704	28
MIN	35	65	58	52	63	75	91	99	83	60	19	14
AC-FT	3,610	4,570	4,670	4,830	5,070	6,750	8,120	9,770	6,260	22,190	18,450	1,130
CAL YEAR 2002 TOTAL		99,888	MEAN	274	MAX	3,730	MIN	29	AC-FT	198,100		
WTR YEAR 2003 TOTAL		48,101	MEAN	132	MAX	704	MIN	14	AC-FT	95,410		

E indicates estimated discharge.

P L A T T E R I V E R B A S I N

THIRTY MILE CANAL from Platte River, 00141000 - 2003

LOCATION.--NW1/4NW1/4 Sec. 30-12-26 W. near Brady

GAGE.--Continuous stage recorder and 20 ft. Parshall flume

PERIOD OF RECORD.--1928 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	86	111	156	0
2								0	87	125	153	0
3								0	87	130	151	0
4								0	88	130	152	0
5								0	90	129	151	0
6								0	91	138	158	0
7								0	91	151	161	0
8								0	93	151	162	0
9								0	95	151	161	0
10								0	97	152	156	0
11								0	98	154	154	0
12								0	98	146	157	0
13								0	98	142	155	0
14								0	98	142	154	0
15								0	98	148	155	0
16								0	98	151	156	0
17								0	98	151	159	0
18								0	98	151	161	0
19								0	98	152	160	0
20								0	98	153	161	0
21								0	97	155	161	0
22								0	97	154	162	0
23							0	0	98	157	163	0
24							0	0	103	165	163	0
25							0	0	97	166	163	0
26							0	43	101	162	160	0
27							0	99	98	161	156	0
28							0	96	98	163	153	0
29					-----		0	84	97	162	154	0
30					-----		0	84	99	161	58	0
31		-----			-----		-----	83	-----	157	0	-----
TOTAL							0	489	2,870	4,621	4,626	0
MEAN							0	15.8	95.7	149	149	0
MAX							0	99	103	166	163	0
MIN							0	0	86	111	0	0
AC-FT							0	970	5,690	9,170	9,180	0
CAL YEAR 2002	MAX	301	MIN	0	AC-FT	34,800						
WTR YEAR 2003	MAX	166	MIN	0	AC-FT	25,000						

PLATTE RIVER BASIN

GOTHENBURG CANAL from Platte River, 00057000 - 2003

LOCATION.--NW1/4SW1/4 Sec. 28-12-26 W. near Brady

GAGE.--Continuous stage recorder and 20 ft. Parshall flume

PERIOD OF RECORD.--1916, 1918 - 1919, 1921 - 1943, 1945 - present

REMARKS.--Published as Gothenburg Canal from Platte River for Power and Irrigation up to 1974.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								87	123	180	314	0
2								86	124	195	319	0
3								88	125	223	319	0
4								88	125	247	319	0
5								86	126	246	319	0
6								87	126	264	320	0
7								86	128	308	320	0
8								88	128	328	319	0
9							0	87	128	327	324	0
10							0	87	129	325	321	0
11							0	86	133	327	317	0
12							0	88	133	326	320	0
13							0	97	134	330	320	0
14							0	97	133	330	320	0
15							0	96	134	325	320	0
16							0	96	135	323	321	0
17							0	96	134	320	320	0
18							0	97	134	323	321	0
19							0	106	133	320	320	0
20							0	121	131	320	321	0
21								5.7	120	129	318	320
22							109	122	129	318	320	0
23							90	122	129	318	321	0
24							92	126	134	320	324	0
25							91	125	123	323	323	0
26							91	125	131	322	324	0
27							91	126	129	321	187	0
28							90	125	128	316	11	0
29					-----		118	126	127	313	3.2	0
30					-----		88	125	157	315	0	0
31		-----			-----		-----	123	-----	312	0	-----
TOTAL							865.7	3,215	3,912	9,383	8,527.2	0
MEAN							39.4	104	130	303	275	0
MAX							118	126	157	330	324	0
MIN							0	86	123	180	0	0
AC-FT							1,720	6,380	7,760	18,610	16,910	0
CAL YEAR 2002	MAX	361	MIN	0	AC-FT	48,910						
WTR YEAR 2003	MAX	330	MIN	0	AC-FT	51,380						

PLATTE RIVER BASIN

BUFFALO CREEK (B-1) RESERVOIR SUPPLY CANAL from Platte River, 00019500 - 2003

LOCATION.--SW1/4NW1/4 Sec. 9-11-22 W. via Gothenburg Canal near Darr

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1983, 1985 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

NO WATER DIVERTED IN 2003												
CAL YEAR 2002	MAX	27.4	MIN	0	AC-FT	341						
WTR YEAR 2003	MAX	0	MIN	0	AC-FT	0						

PLATTE RIVER BASIN

SIX MILE CANAL from Platte River, 00134000 - 2003

LOCATION.--SE1/4SE1/4 Sec. 11-11-26 W. near Gothenburg

GAGE.--Continuous stage recorder and 3 ft. Parshall flume

PERIOD OF RECORD.--1919, 1922 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	9.5	13	5.0	6.2
2								0	9.5	13	2.9	6.8
3								0	9.6	14	0	7.2
4								0	9.6	14	2.3	7.3
5								0	9.7	14	3.2	7.2
6								0	9.7	14	6.0	7.0
7								0	9.3	14	6.9	7.0
8								0	9.8	15	7.0	6.9
9								0	8.8	13	7.1	2.3
10								0	8.1	9.1	3.4	0
11								0	7.7	9.2	0	0
12								.70	9.7	9.3	0	0
13								6.7	10	9.3	.88	0
14								7.4	10	8.6	4.8	0
15								7.6	10	7.7	6.5	0
16								8.7	10	9.5	6.9	0
17								8.8	10	9.8	7.1	
18								8.8	11	9.8	7.2	
19								8.7	11	9.8	6.9	
20								8.6	11	9.9	5.1	
21								8.5	11	10	5.1	
22								8.3	11	10	4.6	
23							0	8.8	11	10	.09	
24							0	11	12	10	0	
25							0	10	14	10	3.5	
26							0	9.4	11	8.8	7.8	
27							0	8.8	13	8.8	7.7	
28							0	8.6	12	8.8	7.5	
29					-----		0	9.3	12	8.7	7.4	
30					-----		0	9.5	12	8.7	6.6	
31		-----			-----		-----	9.5	-----	7.6	6.3	-----
TOTAL							0	167.70	313.0	327.4	145.77	57.9
MEAN							0	5.41	10.4	10.6	4.70	3.62
MAX							0	11	14	15	7.8	7.3
MIN							0	0	7.7	7.6	0	0
AC-FT							0	333	621	649	289	115
CAL YEAR 2002	MAX	32	MIN	0	AC-FT	3,180						
WTR YEAR 2003	MAX	15	MIN	0	AC-FT	2,010						

PLATTE RIVER BASIN

COZAD CANAL from Platte River, 00033000 - 2003

LOCATION.--SE1/4SW1/4 Sec. 15-11-25 W. near Gothenburg

GAGE.--Continuous stage recorder and 20 ft. Parshall flume

PERIOD OF RECORD.--1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								22	44	78	186	0
2								49	44	63	179	0
3								43	44	21	178	0
4								24	45	10	178	0
5								23	45	10	178	0
6								22	45	10	172	0
7								22	45	10	173	0
8							0	22	45	9.4	172	0
9							0	20	50	42	173	0
10							0	21	61	73	172	0
11							0	22	61	85	170	0
12							0	21	71	84	170	0
13							0	21	95	85	170	0
14							0	19	95	162	172	0
15							0	21	95	231	171	0
16							0	29	95	236	173	0
17							0	37	91	233	174	0
18							0	32	91	235	173	0
19							0	30	92	234	173	0
20							0	31	92	235	160	0
21							0	26	92	232	151	0
22							0	19	92	227	153	0
23							0	24	92	220	153	0
24							0	23	92	220	153	0
25							0	21	76	219	148	0
26							0	21	67	210	144	0
27							0	30	76	197	88	0
28							0	44	76	190	0	0
29					-----		0	44	76	189	0	0
30					-----		0	44	77	190	0	0
31		-----			-----		-----	44	-----	188	0	-----
TOTAL							0	871	2,162	4,428.4	4,457	0
MEAN							0	28.1	72.1	143	144	0
MAX							0	49	95	236	186	0
MIN							0	19	44	9.4	0	0
AC-FT							0	1,730	4,290	8,780	8,840	0
CAL YEAR 2002	MAX	303	MIN	0	AC-FT	35,160						
WTR YEAR 2003	MAX	236	MIN	0	AC-FT	23,640						

PLATTE RIVER BASIN

ORCHARD ALFALFA CANAL from Platte River, 00117000 - 2003

LOCATION.--SW1/4SW1/4 Sec. 10-10-24 W. near Cozad

GAGE.--Continuous stage recorder and 10 ft. Parshall flume

PERIOD OF RECORD.--1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	21	23	32	0
2								0	22	23	33	0
3								0	22	26	32	0
4								0	22	26	32	0
5								0	22	26	31	0
6								0	22	27	32	0
7								0	22	30	32	0
8								0	22	35	32	0
9							0	2.1	22	37	33	0
10							0	3.3	22	36	31	
11							0	2.4	23	37	28	
12							0	3.8	24	36	28	
13							0	5.8	22	36	26	
14							0	11	22	37	25	
15							0	12	21	37	26	
16							0	13	22	35	29	
17							0	13	23	37	30	
18							0	13	22	39	32	
19							0	16	22	38	35	
20							0	17	21	37	34	
21							0	17	22	36	35	
22							0	17	22	34	34	
23							0	18	20	34	34	
24							0	18	22	35	34	
25							0	19	23	35	34	
26							0	20	22	33	36	
27							0	20	22	33	36	
28							0	21	22	33	34	
29					-----		0	21	23	32	11	
30					-----		0	21	23	31	0	
31		-----			-----		-----	21	-----	31	0	-----
TOTAL							0	325.4	662	1,025	901	0
MEAN							0	10.5	22.1	33.1	29.1	0
MAX							0	21	24	39	36	0
MIN							0	0	20	23	0	0
AC-FT							0	645	1,310	2,030	1,790	0
CAL YEAR 2002	MAX	74	MIN	0	AC-FT	7,780						
WTR YEAR 2003	MAX	39	MIN	0	AC-FT	5,780						

P L A T T E R I V E R B A S I N

DAWSON COUNTY CANAL from Platte River, 00037000 - 2003

LOCATION.--SW1/4SE1/4 Sec. 7-10-23 W. at Cozad

GAGE.--Continuous stage recorder and 25 ft. Parshall flume

PERIOD OF RECORD.--1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	132	201	410	223
2								0	136	249	403	222
3								0	136	318	401	239
4								.11	137	349	416	244
5								53	137	377	421	243
6								108	138	382	413	242
7								77	140	420	407	236
8								77	141	443	405	213
9							0	76	140	443	404	190
10							0	76	123	444	424	53
11							0	77	103	430	416	0
12							0	77	144	442	417	0
13							0	77	160	445	416	0
14							0	83	164	407	417	0
15							0	109	160	401	417	0
16							0	106	150	407	408	0
17							0	101	148	424	394	
18							0	94	163	434	418	
19							0	88	175	443	419	
20							0	82	175	443	419	
21							0	29	177	444	419	
22							0	1.2	169	445	420	
23							0	64	154	445	418	
24							0	119	153	442	418	
25							0	125	163	428	415	
26							0	134	175	439	417	
27							0	136	176	445	414	
28							0	110	194	445	363	
29					-----		0	108	187	445	333	
30					-----		0	125	170	443	256	
31		-----			-----		-----	131	-----	433	230	-----
TOTAL							0	2,443.31	4,620	12,756	12,348	2,105
MEAN							0	78.8	154	411	398	132
MAX							0	136	194	445	424	244
MIN							0	0	103	201	230	0
AC-FT							0	4,850	9,160	25,300	24,490	4,180
CAL YEAR 2002	MAX	529	MIN	0	AC-FT	68,420						
WTR YEAR 2003	MAX	445	MIN	0	AC-FT	67,980						

PLATTE RIVER BASIN

PLATTE RIVER near Cozad, 06766500 - 2003

LOCATION.--North channel gage: SE1/4NW1/4 Sec. 18-10-23 W., Dawson County, Lat. 40° 50' 19", Long. 99° 59' 17", at left, downstream end of north bridge on State Highway 21, 1.4 mile south of Cozad; South channel gage: SW1/4SW1/4 Sec. 18-10-23 W., Lat. 40° 49' 58", Long. 99° 59' 31", at left, downstream end of south bridge on State Highway 21, 1.9 mile south of Cozad.

DRAINAGE AREA.--Approximately 56,200 square miles, approximately 51,700 square miles contributes to surface runoff.

GAGE.--Continuous stage recorders on north and south channel gages

PERIOD OF RECORD.--Irrigation season 1932, 1937 - 1938, Apr. 1939 - present (monthly discharges only for periods).

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Records are fair, except estimated records are poor. Daily discharges for the combined channel do not include contribution from the South Channel from October 3 to March 24. The South Channel daily discharges during this period are approximately 5 cubic feet per second.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 21,500 cubic feet per second June 29, 1983, combined channel flow; flood of June 1935 estimated to have reached a discharge of 40,000 cubic feet per second; no flow at times in 1937-1940.

EXTREMES FOR CURRENT YEAR.--Peak discharge 397 cubic feet per second May 1, combined channel flow; minimum daily discharge 6.6 cubic feet per second September 7, combined channel flow.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	133	140	156	205	211	167	371	11	11	13	7.0
2	90	133	148	156	201	211	179	318	13	11	13	7.9
3	99	135	145	145	165E	200E	198	296	16	11	13	13
4	113	132	141	161	150E	190E	200	286	15	11	13	41
5	99	133	142	151	160E	165E	184	246	16	12	14	8.6
6	92	130	138	146	160E	171	185	189	12	11	12	7.2
7	84	132	142	147	130E	200	182	206	16	34	11	6.6
8	84	137	144	152	130E	188	187	198	17	53	11	14
9	83	136	143	150	162	171	195	215	13	20	11	18
10	94	136	141	142	175	164	203	226	9.2	15	113	111
11	100	133	137	126	175	175	209	190	9.0	11	59	121
12	98	138	146	133	186	175	199	166	13	22	52	103
13	86	136	146	141	194	172	200	140	8.6	20	71	90
14	84	135	150	154	193	170	209	104	9.7	12	22	78
15	83	135	153	150	179	172	215	48	9.9	12	15	71
16	86	136	152	120E	168	182	276	34	10	12	11	72
17	89	136	149	130E	178	195	257	20	11	12	11	68
18	91	141	150	140E	185	212	246	20	12	12	43	59
19	95	141	147	135E	188	226	251	19	13	21	49	52
20	92	142	135	155	188	217	247	17	13	22	52	51
21	92	145	123	160	189	216	215	72	14	51	21	49
22	93	138	121	130E	185	214	183	89	11	89	11	56
23	104	139	124	135E	130E	207	250	29	10	92	10	52
24	106	136	130	140E	120E	200	304	144	10	26	10	45
25	114	135	132	135E	130E	197	332	128	143	12	12	44
26	121	134	134	150E	140E	196	355	63	33	25	8.7	43
27	137	129	142	168	160E	198	344	17	12	107	7.9	40
28	142	139	149	169	180E	179	317	11	11	51	7.5	42
29	136	152	156	182	-----	167	296	10	9.9	28	22	43
30	141	145	164	183	-----	165	336	11	10	20	30	63
31	137	-----	150	197	-----	169	-----	11	-----	13	12	-----
TOTAL	3,148	4,102	4,414	4,639	4,706	5,875	7,121	3,894	511.3	859	761.1	1,476.3
MEAN	102	137	142	150	168	190	237	126	17.0	27.7	24.6	49.2
MAX	142	152	164	197	205	226	355	371	143	107	113	121
MIN	83	129	121	120	120	164	167	10	8.6	11	7.5	6.6
AC-FT	6,240	8,140	8,760	9,200	9,330	11,650	14,120	7,720	1,010	1,700	1,510	2,930

CAL YEAR 2002 TOTAL 50,227.50 MEAN 138 MAX 1,030 MIN 6.2 AC-FT 99,630
WTR YEAR 2003 TOTAL 41,506.70 MEAN 114 MAX 371 MIN 6.6 AC-FT 82,330

E indicates estimated discharge.

PLATTE RIVER BASIN

PLUM CREEK near Smithfield, 06767500 - 2003

LOCATION.--SE1/4SW1/4 Sec. 21-8-21 W. near Smithfield, Gosper County, Lat. 40° 38' 30", Long. 99° 42' 37", on the left bank 15 feet downstream from the county road bridge 4.8 miles north and 1.4 miles east of Smithfield, Nebraska.

DRAINAGE AREA.--224 square miles.

GAGE.--Continuous stage recorder. Elevation of gage approximately 2,400 feet from topographic map.

PERIOD OF RECORD.--USGS continuous record June 1946 - September 1953, October 1968 - September 1975, USGS annual peak 1954 - 1968, at a site 1.5 miles downstream. Continuous Department of Water Resources record at the present site 1980 - 1991 and USGS April 1996 - September 2002, Department of Natural Resources 2003.

REMARKS.--Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 2,800 cubic feet per second June 23, 1947, gage height 23.41 feet, at the datum and site then in use; minimum daily discharge zero on July 13, 1946.

EXTREMES FOR CURRENT YEAR.--Peak discharge 175 cubic feet per second May 24, gage height 7.91 feet, minimum daily discharge 8.1 cubic feet per second June 1.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	15	14	15	16	15E	15	26	8.1	15	15	11
2	9.7	14	14	15	16	15E	15	23	23	16	14	8.6
3	11	14	14	15	16	14E	15	22	48	15	15	7.7
4	13	15	14	14	14	14E	15	23	28	14	14	9.0
5	14	17	14	15	14E	14	15	22	16	13	14	8.8
6	11	17	14E	15	12E	14E	16	20	13	13	15	9.2
7	10	18	14	15	10E	14E	16	19	15	12	11	9.6
8	10	16	15	15	11E	16	16	19	17	12	11	6.5
9	10	16	15	15	12E	15E	17	19	15	13	12	6.0
10	10	16	15	14E	13E	15E	19	20	13	13	45	7.4
11	9.7	15	15	14E	14E	15	18	19	12	13	26	9.6
12	10	14	15	13E	14	16	16	19	23	14	12	15
13	9.9	14	15	13E	14	16	16	17	23	13	10	14
14	10	14	14	12E	15	16	16	17	14	14	9.9	9.8
15	11	14	15	12E	16	17	16	17	13	14	10	8.8
16	11	14	15	10E	16E	18	30	17	11	12	11	8.8
17	11	14	15	11E	16E	18	20	16	11	12	13	8.7
18	12	14	15	12E	16	20	22	15	12	11	16	8.7
19	12	14	15	13E	16	21	20	39	12	11	15	8.8
20	12	14	15	14E	16	20	18	39	12	12	14	9.0
21	12	15	15E	14E	16	18	16	21	12	13	13	9.5
22	12	14	15E	14E	16	16	16	16	12	15	11	9.4
23	13	14	15E	13E	13E	16	18	14	11	18	12	10
24	14	14	15E	12E	13E	16	31	100	18	16	13	9.6
25	13	14	15	14E	14E	15	29	64	44	15	12	9.1
26	14	14	15	15E	15E	15	24	38	39	11	11	10
27	15	14E	15	15	16E	15	20	43	13	11	11	9.0
28	17	14E	15E	18	16E	15	18	21	10	12	15	10
29	16	14	15E	17	-----	15	19	13	8.2	12	15	10
30	18	15	15	16E	-----	15	29	13	12	16	14	8.8
31	16	-----	15	16	-----	15	-----	8.3	-----	16	13	-----
TOTAL	377.0	441	457	436	406	494	571	779.3	518.3	417	442.9	280.4
MEAN	12.2	14.7	14.7	14.1	14.5	15.9	19.0	25.1	17.3	13.5	14.3	9.35
MAX	18	18	15	18	16	21	31	100	48	18	45	15
MIN	9.7	14	14	10	10	14	15	8.3	8.1	11	9.9	6.0
AC-FT	748	875	906	865	805	980	1,130	1,550	1,030	827	878	556
CAL YEAR 2002 TOTAL		5,542.00	MEAN	15.2	MAX	68	MIN	6.6	AC-FT	10,990		
WTR YEAR 2003 TOTAL		5,619.90	MEAN	15.4	MAX	100	MIN	6.0	AC-FT	11,150		

E indicates estimated daily discharge.

PLATTE RIVER BASIN

KEARNEY CANAL from Platte River, 00073000 - 2003

LOCATION.--SW1/4SW1/4 Sec. 2-8-18 W. near Elm Creek

GAGE.--Continuous stage recorder and 25 ft. Parshall flume

PERIOD.--1919, 1921 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	286	0						0	193	276	199	127
2	298							0	260	260	192	104
3	297						0	0	240	237	180	86
4	308						0	0	279	220	164	78
5	303						0	38	285	225	154	78
6	286						0	69	242	219	151	225
7	284						0	56	249	228	154	128
8	295						0	67	245	220	153	114
9	309						0	109	229	227	152	128
10	315						0	116	219	222	161	312
11	326						0	141	214	211	206	230
12	315						0	172	256	210	227	314
13	321						0	96	253	216	210	217
14	329						0	173	243	229	213	158
15	261						0	246	228	223	208	136
16	248						0	284	234	216	202	123
17	232						0	271	231	207	196	117
18	220						0	262	262	192	178	127
19	212						0	286	243	184	167	115
20	205						0	285	231	184	190	191
21	199						0	243	231	184	195	230
22	203						0	211	223	196	189	203
23	215						0	260	235	206	175	208
24	202						0	233	275	204	160	131
25	103						0	224	324	197	160	112
26	0						0	268	332	185	166	50
27	0						0	282	320	184	159	0
28	0						0	285	317	200	157	0
29	0				-----		0	258	306	222	153	0
30	0				-----		0	235	284	216	148	0
31	0	-----			-----		-----	200	-----	210	131	-----
TOTAL	6,572	0					0	5,370	7,683	6,610	5,450	4,042
MEAN	212	0					0	173	256	213	176	135
MAX	329	0					0	286	332	276	227	314
MIN	0	0					0	0	193	184	131	0
AC-FT	13,040	0					0	10,650	15,240	13,110	10,810	8,020
CAL YEAR 2002	MAX	329	MIN	0	AC-FT	67,820						
WTR YEAR 2003	MAX	332	MIN	0	AC-FT	70,860						

P L A T T E R I V E R B A S I N

KEARNEY POWER RETURN to Platte River, 00075000 - 2003

LOCATION.--NE1/4NE1/4 Sec. 10-8-16 W. at Kearney

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1939 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	0						0	148	257	149	90
2	262	0						0	222	240	142	77
3	272	0						0	204	215	142	60
4	277	0					0	0	213	163	121	51
5	272	0					0	0	253	179	108	51
6	261	0					0	0	223	179	106	95
7	256	0					0	0	211	183	108	135
8	254	0					0	7.7	225	157	98	88
9	264	0					0	46	204	153	107	95
10	290	0					0	89	197	166	166	185
11	290	0					0	90	192	162	185	223
12	292	0					0	114	220	158	198	210
13	292	0					0	99	234	159	201	221
14	296	0					0	67	227	164	199	118
15	265	0					0	153	206	168	192	112
16	223	0					0	204	209	165	184	98
17	222	0					0	204	220	157	182	90
18	205	0					0	194	223	142	166	92
19	162	0					0	231	223	130	129	90
20	175	0					0	233	208	128	122	112
21	173	0					0	229	207	128	126	147
22	166	0					0	138	180	142	132	170
23	182	0					0	217	249	136	125	138
24	175	0					0	315	223	142	115	118
25	124	0					0	267	283	133	105	82
26	12	0					0	223	305	128	99	71
27	0						0	220	299	120	105	14
28	0						0	237	289	133	98	0
29	0				-----		0	218	282	153	100	0
30	0				-----		0	194	263	157	96	
31	0	-----			-----		-----	145	-----	156	96	-----
TOTAL	5,913	0					0	4,134.7	6,842	4,953	4,202	3,033
MEAN	191	0					0	133	228	160	136	105
MAX	296	0					0	315	305	257	201	223
MIN	0	0					0	0	148	120	96	0
AC-FT	11,730	0					0	8,200	13,570	9,820	8,330	6,020
CAL YEAR 2002	MAX	296	MIN	0	AC-FT	50,880						
WTR YEAR 2003	MAX	315	MIN	0	AC-FT	57,680						

PLATTE RIVER BASIN

PLATTE RIVER near Odessa, 06770000 - 2003

LOCATION.--SW1/4NW1/4 Sec. 16-8-17 W., Phelps County, Lat. 40°39'53", Long 99°15'20", on right bank 15 feet downstream of county highway bridge, 2.5 miles south of Odessa and 5 miles downstream from Elm Creek.

DRAINAGE AREA.--58,100 square miles; approximately 53,300 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 2195.07 feet above National Geodetic Vertical Datum of 1929. Before October 7, 1938, non-recording gage and October 7, 1938 to September 30, 1942, water-stage recorder, both at datum 3.00 feet higher. From October 1, 1942 to July 23, 1984, datum 2.00 feet higher.

PERIOD OF RECORD.--Mar. 1937 - present (monthly discharges only for some periods)

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 22,900 cubic feet per second June 29,1983, gage height 5.82 feet, datum then in use; maximum gage height 7.94 feet June 10, 1995; no flow for periods in each year before 1947 and in 1953-57, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,680 cubic feet per second April 18, gage height 4.09 feet; maximum gage height for the year 4.75 feet due to backwater from ice conditions; minimum daily discharge 2.5 cubic feet per second August 31.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	372	190	603	691E	620E	1,000E	553	755	86	42	8.0	2.6
2	506	191	537	666	640E	800E	422	1,000	97	40	9.1	2.9
3	475	180	523	734	700E	780E	397	914	74	41	8.5	3.1
4	756	177	504	725	454E	740E	373	1,010	68	44	8.6	3.2
5	507	192	533	514	383E	1,000E	271	873	68	46	9.3	3.7
6	297	182	713	588	330E	980E	413	754	49	36	7.8	4.2
7	211	179	302	644	350E	900E	374	621	52	36	6.8	5.1
8	356	179	200	692	700E	800E	358	634	47	35	6.8	5.1
9	531	195	549	381	680E	700E	358	540	49	34	6.8	6.9
10	805	193	647	511	800E	680E	387	552	49	24	5.7	231
11	1,010	171	550	277	720E	697	414	529	46	19	6.1	27
12	913	170	661	400E	680E	628	403	518	64	18	5.7	364
13	897	154	654	320E	560E	603	421	429	55	23	5.0	31
14	1,120	406	689	580E	560E	607	583	380	44	25	4.4	13
15	161	1,090	614	460E	600E	599	621	354	38	20	4.4	12
16	33	910	695	380E	640E	782	1,160	228	34	18	4.2	13
17	21	787	603	460E	520E	666	956	168	34	16	3.6	14
18	18	609	636	600E	380E	422	1,050	148	51	15	3.6	12
19	14	716	619	550E	560E	408	964	292	49	16	3.7	11
20	13	554	586	550E	620E	364	841	272	48	15	4.2	201
21	12	234	653	680E	620E	341	660	162	41	12	3.7	84
22	12	517	577	400E	880E	537	723	133	39	10	4.0	24
23	13	474	583	390E	800E	796	697	111	78	9.2	4.4	24
24	12	269	532	440E	720E	741	824	567	100	8.9	3.7	23
25	39	192	300E	560E	900E	506	917	686	231	12	3.7	20
26	118	384	150E	500E	1,100E	561	788	317	660	13	4.4	27
27	151	196	190E	660E	1,200E	566	887	198	512	12	4.5	58
28	167	268	586	740E	1,250E	514	875	151	137	12	4.4	72
29	182	250	977	600E	-----	452	848	116	69	9.9	3.9	84
30	198	470	922	740E	-----	564	917	104	50	8.1	3.0	127
31	186	-----	789	600E	-----	671	-----	87	-----	7.4	2.5	-----
TOTAL	10,106	10,679	17,677	17,033	18,967	20,405	19,455	13,603	3,019	677.5	164.5	1,508.8
MEAN	326	356	570	549	677	658	649	439	101	21.9	5.31	50.3
MAX	1,120	1,090	977	740	1,250	1,000	1,160	1,010	660	46	9.3	364
MIN	12	154	150	277	330	341	271	87	34	7.4	2.5	2.6
AC-FT	20,050	21,180	35,060	33,780	37,620	40,470	38,590	26,980	5,990	1,340	326	2,990
CAL YEAR 2002 TOTAL		201,926.10	MEAN	553	MAX	2,200	MIN	6.3	AC-FT	400,500		
WTR YEAR 2003 TOTAL		133,294.80	MEAN	365	MAX	1,250	MIN	2.5	AC-FT	264,400		

E indicates estimated discharge.

PLATTE RIVER BASIN

WOOD RIVER near Alda, 06772000 - 2003

LOCATION.--NW1/4SW1/4 Sec. 8,T 10N,R 10 W., Hall County, Lat. 40° 51' 10", Long. 98° 28' 20", on right bank 1.2 miles south of Alda, 2.2 miles upstream from old north channel of the Platte River, and at mile 26.6 above mouth.

DRAINAGE AREA.--628 Square miles.

GAGE.--Continuous stage recorder, datum of gage 1897.66 ft. above sea level (U. S. Bureau of Reclamation bench mark)

PERIOD OF RECORD.--Oct. 1953 - present (monthly discharges only for some periods)

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are fair. Many small pump diversions for irrigation are above this station.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1,630 cubic feet per second June 16, 1967 at gage height 12.22 feet; minimum daily discharge of zero many times during period of record.

EXTREMES FOR CURRENT YEAR.--Peak discharge 106 cubic feet per second May 29, gage height 6.78 feet; minimum daily discharge zero October 1 - March 14, March 18 - April 25, and September 20 - 30.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	2.6	18	13	11	8.5
2	0	0	0	0	0	0	0	2.8	13	11	12	12
3	0	0	0	0	0	0	0	7.6	8.4	7.4	14	12
4	0	0	0	0	0	0	0	7.5	6.4	5.1	13	8.2
5	0	0	0	0	0	0	0	8.3	4.7	5.3	8.6	6.0
6	0	0	0	0	0	0	0	3.4	3.5	4.7	9.9	7.2
7	0	0	0	0	0	0	0	3.0	3.5	7.4	11	6.6
8	0	0	0	0	0	0	0	16	3.8	7.7	9.5	8.9
9	0	0	0	0	0	0	0	16	3.3	7.8	12	10
10	0	0	0	0	0	0	0	13	3.1	8.9	12	5.4
11	0	0	0	0	0	0	0	11	1.7	10	9.9	9.6
12	0	0	0	0	0	0	0	7.3	4.2	9.1	12	9.6
13	0	0	0	0	0	0	0	5.2	2.2	9.6	12	7.5
14	0	0	0	0	0	0	0	3.9	2.5	10	7.7	7.3
15	0	0	0	0	0	.07	0	3.1	2.7	10	7.9	5.3
16	0	0	0	0	0	.89	0	2.5	2.1	9.6	9.5	4.6
17	0	0	0	0	0	.02	0	2.2	1.8	9.9	12	4.2
18	0	0	0	0	0	0	0	1.4	2.1	11	14	2.2
19	0	0	0	0	0	0	0	7.3	1.7	12	14	.11
20	0	0	0	0	0	0	0	4.9	2.0	12	13	0
21	0	0	0	0	0	0	0	4.4	1.7	12	12	0
22	0	0	0	0	0	0	0	3.9	1.5	11	12	0
23	0	0	0	0	0	0	0	4.2	2.7	9.9	11	0
24	0	0	0	0	0	0	0	10	3.9	12	10	0
25	0	0	0	0	0	0	0	12	5.0	12	9.2	0
26	0	0	0	0	0	0	.01	10	3.0	12	11	0
27	0	0	0	0	0	0	.34	11	8.4	12	9.8	0
28	0	0	0	0	0	0	.20	58	7.1	12	6.2	0
29	0	0	0	0	-----	0	6.0	99	6.1	11	9.7	0
30	0	0	0	0	-----	0	3.9	53	10	8.6	12	0
31	0	-----	0	0	-----	0	-----	27	-----	9.2	10	-----
TOTAL	0	0	0	0	0	0.98	10.45	421.5	140.1	303.2	337.9	135.21
MEAN	0	0	0	0	0	.032	.35	13.6	4.67	9.78	10.9	4.51
MAX	0	0	0	0	0	.89	6.0	99	18	13	14	12
MIN	0	0	0	0	0	0	0	1.4	1.5	4.7	6.2	0
AC-FT	0	0	0	0	0	1.9	21	836	278	601	670	268
CAL YEAR 2002	TOTAL	734.10	MEAN	2.01	MAX	28	MIN	0	AC-FT	1,460		
WTR YEAR 2003	TOTAL	1,349.34	MEAN	3.70	MAX	99	MIN	0	AC-FT	2,680		

PLATTE RIVER BASIN (LOUP RIVER)

SARGENT CANAL from Middle Loup River, 00130000 - 2003

LOCATION.--NW1/4NE1/4 Sec. 32-21-21 W. near Milburn

GAGE.--Continuous stage recorder and 10 ft. Parshall flume

PERIOD OF RECORD.--1957 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	90	231	111
2									0	110	201	41
3									0	110	193	41
4									0	111	204	41
5									0	121	215	127
6									0	128	221	194
7									0	165	223	205
8									0	188	228	206
9									0	118	201	188
10									0	77	193	164
11									0	76	203	111
12									0	102	195	71
13									0	113	202	62
14									0	161	205	59
15									0	212	208	59
16									0	233	197	60
17									0	238	195	58
18									0	237	218	59
19									0	238	221	17
20									0	237	221	0
21									0	239	222	0
22									0	215	223	0
23									0	209	217	0
24									0	214	215	0
25									0	229	215	0
26									0	237	226	0
27									0	238	258	0
28									12	252	260	0
29					-----				40	244	261	0
30					-----				66	242	254	0
31		-----			-----		-----		-----	234	246	-----
TOTAL									118	5,618	6,772	1,874
MEAN									3.93	181	218	62.5
MAX									66	252	261	206
MIN									0	76	193	0
AC-FT									234	11,140	13,430	3,720
CAL YEAR 2002	MAX	272	MIN	0	AC-FT	28,610						
WTR YEAR 2003	MAX	261	MIN	0	AC-FT	28,530						

PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 1 from Middle Loup River, 00090000 - 2003

LOCATION.--SW1/4NW1/4 Sec. 14-19-18 W. near Sargent

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1938 - present

REMARKS.--Records from 1944 - 1946 are published in the 1980 Hydrographic Report

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	15	5.0	38	19
2								0	14	16	37	10
3								0	14	18	37	7.4
4								0	14	20	36	8.8
5								0	13	21	35	19
6								0	12	22	33	24
7								0	12	25	34	27
8								0	12	27	35	30
9								0	12	23	35	34
10								0	6.3	24	37	35
11								0	13	27	37	30
12								0	13	31	35	24
13								0	13	30	36	22
14								0	13	29	36	21
15								18	13	32	36	20
16								16	13	32	35	21
17								16	14	31	34	22
18								16	13	34	35	8.5
19								16	13	36	35	0
20								16	13	37	35	0
21								16	13	38	34	0
22								15	13	38	35	0
23								16	13	38	35	0
24								16	13	36	35	0
25								16	6.3	35	35	0
26								15	5.9	36	36	0
27								15	3.3	38	36	0
28								15	0	38	38	0
29					-----			15	0	37	38	0
30					-----			15	0	37	38	0
31		-----			-----		-----	15	-----	38	39	-----
TOTAL								267	322.8	929.0	1,110	382.7
MEAN								8.61	10.8	30.0	35.8	12.8
MAX								18	15	38	39	35
MIN								0	0	5.0	33	0
AC-FT								530	640	1,840	2,200	759
CAL YEAR 2002	MAX	42	MIN	0	AC-FT	7,080						
WTR YEAR 2003	MAX	39	MIN	0	AC-FT	5,970						

PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 1 PUMP from Middle Loup River, 00090200 - 2003

LOCATION.--Sec. 19-19-17 W. near Sargent

GAGE.--Flow Meter

PERIOD OF RECORD.--1987 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										0	9.0	2.2
2										0	9.0	0
3										0	9.0	0
4										0	9.0	0
5										0	9.0	6.8
6										0	9.0	9.0
7										0	9.0	9.0
8										0	9.0	9.0
9										0	9.0	9.0
10										0	9.0	5.2
11										0	9.0	0
12										0	9.0	0
13										5.2	9.0	0
14										9.0	9.0	0
15										9.0	9.0	0
16										9.0	9.0	0
17										9.0	9.0	0
18										9.0	9.0	0
19										9.0	9.0	0
20										9.0	9.0	0
21										9.0	9.0	0
22										9.0	9.0	0
23										9.0	9.0	0
24										9.0	9.0	0
25										9.0	9.0	0
26										9.0	9.0	0
27										9.0	9.0	0
28										9.0	9.0	0
29					-----					9.0	9.0	0
30					-----					9.0	9.0	0
31		-----			-----		-----		-----	9.0	9.09	-----
TOTAL										167.2	279.0	50.2
MEAN										5.39	9.00	1.67
MAX										9.0	9.0	9.0
MIN										0	9.0	0
AC-FT										332	553	100
CAL YEAR 2002	MAX	9.0	MIN	0	AC-FT	887						
WTR YEAR 2003	MAX	9.0	MIN	0	AC-FT	985						

PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 2 from Middle Loup River, 00091000 - 2003

LOCATION.--NE1/4NW1/4 Sec. 14-19-18 W. near Sargent

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1938 - present

REMARKS.--Records from 1944 - 1946 are published in the 1980 Hydrographic Report

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	13	12	52	18
2								0	16	11	52	4.8
3								0	13	12	52	.37
4								0	10	15	51	1.8
5								0	10	19	48	32
6								0	9.7	23	46	35
7								0	8.5	29	47	37
8								0	6.9	33	48	40
9								0	6.1	26	47	43
10								0	5.3	23	45	42
11								0	5.6	27	45	25
12								21	8.3	34	49	18
13								21	10	34	51	16
14								21	11	34	51	17
15								22	12	38	50	17
16								22	14	45	49	18
17								22	15	46	51	19
18								23	16	51	51	8.6
19								23	17	50	51	0
20								24	18	49	50	0
21								23	18	49	50	0
22								23	17	47	53	0
23								22	16	47	50	0
24								23	16	47	50	0
25								22	17	46	50	0
26								21	15	48	52	0
27								19	12	50	54	0
28								16	12	51	58	0
29					-----			16	11	51	58	0
30					-----			15	11	51	57	0
31		-----			-----		-----	15	-----	52	53	-----
TOTAL								414	370.4	1,150	1,571	392.57
MEAN								13.4	12.3	37.1	50.7	13.1
MAX								24	18	52	58	43
MIN								0	5.3	11	45	0
AC-FT								821	735	2,280	3,120	779
CAL YEAR 2002	MAX	60	MIN	0	AC-FT	8,920						
WTR YEAR 2003	MAX	58	MIN	0	AC-FT	7,730						

PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 3 from Middle Loup River, 00092000 - 2003

LOCATION.--NW1/4NW1/4 Sec. 6-17-16 W. near Comstock

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1938 - present

REMARKS.--Records from 1944 - 1946 are published in the 1980 Hydrographic Report

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	38	24	129	48
2								0	39	45	134	12
3								0	41	69	132	12
4								0	37	74	129	19
5								0	39	95	123	86
6								0	38	116	125	136
7								0	38	125	124	131
8								0	37	140	130	133
9								0	37	150	129	119
10								0	35	131	132	96
11								0	35	143	127	45
12								0	30	136	126	45
13								29	28	137	126	45
14								26	28	137	120	46
15								10	27	138	116	46
16								12	27	138	120	45
17								14	27	144	111	43
18								15	26	146	114	19
19								17	26	134	117	0
20								19	26	126	115	0
21								21	24	123	112	0
22								23	23	128	112	0
23								25	22	128	110	0
24								26	21	127	112	0
25								28	20	122	117	0
26								29	20	128	125	0
27								30	21	129	129	0
28								31	20	130	121	0
29					-----			33	21	123	121	0
30					-----			34	20	122	127	0
31		-----			-----		-----	35	-----	124	122	-----
TOTAL								457	871	3,732	3,787	1,126
MEAN								14.7	29.0	120	122	37.5
MAX								35	41	150	134	136
MIN								0	20	24	110	0
AC-FT								906	1,730	7,400	7,510	2,230
CAL YEAR 2002	MAX	150	MIN	0	AC-FT	22,740						
WTR YEAR 2003	MAX	150	MIN	0	AC-FT	19,780						

PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 4 from Middle Loup River, 00093000 - 2003

LOCATION.--SW1/4SW1/4 Sec. 31-18-16 W. near Comstock

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1938 - present

REMARKS.--Records from 1944 - 1946 are published in the 1980 Hydrographic Report

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	43	29	121	54
2								0	40	41	119	16
3								0	39	49	122	17
4								0	38	51	120	17
5								0	38	68	122	90
6								30	38	73	119	108
7								42	36	93	118	101
8								43	35	105	119	117
9								43	34	127	115	111
10								44	33	125	115	95
11								45	33	126	113	38
12								45	35	127	112	37
13								41	36	124	115	37
14								37	36	129	116	38
15								38	36	133	115	37
16								38	36	132	117	37
17								38	37	131	116	36
18								38	37	124	117	15
19								38	37	127	108	0
20								37	34	126	109	0
21								38	27	127	108	0
22								38	30	127	105	0
23								38	31	126	104	0
24								38	29	125	106	0
25								37	28	124	111	0
26								37	28	124	120	0
27								37	28	124	122	0
28								40	28	124	119	0
29					-----			39	29	122	121	0
30					-----			41	29	123	121	0
31		-----			-----		-----	42	-----	123	122	-----
TOTAL								1,022	1,018	3,409	3,587	1,001
MEAN								33.0	33.9	110	116	33.4
MAX								45	43	133	122	117
MIN								0	27	29	104	0
AC-FT								2,030	2,020	6,760	7,110	1,990
CAL YEAR 2002	MAX	139	MIN	0	AC-FT	20,350						
WTR YEAR 2003	MAX	133	MIN	0	AC-FT	19,910						

PLATTE RIVER BASIN (LOUP RIVER)

FARWELL (SHERMAN FEEDER) CANAL from Middle Loup River, 00047000 - 2003

LOCATION.--NE1/4SE1/4 Sec. 36-18-17 W. near Comstock

GAGE.--Continuous stage recorder and 25 ft. Parshall flume

PERIOD OF RECORD.--1963 - present

REMARKS.--Total diversion includes 176 A.F. delivered to Middle Loup Canal No. 4

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	426						0	316	481	298	141	333
2	438						0	297	382	341	141	492
3	427						0	295	299	393	165	530
4	425						0	280	307	461	182	595
5	404						0	275	304	471	163	443
6	415						0	239	304	420	155	271
7	387						0	231	260	370	145	187
8	384						0	233	244	299	132	181
9	393						0	239	240	336	126	209
10	412						0	241	253	382	155	263
11	405						0	222	247	332	178	399
12	420						0	235	306	346	183	381
13	431						0	245	379	347	191	393
14	350						68	268	393	293	184	392
15	230						178	244	389	226	158	391
16	143						238	259	390	144	166	385
17	44						258	252	402	122	163	378
18	0						323	251	399	113	156	413
19	0						355	267	392	136	166	376
20	0						343	247	384	144	172	401
21	0						338	253	403	152	162	421
22	0						353	252	401	202	145	411
23	0						358	253	358	194	148	423
24	0						370	264	304	185	149	417
25	0						339	263	317	170	136	404
26	0						379	239	288	139	123	417
27	0						370	264	291	122	134	419
28	0						354	344	304	179	109	412
29	0				-----		352	369	299	153	85	411
30	0				-----		344	453	301	140	98	419
31	0	-----			-----		-----	484	-----	142	107	-----
TOTAL	6,134						5,320	8,574	10,021	7,752	4,618	11,567
MEAN	198						177	277	334	250	149	386
MAX	438						379	484	481	471	191	595
MIN	0						0	222	240	113	85	181
AC-FT	12,170						10,550	17,010	19,880	15,380	9,160	22,940
CAL YEAR 2002	MAX	530	MIN	0	AC-FT	108,900						
WTR YEAR 2003	MAX	595	MIN	0	AC-FT	107,100						

PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 4 from Sherman Feeder Canal, 00093200 - 2003

LOCATION.--SW1/4SW1/4 Sec. 30-17-15 W. near Arcadia

GAGE.--Flow meter

PERIOD OF RECORD.--1986 - present

REMARKS.--This flow diverted by Farwell (Sherman Feeder) Canal

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											0	0
2											0	0
3											0	0
4											0	0
5											0	0
6											0	14
7											0	0
8											0	0
9											0	0
10											0	0
11											0	0
12											0	0
13											0	0
14											0	0
15											0	0
16											0	0
17											0	0
18											0	0
19											0	0
20											0	0
21											0	0
22											0	0
23											0	0
24											0	0
25											0	0
26											3.1	0
27											11	0
28											13	0
29					-----						26	0
30					-----						14	0
31		-----			-----		-----		-----		7.5	-----
TOTAL											74.6	14
MEAN											2.41	.47
MAX											26	14
MIN											0	0
AC-FT											148	28
CAL YEAR 2002	MAX	23	MIN	0	AC-FT	271						
WTR YEAR 2003	MAX	26	MIN	0	AC-FT	176						

PLATTE RIVER BASIN (LOUP RIVER)

SHERMAN RESERVOIR from the Middle Loup River, 06784200 - 2003

LOCATION.--SW1/4SW1/4 Sec. 36-16-14 W.

GAGE.--Staff gage

PERIOD OF RECORD.--1963 - present

STORAGE LEVEL	ELEVATION (Feet)	CONTENT (Acre-feet)
Top of conservation pool	2,162.3	69,076
Top of dead storage pool	2,118.5	3,839

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45,580	54,920	53,550	52,000	50,580	50,110	48,960	57,690	68,500	69,650	45,480	15,050
2	46,480	54,670	53,550	52,000	50,580	50,580	48,960	58,200	69,080	69,650	45,370	15,370
3	47,310	54,670	53,210	51,770	50,580	50,110	48,960	58,720	69,360	69,650	44,290	16,130
4	48,270	54,670	53,210	51,770	50,580	50,110	48,960	59,240	69,360	69,650	43,210	16,920
5	48,960	54,670	53,210	51,770	50,580	50,110	48,960	59,750	69,650	69,650	42,170	17,740
6	49,650	54,670	53,210	51,770	50,580	50,110	48,960	60,010	69,650	69,650	41,330	17,860
7	50,350	54,430	53,210	51,770	50,580	50,110	48,960	60,280	69,650	69,650	40,320	17,380
8	50,820	54,430	53,210	51,770	50,580	50,110	48,960	60,540	69,650	69,650	39,110	16,810
9	51,530	54,430	52,970	51,770	50,580	50,110	48,960	61,080	69,360	68,790	38,130	16,350
10	52,000	54,430	52,970	51,770	50,580	49,650	48,960	61,340	69,360	67,930	37,160	16,020
11	52,720	54,180	52,970	51,770	50,580	49,650	48,960	61,870	69,080	67,370	36,210	16,580
12	53,210	54,180	52,970	51,770	50,580	49,650	48,960	61,870	68,790	66,810	35,650	17,500
13	53,940	54,180	52,970	51,530	50,580	49,650	48,960	62,140	68,790	65,970	35,280	18,210
14	54,430	54,180	52,970	51,530	50,580	49,650	48,730	62,670	69,080	65,400	34,730	18,940
15	55,170	54,180	52,970	51,530	50,580	49,650	48,730	62,940	69,080	64,580	34,180	19,690
16	55,420	53,940	52,720	51,530	50,580	49,650	48,960	63,220	69,080	63,760	33,280	20,460
17	55,670	53,940	52,720	51,530	50,580	49,650	49,190	63,490	69,080	62,670	32,230	21,240
18	55,670	53,940	52,720	51,530	50,580	49,650	49,420	63,760	69,080	61,340	31,200	22,050
19	55,670	53,940	52,720	51,530	50,580	49,650	50,350	64,040	69,650	60,280	30,120	22,730
20	55,670	53,940	52,720	51,530	50,580	49,650	50,820	64,580	69,650	59,980	28,550	23,430
21	55,420	53,940	52,780	51,530	50,580	49,650	51,290	64,860	69,650	57,940	27,290	24,290
22	55,420	53,940	52,480	51,290	50,580	49,650	52,000	65,130	69,650	56,930	26,210	25,160
23	55,170	53,940	52,240	51,290	50,580	49,650	52,480	65,400	69,650	55,670	25,020	25,910
24	55,170	53,940	52,240	51,290	50,580	49,190	53,550	65,690	69,940	54,670	23,850	26,670
25	55,170	53,700	52,240	51,290	50,580	49,190	52,940	66,250	69,940	53,700	22,870	27,440
26	55,170	53,700	52,240	51,290	50,580	49,190	54,430	66,530	69,940	52,720	21,910	28,230
27	54,920	53,700	52,240	51,290	50,580	49,190	55,170	66,810	69,650	51,770	20,590	29,040
28	54,920	53,700	52,240	51,290	50,580	49,190	55,670	67,090	69,650	50,820	19,310	29,850
29	54,920	53,700	52,000	51,290	-----	49,190	56,170	67,370	69,650	49,650	18,090	30,690
30	55,170	53,700	52,000	51,290	-----	49,190	57,180	67,930	69,650	48,730	16,920	31,370
31	54,920	-----	52,000	51,060	-----	49,190	-----	69,080	-----	47,590	16,020	-----
MAX	55,670	54,920	53,550	52,000	50,580	50,580	57,180	69,080	69,940	69,650	45,480	31,370
MIN	45,580	53,700	52,000	51,060	50,580	49,190	48,730	57,690	68,500	47,590	16,020	15,050
CHANGE	9,980	-1,220	-1,700	-940	-480	-1,390	7,990	11,900	570	-22,060	-31,570	15,350
CAL YEAR 2002			MEAN	50,093	MAX	69,800	MIN	23,200				
WTR YEAR 2003			MEAN	50,872	MAX	69,940	MIN	15,050				

PLATTE RIVER BASIN (LOUP RIVER)

FARWELL "MAIN" CANAL from Sherman Reservoir, 00048000 - 2003

LOCATION.--NW1/4SW1/4 Sec. 1-15-14 W. below Sherman Reservoir

GAGE.--Continuous stage recorder and six orifice gates

PERIOD OF RECORD.--1964 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	99	115	422	118
2								0	98	120	417	61
3								0	98	150	417	65
4								0	98	193	417	62
5								0	101	245	401	195
6								0	128	258	387	256
7								0	128	297	391	261
8								0	128	356	382	242
9								0	146	400	363	204
10								0	153	408	358	166
11								0	158	404	244	40
12								0	162	386	186	0
13								0	162	386	192	0
14								0	162	400	238	0
15								0	162	408	292	0
16								0	163	434	368	0
17								0	163	447	388	0
18								0	163	442	445	0
19								0	160	447	471	0
20								0	156	452	458	0
21								0	153	463	442	0
22								0	153	452	424	0
23								0	145	432	378	0
24								0	143	422	363	0
25								0	143	407	363	0
26								0	133	393	401	0
27								0	124	398	421	0
28								0	124	398	424	0
29					-----			0	124	416	418	0
30					-----			53	118	418	344	0
31		-----			-----		-----	99	-----	422	321	-----
TOTAL								152	4,148	11,369	11,536	1,670
MEAN								4.90	138	367	372	55.7
MAX								99	163	463	471	261
MIN								0	98	115	186	0
AC-FT								301	8,230	22,550	22,880	3,310
CAL YEAR 2002	MAX	474	MIN	0	AC-FT	56,630						
WTR YEAR 2003	MAX	471	MIN	0	AC-FT	57,270						

PLATTE RIVER BASIN (LOUP RIVER)

FARWELL "SOUTH" CANAL from Sherman Reservoir, 00049000 - 2003

LOCATION.--NW1/4SW1/4 Sec. 1-15-14 W. below Sherman Reservoir

GAGE.--Continuous stage recorder and four orifice gates

PERIOD OF RECORD.--1965 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	63	58	245	80
2								0	62	58	229	40
3								0	61	58	225	40
4								0	61	65	215	40
5								0	80	75	212	135
6								0	88	76	224	167
7								0	88	120	232	174
8								0	88	162	228	177
9								0	87	201	207	159
10								0	87	222	197	122
11								0	87	250	171	28
12								0	87	253	150	0
13								0	84	249	155	0
14								0	83	253	186	0
15								0	83	249	206	0
16								0	88	264	217	0
17								0	91	264	217	0
18								0	91	264	247	0
19								0	85	257	269	0
20								0	83	253	267	0
21								0	77	257	263	0
22								0	74	261	258	0
23								0	73	257	235	0
24								0	73	249	228	0
25								0	75	241	244	0
26								0	70	233	264	0
27								0	64	233	268	0
28								0	63	233	264	0
29					-----			0	63	249	243	0
30					-----			44	59	249	210	0
31		-----			-----		-----	63	-----	249	203	-----
TOTAL								107	2,318	6,362	6,979	1,162
MEAN								3.45	77.3	205	225	38.7
MAX								63	91	264	269	177
MIN								0	59	58	150	0
AC-FT								212	4,600	12,620	13,840	2,300
CAL YEAR 2002	MAX	302	MIN	0	AC-FT	32,310						
WTR YEAR 2003	MAX	269	MIN	0	AC-FT	33,580						

PLATTE RIVER BASIN (LOUP RIVER)

MUD CREEK near Sweetwater, 06783500 - 2003

LOCATION.--NE1/4SE1/4 Sec. 3-12-15 W., Buffalo County, Lat. 41° 02' 15", Long. 98° 59' 35", on right bank 10 feet downstream from bridge on State Highway 2, 0.9 mile southeast of Sweetwater, and 11.6 miles upstream from mouth.

DRAINAGE AREA.--707 square miles, approximately 655 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,013.69 feet above sea level.

PERIOD OF RECORD.--July 1946 - present

REMARKS.--Record published by U. S. Geological Survey up to October 1 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge estimated 27,000 cubic feet per second June 22, 1947, gage height 23.20 feet. Peak discharge computed 5,600 cubic feet per second June 24, 1968, gage height 20.07 feet; minimum daily discharge zero at times in 1955, 1956, & 2003.

EXTREMES FOR CURRENT YEAR.--Peak discharge 378 cubic feet per second June 18, gage height 10.62 feet; minimum daily discharge zero on August 21 & 30.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	17E	11 E	12 E	16E	16E	18	265	19	21	6.5	4.2
2	5.0	19	11 E	11 E	14E	17E	17	137	19	19	3.6	6.7
3	3.9	18	10 E	12 E	15E	18E	17	51	19	19	2.8	6.1
4	18	21	9.4E	13 E	12E	17E	16	42	19	18	3.6	6.4
5	14	21	9.0E	12 E	13E	15E	16	92	25	18	2.1	6.7
6	7.8	23	9.0E	13 E	11E	17E	17	87	30	18	3.3	5.5
7	10	21	9.4E	14 E	11E	19E	18	47	25	17	4.2	10
8	12	20	9.8E	13 E	12E	16E	19	32	22	17	2.3	12
9	6.7	19	9.0E	12 E	14E	19E	19	28	25	16	2.3	15
10	5.5	20	8.6E	12 E	13E	18E	19	37	21	14	4.8	7.2
11	4.5	18	9.0E	11 E	14E	19E	19	34	21	15	5.2	2.0
12	7.2	17	9.0E	10 E	14E	20E	19	32	19	15	5.6	149
13	8.2	16	8.4E	11 E	13E	19E	18	26	20	17	2.8	34
14	7.8	15	9.8E	12 E	14E	21E	18	26	65	13	3.2	1.3
15	8.6	13	11 E	10 E	15E	20E	17	24	22	12	1.6	.18
16	7.9	13	13 E	11 E	12E	19	21	22	18	11	1.3	.50
17	8.8	12	12 E	9.0E	15E	19	22	21	18	9.4	1.3	.38
18	9.7	12	13 E	10 E	14E	19	22	20	112	10	1.8	1.0
19	8.8	12	12 E	11 E	13E	19	21	19	111	9.8	.96	2.0
20	9.8	12	9.0E	10 E	14E	19	23	20	80	7.7	.38	2.4
21	9.7	12	8.0E	12 E	15E	18	22	19	43	7.4	0	3.4
22	9.2	12	7.6E	13 E	17E	18	20	18	25	6.9	.47	4.1
23	11	13	7.0E	12 E	14E	17	22	18	22	5.7	.85	4.5
24	11	12	8.0E	10 E	11E	17	23	45	29	6.5	1.1	4.7
25	12	12	8.8E	12 E	14E	17	26	33	160	4.2	1.1	5.4
26	14	10E	10 E	13 E	15E	17	27	28	173	3.2	1.9	5.8
27	15	11E	9.6E	13 E	17E	18	31	49	123	7.1	3.1	6.1
28	16	10E	11 E	14 E	16E	18	24	25	46	7.8	2.6	6.8
29	17	11E	12 E	14 E	-----	18	23	20	29	6.8	.53	7.1
30	19	12E	11 E	15 E	-----	17	28	19	24	8.3	0	7.0
31	19	-----	11 E	17 E	-----	18	-----	18	-----	6.7	1.1	-----
TOTAL	323.6	454	306.4	374.0	388	559	622	1,354	1,384	367.5	72.39	327.46
MEAN	10.4	15.1	9.88	12.1	13.9	18.0	20.7	43.7	46.1	11.9	2.34	10.9
MAX	19	23	13	17	17	21	31	265	173	21	6.5	149
MIN	3.9	10	7.0	9.0	11	15	16	18	18	3.2	0	.18
AC-FT	642	901	608	742	770	1,110	1,230	2,690	2,750	729	144	650
CAL YEAR 2002	TOTAL	5,004.81	MEAN	13.7	MAX	60	MIN	0	AC-FT	9,930		
WTR YEAR 2003	TOTAL	6,532.35	MEAN	17.9	MAX	265	MIN	0	AC-FT	12,960		

E indicates estimated discharge.

PLATTE RIVER BASIN (LOUP RIVER)

TURKEY CREEK near Dannebrog, 06784800 - 2003

LOCATION.--SW1/4NW1/4 Sec. 26-14-11 W., Howard County, Lat. 41° 09' 24", Long. 98° 33' 22", on left bank 25 feet downstream from State Highway 11 bridge, 2.8 miles north of Dannebrog, and 10 miles above mouth.

DRAINAGE AREA.--66.2 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,870.35 feet above sea level.

PERIOD OF RECORD.--1966 - 1970, 1978 - present

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1993. Records are good, except estimated record are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 2,680 cubic feet per second June 14, 1967, gage height 19.21 feet; maximum gage height 19.26 feet June 12, 1983; no flow May 17-20, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge 415 cubic feet per second May 5, gage height 11.42 feet, minimum daily discharge 2.1 cubic feet per second October 1.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	6.0E	5.8E	6.6	9.3	6.8E	6.7	54	10 E	13	24	25
2	3.3	6.2	5.8E	6.3	10	7.0E	6.7	19	10 E	13	25	11
3	3.9	6.5	6.0E	5.6E	8.4E	6.6E	7.0	15	9.8E	12	26	9.3
4	5.2	7.1	5.6E	5.8E	7.8E	7.0E	7.3	225	9.6E	12	33	8.2
5	4.7	7.7	5.4E	6.0E	7.4E	7.2E	7.0	225	9.4E	13	33	7.2
6	3.4	8.2	5.6E	5.8E	7.2E	6.6E	7.6	38	10	17	32	7.5
7	3.4	8.4	5.8E	6.4E	7.6E	6.6E	9.0	26	9.7	20	26	8.8
8	3.4	8.4	5.6E	7.0	7.9	6.8E	8.5	25	12	22	21	10
9	3.1	8.1	5.4E	7.2	7.4	6.4E	9.9	42	10	22	20	14
10	3.2	7.5	5.6E	6.6E	7.4	6.6E	13	24	84	21	33	13
11	3.4	7.3	6.0E	6.8E	6.8E	7.2	11	34	29	22	34	15
12	3.5	6.8	6.2E	6.6E	7.3	7.5	9.4	27	13	23	20	34
13	3.6	6.7	6.0E	6.2E	7.6	6.9	8.9	21	11	22	15	15
14	3.4	6.9	6.2E	6.4E	8.8	6.8	8.7	19	11	23	15	7.5
15	3.7	7.4	6.4E	5.8E	8.0E	7.4	8.6	20	15	23	12	7.0
16	3.5	7.9	6.9	4.5E	7.6E	7.2	9.1	17	9.4	23	18	5.5
17	4.0	7.2	7.3	5.6E	8.4E	7.5	9.2	15	11	25	21	3.9
18	3.6	6.8	6.6E	6.0E	9.0	7.8	9.3	15	47	24	26	3.9
19	2.8	6.7	6.4E	6.4E	9.8	8.3	10	15	13	26	26	3.4
20	3.5	6.4	6.4E	7.0E	10	7.8	9.2	14	10	27	32	3.9
21	3.7	6.4	6.0E	6.8E	9.1	7.0	8.5	13	10	29	28	3.4
22	4.2	6.7	5.8E	6.4E	8.4	6.6	8.2	12	9.7	31	30	4.4
23	4.6	6.7	5.2E	7.8E	7.4E	6.4	9.6	12	9.4	31	29	4.2
24	5.1	6.9	4.8E	7.6E	6.0E	6.5	20	13	8.8	34	24	3.2
25	5.4	6.4E	5.2E	8.0E	6.6E	6.5	15	12	63	32	22	3.1
26	5.3	6.2E	5.4E	8.4E	7.6E	6.4	12	11	67	26	20	3.0
27	5.2	6.4E	5.7	9.1	7.4E	7.4	11	10	17	21	20	2.9
28	6.3	6.2E	5.7	8.5	7.0E	7.7	11	9.9	29	22	24	2.9
29	5.4	6.2E	6.3	8.4	-----	6.6	11	9.7	17	19	28	3.3
30	6.0E	6.0E	6.5	8.1	-----	6.6	75	9.6E	15	19	29	3.3
31	5.8E	-----	6.2	9.0	-----	6.7	-----	9.8E	-----	21	27	-----
TOTAL	127.7	208.3	183.8	212.7	223.2	216.4	357.4	1,012.0	589.8	688	773	246.8
MEAN	4.12	6.94	5.93	6.86	7.97	6.98	11.9	32.6	19.7	22.2	24.9	8.23
MAX	6.3	8.4	7.3	9.1	10	8.3	75	225	84	34	34	34
MIN	2.1	6.0	4.8	4.5	6.0	6.4	6.7	9.6	8.8	12	12	2.9
AC-FT	253	413	365	422	443	429	709	2,010	1,170	1,360	1,530	490
CAL YEAR 2002 TOTAL		3,504.30	MEAN	9.60	MAX	39	MIN	2.1	AC-FT	6,950		
WTR YEAR 2003 TOTAL		4,839.10	MEAN	13.3	MAX	225	MIN	2.1	AC-FT	9,600		

E indicates estimated discharge.

PLATTE RIVER BASIN (LOUP RIVER)

TAYLOR-ORD CANAL from North Loup River, 00107000 - 2003

LOCATION.--NE1/4NE1/4 Sec. 20-21-18 W. near Taylor

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1939 - present

REMARKS.--Records from 1944 - 1946 are published in the 1980 Hydrographic Report

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	51	61	71	207	194
2							0	9.2	59	85	209	194
3							0	21	61	109	207	200
4							0	34	55	136	207	207
5							0	54	59	142	207	213
6							0	54	59	145	209	220
7							0	51	58	160	208	229
8							0	55	56	178	207	236
9							0	52	56	165	207	229
10							0	52	57	152	208	229
11							0	47	51	160	201	219
12							0	52	51	166	197	201
13							0	50	59	168	198	201
14							0	52	58	182	198	208
15							0	57	61	190	200	204
16							0	58	59	196	199	133
17							0	58	60	198	200	135
18							0	58	54	198	206	137
19							0	58	59	201	209	138
20							0	59	61	200	207	138
21							0	58	59	203	210	139
22							0	57	58	200	211	73
23							0	57	56	200	211	0
24							0	60	52	199	209	0
25							0	60	53	199	208	0
26							0	59	51	199	209	0
27							0	57	55	198	207	0
28							0	57	55	197	202	0
29					-----		0	56	54	201	197	0
30					-----		12	55	57	206	197	0
31		-----			-----		-----	58	-----	208	196	-----
TOTAL							12	1,616.2	1,704	5,412	6,348	4,077
MEAN							.40	52.1	56.8	175	205	136
MAX							12	60	61	208	211	236
MIN							0	9.2	51	71	196	0
AC-FT							24	3,210	3,380	10,730	12,590	8,090
CAL YEAR 2002	MAX	224	MIN	0	AC-FT	38,200						
WTR YEAR 2003	MAX	236	MIN	0	AC-FT	38,020						

**PLATTE RIVER BASIN
(LOUP RIVER)**

TAYLOR-ORD CANAL inlet to Mirdan Canal, 00107100 - 2003

LOCATION.--NW1/4NW1/4 Sec. 35-21-16 W. near Burwell

GAGE.--Continuous stage recorder and modified Parshall flume

PERIOD OF RECORD.--1989 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								51	39	46	121	128
2								67	41	55	118	129
3								35	41	72	119	131
4								35	42	90	120	125
5								34	40	104	121	117
6								36	40	105	123	114
7								36	43	110	123	117
8								37	42	116	121	121
9								34	42	109	125	120
10								33	39	100	130	106
11								35	40	105	129	107
12								34	31	112	117	82
13								36	39	111	121	69
14								26	41	114	118	69
15								29	43	110	119	72
16								29	42	113	123	71
17								29	45	110	118	71
18								29	41	114	113	76
19								29	43	120	116	83
20								28	43	123	116	84
21								32	43	124	114	84
22								29	44	126	114	76
23								31	42	124	115	15
24								33	39	122	118	1.8
25								32	40	125	118	0
26								33	37	125	119	0
27								34	41	127	122	0
28								33	40	120	119	0
29					-----			34	40	112	117	0
30					-----			34	37	119	119	0
31		-----			-----		-----	35	-----	119	122	-----
TOTAL								1,062	1,220	3,382	3,708	2,168.8
MEAN								34.3	40.7	109	120	72.3
MAX								67	45	127	130	131
MIN								26	31	46	113	0
AC-FT								2,110	2,420	6,710	7,350	4,300
CAL YEAR 2002	MAX	144	MIN	0	AC-FT	23,910						
WTR YEAR 2003	MAX	131	MIN	0	AC-FT	22,890						

PLATTE RIVER BASIN (LOUP RIVER)

TAYLOR-ORD CANAL outlet from Mirdan Canal, 00107200 - 2003

LOCATION.--NW1/4NW1/4 Sec. 17-20-15 W. near Elyria

GAGE.--Continuous stage recorder and modified Parshall flume

PERIOD OF RECORD.--1989 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	24	39	76	73
2								35	25	48	76	72
3								23	25	55	76	74
4								23	25	60	77	74
5								22	25	74	77	74
6								23	25	75	78	71
7								23	25	77	79	73
8								23	25	74	79	76
9								23	26	71	78	76
10								24	26	62	77	75
11								24	26	62	75	78
12								24	26	66	77	75
13								24	26	65	78	68
14								24	26	69	79	65
15								23	26	69	76	65
16								8.1	26	71	80	64
17								0	26	72	78	66
18								0	26	69	78	69
19								0	26	72	77	76
20								18	26	76	76	78
21								29	26	78	76	79
22								27	26	80	78	55
23								24	26	80	76	19
24								24	26	75	76	3.7
25								24	25	75	77	0
26								24	25	73	78	0
27								24	26	73	81	0
28								25	25	72	79	0
29					-----			25	25	73	74	0
30					-----			24	32	73	72	0
31		-----			-----		-----	24	-----	75	70	-----
TOTAL								638.1	773	2,153	2,384	1,598.7
MEAN								20.6	25.8	69.5	76.9	53.3
MAX								35	32	80	81	79
MIN								0	24	39	70	0
AC-FT								1,270	1,530	4,270	4,730	3,170
CAL YEAR 2002	MAX	91	MIN	0	AC-FT	16,210						
WTR YEAR 2003	MAX	81	MIN	0	AC-FT	14,970						

PLATTE RIVER BASIN (LOUP RIVER)

KENT CANAL from North Loup River, 00076500 - 2003

LOCATION.--NW1/4SE1/4 Sec. 26-21-17 W., Loup County

GAGE.--Continuous stage recorder and 20 foot Ramp flume

PERIOD OF RECORD.--1995 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	175	194			
2							0	173	186			
3							0	165	173			
4							0	169	169			
5							0	171	157			
6							0	174	160			
7							0	172	165			
8							0	171	165			
9							0	170	156			
10							0	176	154			
11							0	171	157			
12							0	169	163			
13							0	170	166			
14							0	176	155			
15							0	180	151			
16							0	173	151			
17							0	168	118			
18							0	170	107			
19							0	171	108			
20							0	183	107			
21							0	187	107			
22							11	183	108			
23							71	180	106			
24							115	176	106			
25							149	175	107			
26							164	177	106			
27							165	183	102			
28							170	187	99			
29					-----		170	185	67			
30					-----		172	187	17			
31		-----			-----		-----	192	-----			-----
TOTAL							1,187	5,459	3,987			
MEAN							39.6	176	133			
MAX							172	192	194			
MIN							0	165	17			
AC-FT							2,350	10,830	7,910			
CAL YEAR 2002	MAX	234	MIN	0	AC-FT	7,710						
WTR YEAR 2003	MAX	194	MIN	0	AC-FT	21,090						

PLATTE RIVER BASIN (LOUP RIVER)

CALAMUS RIVER near Harrop, 06787000 - 2003

LOCATION.--NW1/4SE1/4 Sec. 22-23-18 W., Loup County, Lat. 41° 56' 48", Long. 99° 23' 10", on the right bank 44 feet upstream from bridge on U.S. Highway 183, 12.2 miles north of Taylor.

DRAINAGE AREA.--693 square miles, most of which does not contribute directly to surface runoff.

GAGE.--Continuous stage recorder. Gage elevation is about 2,260 feet above sea level from topographic map.

PERIOD OF RECORD.--June 1978 - present (see USGS reports for other non-continuous periods).

REMARKS.--Record published by U. S. Geological Survey up to Oct. 1, 1997. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1,380 cubic feet per second May 28, 1995, gage height 4.68 feet; maximum gage height 6.78 feet February 25, 2003 due to backwater from ice; minimum daily discharge 90 cubic feet per second January 7, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge 449 cubic feet per second May 11, gage height 4.41 feet; maximum gage height 6.78 feet February 25 due to backwater from ice; minimum daily discharge 140 cubic feet per second estimated January 23 and February 25.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	244	232	253	252	271	265	340	234	257	218	221
2	240	246	235	248	262	240	259	342	240	249	216	221
3	253	262	239	251	253	238	256	346	242	235	217	218
4	284	262	238	259	230	242	251	362	257	246	219	217
5	270	259	232	264	242	230E	248	363	259	237	218	218
6	253	252	245	259	220E	248	251	361	239	237	215	216
7	241	253	252	266	210E	256	270	357	246	244	213	213
8	236	258	247	265	235	257	270	358	246	237	213	214
9	231	256	244	253	241	230E	286	385	241	298	220	220
10	238	252	244	234	240	246	305	413	236	291	363	225
11	240	239	254	223	234	253	311	438	227	267	307	224
12	240	236	256	237	232	264	294	420	291	243	253	219
13	234	239	263	255	239	268	271	390	339	234	234	214
14	230	243	262	242	244	277	270E	368	281	232	227	213
15	229	249	267	236	235	286	260E	343	265	230	224	215
16	225	242	268	210E	227	296	260E	319	265	227	221	219
17	225	241	270	200E	237	292	260E	306	310	220	222	220
18	227	237	268	240	244	307	270E	289	289	221	223	217
19	229	232	263	253	249	317	260E	283	275	228	227	215
20	233	241	248	269	252	315	270E	269	256	232	223	215
21	230	239	247	250	259	310	260E	261	283	237	220	216
22	227	239	248	190E	258	302	265	267	290	240	219	220
23	224	238	248	140E	210E	286	290	282	273	234	217	231
24	231	237	245	150E	170E	274	362	303	294	225	215	224
25	238	226	250	150E	140E	268	394	283	339	222	215	217
26	243	221	247	160E	200E	263	403	276	343	218	213	217
27	253	221	247	210E	253	279	355	264	318	229	218	215
28	260	229	255	304	261	283	313	254	290	240	218	214
29	254	241	262	291	-----	270	293	246	276	233	218	216
30	260	235	263	258	-----	264	319	240	266	223	214	218
31	246	-----	253	255	-----	269	-----	233	-----	217	216	-----
TOTAL	7,454	7,269	7,792	7,275	6,529	8,401	8,641	9,961	8,210	7,383	7,056	6,542
MEAN	240	242	251	235	233	271	288	321	274	238	228	218
MAX	284	262	270	304	262	317	403	438	343	298	363	231
MIN	224	221	232	140	140	230	248	233	227	217	213	213
AC-FT	14,790	14,420	15,460	14,430	12,950	16,660	17,140	19,760	16,280	14,640	14,000	12,980
CAL YEAR 2002	TOTAL	91,793	MEAN	251	MAX	371	MIN	202	AC-FT	182,100		
WTR YEAR 2003	TOTAL	92,513	MEAN	253	MAX	438	MIN	140	AC-FT	183,500		

E indicates estimated discharge.

PLATTE RIVER BASIN (LOUP RIVER)

CALAMUS RESERVOIR from Calamus River, 06787300 - 2003

LOCATION.--NE1/4SW1/4 Sec. 31-22-16 W., Garfield County, Lat. 41° 49' 38", Long. 99° 13' 11", near right bank in control house of outlet works of Calamus Dam on Calamus River, 4 miles upstream from mouth, 5.5 miles northwest of Burwell.

GAGE.--Continuous stage recorder. Gage datum is sea level.

PERIOD OF RECORD.--1985 - present

STORAGE LEVEL	ELEVATION	CONTENT
Top of conservation pool	(Feet)	(Acre-feet)
Top of dead storage pool	2,244.0	127,400
	2,185.0	817

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54,910	70,870	89,100	104,000	119,000	122,100	134,000	132,200	126,700	126,900	98,950	64,140
2	54,940	71,580	89,790	104,600	119,500	122,600	134,200	132,100	126,900	126,600	97,780	63,090
3	54,810	72,220	90,200	105,000	120,100	123,200	134,500	131,900	126,900	126,300	96,540	61,880
4	55,690	72,720	90,430	105,800	120,500	123,800	133,900	132,100	126,900	125,500	95,430	60,590
5	55,240	73,400	91,340	106,100	120,900	124,400	133,600	132,200	126,900	125,300	94,420	59,260
6	55,690	74,080	91,960	106,600	121,100	125,200	133,600	131,900	126,900	124,700	93,370	57,940
7	55,300	74,730	92,580	107,100	121,000	125,600	133,700	131,900	129,900	124,300	92,210	56,700
8	55,940	75,420	93,330	107,600	121,000	126,400	133,600	131,800	126,900	123,500	90,930	55,510
9	56,420	75,720	93,870	108,100	121,100	126,700	133,600	131,800	126,900	122,800	89,910	54,330
10	56,950	76,340	94,380	108,500	121,100	127,300	133,600	131,100	127,000	122,400	89,180	53,000
11	57,660	77,190	95,010	109,000	121,100	128,000	133,500	130,900	126,900	12,160	88,740	52,730
12	58,340	77,820	95,640	109,400	121,100	128,800	133,200	130,200	126,900	123,900	88,380	51,770
13	58,910	78,420	96,280	109,800	121,200	129,300	132,900	130,200	127,000	120,000	87,730	51,190
14	59,450	79,090	96,880	110,400	121,200	129,900	132,700	129,200	127,400	119,300	86,780	50,330
15	59,960	79,730	97,520	110,900	121,200	130,400	132,500	128,700	127,400	118,400	85,950	49,670
16	60,560	80,340	98,040	111,300	121,300	130,900	132,500	128,600	127,400	117,200	84,770	49,190
17	61,170	80,950	98,600	111,700	121,200	131,800	132,200	128,300	127,600	116,400	83,680	48,600
18	61,780	81,670	97,310	112,200	121,300	132,100	132,100	128,400	127,700	115,000	82,860	48,550
19	62,470	82,090	97,780	112,800	121,400	132,600	131,900	128,800	127,500	113,800	81,520	48,240
20	63,020	82,670	98,910	113,200	121,500	133,300	131,800	128,100	127,000	112,600	80,260	48,490
21	63,650	83,440	98,820	113,700	121,600	133,200	131,400	127,800	127,100	111,700	79,130	48,490
22	64,110	83,830	99,120	114,200	121,500	133,500	131,100	127,900	127,500	110,500	77,520	48,490
23	64,670	84,400	99,690	114,600	121,500	133,500	131,000	128,000	127,700	108,900	75,790	48,490
24	65,380	84,710	100,000	115,000	121,500	133,900	132,000	127,900	128,100	108,000	74,590	48,490
25	66,080	85,510	100,400	115,500	121,300	133,900	132,000	127,500	128,200	106,800	73,430	48,490
26	66,730	86,220	101,100	116,000	121,300	133,800	132,200	127,400	127,700	105,600	72,040	48,490
27	67,510	86,700	101,500	116,300	121,400	134,300	132,400	126,900	127,700	104,700	70,730	48,490
28	68,020	87,380	102,000	117,000	121,500	134,200	132,600	127,000	127,700	103,600	69,470	48,490
29	68,680	88,100	102,600	117,500	-----	133,800	132,100	126,900	127,500	102,500	67,880	48,210
30	69,510	88,580	103,300	118,100	-----	133,800	132,600	127,100	127,400	101,300	66,660	48,490
31	70,070	-----	103,600	118,600	-----	133,900	-----	126,900	-----	99,490	65,140	-----
MAX	70,070	88,580	989,170	118,600	121,600	134,300	134,500	132,200	129,900	126,900	98,950	64,140
MIN	54,810	70,870	89,100	104,000	119,000	122,100	131,000	126,900	126,700	12,160	65,140	48,210
CHANGE	15,190	18,510	15,020	15,000	2,900	12,400	-1,300	-5,700	500	-27,910	-34,350	-16,650
CAL YEAR 2002			MEAN	100,439	MAX	989,170	MIN	54,700				
WTR YEAR 2003			MEAN	105,465	MAX	989,170	MIN	12,160				

PLATTE RIVER BASIN (LOUP RIVER)

MIRDAN CANAL from Calamus Reservoir, 00100500 - 2003

LOCATION.--NE1/4NW1/4 Sec. 6-21-16 W. near Burwell

GAGE.--Continuous stage recorder and 30 ft. Parshall flume

PERIOD OF RECORD.--1987 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	95	139	223	604	493
2							27	94	139	242	554	500
3							169	94	139	258	554	536
4							212	87	139	269	549	583
5							207	81	141	279	558	571
6							203	83	139	310	577	552
7							198	81	139	361	601	548
8							193	81	141	413	586	538
9							184	81	139	364	521	503
10							273	81	139	336	411	475
11							373	80	138	366	314	399
12							448	87	138	384	283	329
13							428	84	137	373	421	322
14							417	79	137	454	456	321
15							412	88	137	519	507	318
16							396	88	138	572	556	268
17							393	78	139	606	560	195
18							383	74	137	611	595	40
19							375	82	106	558	608	0
20							369	141	98	562	602	0
21							373	141	95	593	612	0
22							371	141	92	592	620	0
23							246	142	82	583	551	0
24							188	143	88	595	537	0
25							138	143	90	581	568	0
26							118	140	94	547	609	0
27							114	139	100	527	599	0
28							111	139	100	575	585	0
29					-----		106	139	139	621	582	0
30					-----		100	139	199	636	533	0
31		-----			-----		-----	139	-----	630	503	-----
TOTAL							7,525	3,284	3,778	14,540	16,716	7,491
MEAN							251	106	126	469	539	250
MAX							448	143	199	636	620	583
MIN							0	74	82	223	283	0
AC-FT							14,930	6,510	7,490	28,840	33,160	14,860
CAL YEAR 2002	MAX	676	MIN	0	AC-FT	97,030						
WTR YEAR 2003	MAX	636	MIN	0	AC-FT	105,800						

PLATTE RIVER BASIN (LOUP RIVER)

CALAMUS FISH HATCHERY INLET from Calamus Reservoir, 00019800 - 2003

LOCATION.--NE1/4NW1/4 Sec. 6-21-16 W.

GAGE.--Flow meter

PERIOD OF RECORD.--1994 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	7.8	9.7	9.5	10	5.0	3.5	14	7.9	12	18	12
2	16	7.7	9.6	9.6	10	5.1	4.6	14	8.0	10	18	14
3	16	7.6	9.6	9.5	10	5.6	4.7	13	8.2	10	18	13
4	16	7.6	9.6	9.5	10	5.4	4.2	13	11	10	17	13
5	18	7.6	9.6	9.6	10	5.5	4.2	13	15	10	16	13
6	18	7.6	9.6	9.6	9.9	0	4.0	15	13	9.2	16	13
7	15	7.7	9.5	9.4	10	0	4.0	15	13	8.7	16	11
8	13	7.7	9.6	9.6	9.9	0	3.5	15	13	11	16	9.9
9	13	8.2	9.6	9.8	10	0	2.7	15	15	14	16	11
10	12	9.1	9.6	9.7	9.1	0	3.4	14	14	16	17	12
11	12	9.0	9.6	9.7	8.0	0	4.1	14	15	17	16	12
12	12	9.1	9.6	9.7	7.3	0	3.5	12	15	14	17	13
13	12	9.0	9.6	9.7	5.2	0	3.5	9.6	15	14	17	13
14	12	9.1	9.6	9.8	5.2	0	5.8	10	15	14	17	12
15	12	9.0	9.5	9.8	5.2	0	8.5	10	15	15	17	12
16	12	9.0	9.6	9.8	5.2	0	9.8	9.4	15	15	17	11
17	12	9.0	9.4	9.9	5.1	2.0	10	11	16	15	17	14
18	12	9.0	9.4	10	5.2	2.0	10	12	13	16	17	15
19	12	8.8	9.5	9.9	5.2	2.0	9.4	11	12	14	17	16
20	12	8.8	9.5	9.9	5.4	2.0	9.5	12	13	16	17	16
21	12	8.8	9.4	10	5.1	2.0	10	13	14	16	17	14
22	12	8.8	9.4	9.9	5.0	2.0	5.5	14	14	16	15	12
23	12	8.9	9.4	10	5.1	2.0	4.8	13	16	18	14	13
24	12	8.6	9.5	10	5.1	2.0	6.6	13	18	18	14	13
25	12	9.1	9.5	9.9	7.8	2.0	6.7	13	18	18	15	14
26	12	9.4	9.4	10	5.2	2.0	8.7	12	14	18	16	14
27	12	9.5	9.4	9.9	5.2	2.0	13	9.9	14	18	16	14
28	12	9.6	9.0	9.9	5.2	2.0	11	8.8	17	17	16	14
29	12	9.6	5.0	10	-----	2.0	12	8.4	15	16	14	11
30	7.8	9.5	9.5	10	-----	2.0	14	7.9	12	16	13	9.9
31	5.41	-----	9.5	10	-----	2.0	-----	7.5	-----	17	-----	-----
TOTAL	394.2	260.2	290.3	303.6	199.6	56.6	205.2	372.5	414.1	448.9	499	384.8
MEAN	12.7	8.67	9.36	9.79	7.13	1.83	6.84	12.0	13.8	14.5	16.1	12.8
MAX	18	9.6	9.7	10	10	5.6	14	15	18	18	18	16
MIN	5.4	7.6	5.0	9.4	5.0	0	2.7	7.5	7.9	8.7	12	9.9
AC-FT	782	516	576	602	396	112	407	739	821	890	990	763
CAL YEAR 2002	TOTAL	3,421.20	MEAN	9.37	MAX	20	MIN	3.8	AC-FT	6,790		
WTR YEAR 2003	TOTAL	3,829.00	MEAN	10.5	MAX	18	MIN	0	AC-FT	7,590		

PLATTE RIVER BASIN (LOUP RIVER)

INLET TO DAVIS CREEK RESERVOIR from Mirdan Canal, 00088500 - 2003

LOCATION.--SE1/4NE1/4 Sec. 15-17-13 W. near North Loup

GAGE.--Continuous stage recorder and modified Parshall Flume

PERIOD OF RECORD.--1991 to present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	250	242	129	149	166
2							0	248	241	127	150	168
3							0	248	243	121	154	156
4							0	249	238	124	160	145
5							0	250	227	127	161	141
6							0	250	225	123	149	148
7							0	249	225	128	143	168
8							0	248	226	134	141	170
9							0	248	226	132	140	172
10							28	250	227	128	155	179
11							166	251	227	130	159	212
12							233	251	226	140	148	230
13							236	252	225	143	154	224
14							239	251	224	145	165	224
15							246	251	223	154	168	225
16							247	248	223	156	158	188
17							250	248	197	159	152	135
18							249	250	178	150	148	77
19							250	250	151	152	144	46
20							249	250	130	160	145	39
21							249	247	130	159	147	36
22							248	245	128	158	145	33
23							249	246	128	161	153	32
24							250	248	129	162	161	31
25							251	248	129	160	162	31
26							251	248	129	160	158	31
27							250	248	130	169	150	28
28							249	247	130	159	150	18
29					-----		248	247	130	139	149	7.7
30					-----		251	246	129	141	145	1.7
31		-----			-----		-----	246	-----	148	163	-----
TOTAL							4,889	7,708	5,616	4,478	4,726	3,462.4
MEAN							163	249	187	144	152	115
MAX							251	252	243	169	168	230
MIN							0	245	128	121	140	1.7
AC-FT							9,700	15,290	11,140	8,880	9,370	6,870
CAL YEAR 2002	MAX	252	MIN	0	AC-FT	46,420						
WTR YEAR 2003	MAX	252	MIN	0	AC-FT	61,250						

PLATTE RIVER BASIN (LOUP RIVER)

DAVIS CREEK RESERVOIR from Calamus Reservoir via Mirdan Canal, 06789400 - 2003

LOCATION.--NW1/4SW1/4 Section 30-17-12 W.

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1992 to present

STORAGE LEVEL	ELEVATION (Feet)	CONTENT (Acre-feet)
Top of irrigation pool	2076.0	31,158
Top of inactive pool	2003.0	172
Top of dead storage pool	1998.5	76

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,380	6,550	6,620	6,340	6,210	6,110	5,950	15,330	26,750	31,720	20,410	10,210
2	6,410	6,550	6,620	6,320	6,210	6,110	5,940	15,760	27,070	31,720	19,980	9,990
3	6,340	6,550	6,620	6,320	6,210	6,100	5,930	16,110	27,310	31,630	19,680	9,810
4	6,330	6,550	6,620	6,320	6,200	6,100	5,920	16,600	27,590	31,510	19,420	9,510
5	6,350	6,580	6,450	6,310	6,190	6,090	5,920	17,180	27,870	31,280	19,110	9,240
6	6,400	6,590	6,470	6,310	6,190	6,080	5,930	17,540	28,140	31,060	18,760	8,960
7	6,440	6,630	6,470	6,300	6,180	6,080	5,930	17,990	28,400	30,780	18,230	8,720
8	6,410	6,630	6,460	6,290	6,180	6,070	5,920	18,430	28,660	30,330	17,930	8,520
9	6,370	6,630	6,450	6,280	6,180	6,060	5,910	18,800	28,900	29,920	17,560	8,410
10	6,450	6,640	6,450	6,270	6,180	6,060	5,910	18,260	29,230	29,620	17,190	8,340
11	6,560	6,640	6,440	6,270	6,170	6,050	6,000	19,700	29,450	29,170	17,070	8,720
12	6,500	6,640	6,440	6,270	6,170	6,050	6,470	20,120	29,690	28,820	16,940	8,970
13	6,510	6,640	6,430	6,260	6,160	6,040	6,890	20,570	29,920	28,500	16,680	9,260
14	6,530	6,620	6,430	6,260	6,160	6,040	7,340	21,050	30,210	28,170	16,510	9,560
15	6,520	6,620	6,420	6,260	6,160	6,040	7,770	21,420	30,420	27,520	16,290	9,860
16	6,510	6,620	6,420	6,260	6,160	6,040	8,290	21,830	30,690	27,100	16,150	10,170
17	6,510	6,620	6,420	6,260	6,160	6,040	8,780	22,320	30,900	26,670	15,890	10,390
18	6,500	6,620	6,420	6,250	6,160	6,030	9,250	22,690	31,070	26,240	15,560	10,510
19	6,510	6,620	6,420	6,250	6,150	6,030	9,720	23,100	31,210	25,880	15,090	10,560
20	6,510	6,620	6,410	6,240	6,150	6,020	10,260	23,350	31,280	25,410	14,620	10,620
21	6,500	6,620	6,390	6,240	6,150	6,020	10,660	23,620	31,310	24,870	14,180	10,680
22	6,490	6,620	6,390	6,240	6,150	6,020	11,270	23,920	31,360	24,430	13,710	10,730
23	6,480	6,620	6,370	6,230	6,140	6,010	11,580	24,210	31,430	23,980	13,320	10,780
24	6,460	6,620	6,370	6,230	6,130	6,000	12,020	24,520	31,490	23,550	12,970	10,840
25	6,440	6,620	6,360	6,220	6,120	6,000	12,420	24,800	31,590	23,240	12,620	10,860
26	6,460	6,620	6,360	6,220	6,120	6,000	12,930	25,080	31,590	22,840	12,240	10,920
27	6,520	6,620	6,350	6,210	6,110	5,990	13,370	25,350	31,620	22,500	11,810	10,940
28	6,530	6,620	6,350	6,210	6,110	5,980	13,860	25,670	31,720	22,080	11,380	10,960
29	6,540	6,620	6,350	6,210	-----	5,970	14,270	25,940	31,720	21,680	10,970	10,970
30	6,550	6,620	6,340	6,210	-----	5,960	14,910	26,230	31,710	21,270	10,610	10,970
31	6,550	-----	6,340	6,210	-----	5,950	-----	26,480	-----	20,750	10,380	-----
MAX	6,560	6,640	6,620	6,340	6,210	6,110	14,910	26,480	31,720	31,720	20,410	10,970
MIN	6,330	6,550	6,340	6,210	6,110	5,950	5,910	15,330	26,750	20,750	10,380	8,340
CHANGE	50.0	70.0	-280	-130	-100	-160	8,960	11,570	5,230	-10,960	-10,370	590
CAL YEAR 2002			MEAN	13,509	MAX	30,800	MIN	5,730				
WTR YEAR 2003			MEAN	12,603	MAX	31,720	MIN	5,910				

PLATTE RIVER BASIN (LOUP RIVER)

FULLERTON CANAL from Davis Creek Reservoir, 00054700 - 2003

LOCATION.--SW1/4SW1/4 Sec. 30-17-13 W.

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1992 to present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	64	92	353	246
2								0	64	111	292	261
3								0	64	147	277	282
4								0	64	176	289	279
5								0	64	191	304	273
6								0	64	209	333	267
7								0	64	283	334	267
8								0	64	289	312	231
9								0	65	307	303	211
10								0	66	284	274	180
11								0	67	272	212	122
12								0	67	272	215	73
13								0	66	292	233	68
14								0	67	336	239	67
15								0	67	355	248	67
16								0	67	355	262	63
17								0	67	353	287	59
18								0	67	352	346	17
19								34	67	353	367	0
20								60	67	352	362	0
21								60	67	351	354	0
22								61	69	351	341	0
23								62	70	353	325	0
24								62	70	352	322	0
25								63	68	342	341	0
26								63	68	314	356	0
27								63	69	300	355	0
28								63	86	309	346	0
29					-----			63	93	326	324	0
30					-----			63	92	345	265	0
31		-----			-----		-----	64	-----	381	247	-----
TOTAL								781	2,064	9,105	9,418	3,033
MEAN								25.2	68.8	294	304	101
MAX								64	93	381	367	282
MIN								0	64	92	212	0
AC-FT								1,550	4,090	18,060	18,680	6,020
CAL YEAR 2002	MAX	381	MIN	0	AC-FT	47,930						
WTR YEAR 2003	MAX	381	MIN	0	AC-FT	48,400						

PLATTE RIVER BASIN (LOUP RIVER)

CALAMUS RIVER near Burwell, 06787500 - 2003

LOCATION.--NW1/4NW1/4 Sec. 9-21-16 W., Garfield County, Lat. 41° 48' 35", Long. 99° 10' 56", on left bank 20 feet downstream from highway bridge, 1.5 mile upstream from mouth, and 3 miles north west of Burwell and 1.1 mile downstream from the Calamus Dam.

DRAINAGE AREA.--1,060 square miles, of which 110 square miles contribute directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,152.48 feet above sea level.

PERIOD OF RECORD.--October 1940 - present (non-recording gage up to April 21, 1945).

REMARKS.--Record published by U. S. Geological Survey up to Oct. 1, 1995. Records are good.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1,790 cubic feet per second May 4, 1964, gage height 7.35 feet; maximum gage height 8.90 feet January 26, 1967 due to backwater from ice; minimum daily discharge 13 cubic feet per second April 27, 1986, due to temporary closure of Calamus Dam.

EXTREMES FOR CURRENT YEAR.--Peak discharge 994 cubic feet per second December 17, gage height 4.65 feet; minimum daily discharge 19 cubic feet per second November 14.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	312	22	24	61	66	33	326	427	146	291	280	360
2	293	22	24	60	67	31	327	417	135	289	283	360
3	304	22	24	61	83	30	330	406	134	280	285	357
4	327	20	24	61	129	29	324	420	132	281	286	355
5	341	20	24	60	182	30	296	421	132	278	285	353
6	337	22	24	61	240	29	290	405	137	278	285	353
7	243	22	24	62	292	29	320	444	147	274	284	352
8	35	21	24	63	311	29	307	538	147	271	284	351
9	29	21	24	62	313	29	285	613	140	274	288	328
10	26	21	24	61	308	29	279	589	158	270	299	314
11	26	21	25	62	300	28	269	602	144	273	291	314
12	25	24	25	62	295	28	246	545	149	321	291	315
13	25	22	24	62	298	30	212	541	148	324	291	314
14	24	19	24	67	304	38	195	543	163	325	289	312
15	23	26	25	68	303	54	176	455	173	290	284	312
16	21	25	30	68	302	77	230	382	174	273	287	315
17	22	23	704	67	301	98	184	318	210	271	286	308
18	22	21	336	64	304	128	155	295	240	272	281	308
19	21	20	56	64	302	186	164	358	235	275	278	310
20	21	22	53	64	297	223	172	261	202	287	363	308
21	21	22	55	64	295	217	117	172	184	305	388	309
22	21	23	56	68	307	234	101	257	190	311	385	311
23	21	24	57	68	306	251	103	340	245	307	386	308
24	22	24	58	65	303	265	139	381	281	286	383	307
25	23	23	59	65	306	267	242	380	342	277	378	302
26	23	23	59	66	309	267	297	348	296	278	374	300
27	23	23	58	67	311	327	332	227	282	278	374	300
28	24	24	58	65	165	367	394	165	284	278	371	299
29	23	24	60	66	-----	332	413	160	231	278	371	298
30	21	23	60	66	-----	317	428	167	226	277	368	295
31	22	-----	61	67	-----	324	-----	164	-----	273	367	-----
TOTAL	2,721	669	2,183	1,987	7,299	4,356	7,653	11,741	5,807	8,845	9,945	9,628
MEAN	87.8	22.3	70.4	64.1	261	141	255	379	194	285	321	321
MAX	341	26	704	68	313	367	428	613	342	325	388	360
MIN	21	19	24	60	66	28	101	160	132	270	278	295
AC-FT	5,400	1,330	4,330	3,940	14,480	8,640	15,180	23,290	11,520	17,540	19,730	19,100
CAL YEAR 2002	TOTAL	71,063	MEAN	195	MAX	704	MIN	19	AC-FT	141,000		
WTR YEAR 2003	TOTAL	72,834	MEAN	200	MAX	704	MIN	19	AC-FT	144,500		

PLATTE RIVER BASIN (LOUP RIVER)

BURWELL-SUMTER CANAL from North Loup River, 00108000 - 2003

LOCATION.--NE1/4NW1/4 Sec. 19-21-15 W. near Burwell

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1939 - present

REMARKS.--Records for 1944 - 1946 are published in the 1980 Hydrographic Report

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	2.7	39	55	112	105
2							0	0	41	64	113	105
3							0	0	41	71	111	107
4							0	0	42	72	113	108
5							0	0	39	73	109	108
6							0	0	40	73	106	109
7							0	0	40	77	108	107
8							0	0	38	87	107	103
9							0	0	41	92	106	103
10							0	0	48	89	106	102
11							0	.47	46	85	106	74
12							0	30	43	89	108	49
13							0	14	37	88	110	50
14							0	15	39	101	107	53
15							0	16	39	104	109	54
16							0	19	37	113	110	47
17							0	20	38	114	108	41
18							0	23	37	116	108	41
19							0	26	37	119	111	40
20							0	23	39	114	106	41
21							0	24	40	114	107	43
22							0	27	41	109	111	44
23							0	25	41	111	111	43
24							0	24	44	113	110	43
25							0	24	42	109	107	45
26							0	26	40	108	105	46
27							0	24	35	114	104	48
28							51	25	43	111	106	49
29					-----		96	32	43	111	107	45
30					-----		36	39	51	110	106	16
31		-----			-----		-----	39	-----	114	107	-----
TOTAL							183	498.17	1,221	3,020	3,355	1,969
MEAN							6.10	16.1	40.7	97.4	108	65.6
MAX							96	39	51	119	113	109
MIN							0	0	35	55	104	16
AC-FT							363	988	2,420	5,990	6,650	3,910
CAL YEAR 2002	MAX	123	MIN	0	AC-FT	23,030						
WTR YEAR 2003	MAX	119	MIN	0	AC-FT	20,320						

PLATTE RIVER BASIN (LOUP RIVER)

NORTH LOUP RIVER at Ord, 06788500 - 2003

LOCATION.--SW1/4NW1/4 Sec. 22-19-14 W., Valley County, Lat. 41° 36' 27", Long. 98° 55' 17", on right bank 150 feet downstream from bridge on State Highway 70 at Ord.

DRAINAGE AREA.--3,760 square miles, of which 702 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,012.14 feet above sea level.

PERIOD OF RECORD.--Nov. 1936 - Sep. 1938, (published as "near Ord"), June 1952 - present

REMARKS.--Record published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except estimated record are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 10,100 cubic feet per second June 2, 1962, gage height 5.52 feet; maximum gage height 6.74 feet February 11, 1993 due to backwater from ice; minimum daily discharge 100 cubic feet per second January 3, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,860 cubic feet per second May 10, gage height 3.13 feet; maximum gage height 4.24 feet January 26 due to backwater from ice; minimum daily discharge 428 cubic feet per second July 18.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	874	831	796	705	800E	837	947	1,020	466	846	469	633
2	913	807	748	674	820E	762	936	979	456	787	471	646
3	1,010	798	772	694	800E	852	957	1,010	487	735	495	626
4	1,110	812	774	717	840E	804	925	1,160	547	726	516	602
5	958	800	767	714	900E	531	947	1,220	560	713	510	624
6	951	775	713	679	840E	648	948	1,350	538	695	493	616
7	891	785	745	677	800E	735	962	1,050	565	641	498	599
8	573	726	711	677	800E	740E	1,010	1,220	620	622	503	585
9	539	750	708	657	860E	660E	1,030	1,450	575	821	541	596
10	550	781	697	594	920E	640E	1,020	1,640	740	793	763	603
11	560	799	729	526	980E	700E	1,000	1,580	644	736	662	827
12	565	756	720	568	1,000E	720	1,010	1,440	536	686	567	848
13	606	769	787	689	940E	706	981	1,400	555	687	561	733
14	584	775	827	731	980E	673	918	1,380	574	626	585	730
15	617	800	808	700E	980E	719	882	1,250	640	556	558	745
16	655	771	765	740E	980E	797	1,110	1,020	612	451	507	743
17	643	747	1,020	680E	940E	849	1,070	919	638	455	489	754
18	633	761	1,350	640E	940	933	927	766	840	428	476	751
19	642	792	865	600E	908	1,030	972	797	749	460	453	783
20	667	817	799	640E	900	1,100	937	850	683	495	508	771
21	688	810	796	700E	882	1,030	870	624	676	527	600	788
22	714	816	802	720E	973	997	779	583	679	682	581	831
23	717	744	803	700E	1,040E	979	812	769	841	559	590	957
24	742	743	783	680E	940E	981	1,030	920	903	516	584	961
25	732	742	815	640E	900E	1,020	1,100	855	916	500	549	904
26	764	659	854	620E	860E	1,020	929	875	1,030	488	562	856
27	835	606	903	660E	800E	998	918	878	784	471	564	858
28	879	716	924	700E	820E	1,050	842	601	648	536	571	867
29	862	724	818	740E	-----	1,090	823	537	669	520	544	879
30	905	770	729	760E	-----	1,010	1,110	506	627	482	549	984
31	891	-----	669	780E	-----	1,000	-----	491	-----	484	597	-----
TOTAL	23,270	22,982	24,997	21,002	25,143	26,611	28,702	31,140	19,798	18,724	16,916	22,700
MEAN	751	766	806	677	898	858	957	1,005	660	604	546	757
MAX	1,110	831	1,350	780	1,040	1,100	1,110	1,640	1,030	846	763	984
MIN	539	606	669	526	800	531	779	491	456	428	453	585
AC-FT	46,160	45,580	49,580	41,660	49,870	52,780	56,930	61,770	39,270	37,140	33,550	45,030
CAL YEAR 2002	TOTAL	272,993	MEAN	748	MAX	2,230	MIN	271	AC-FT	541,500		
WTR YEAR 2003	TOTAL	281,985	MEAN	773	MAX	1,640	MIN	428	AC-FT	559,300		

E indicates estimated discharge.

PLATTE RIVER BASIN (LOUP RIVER)

ORD-NORTH LOUP CANAL from North Loup River, 00109000 - 2003

LOCATION.--NW1/4NE1/4 Sec. 36-14-19 W. near Ord

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1939 - present

REMARKS.--Records from 1944 - 1946 are published in the 1980 Hydrographic Report.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	26	34	109	97
2								0	27	33	111	87
3								0	27	44	113	87
4								0	28	48	112	89
5								0	29	50	106	90
6								0	27	50	108	90
7								0	28	55	110	90
8								0	28	60	111	89
9								0	27	66	112	84
10								0	24	66	104	71
11								0	24	78	89	50
12								0	33	94	88	33
13								.87	32	106	87	28
14								55	33	108	88	27
15								51	33	104	86	27
16								27	31	116	93	21
17								27	33	124	103	0
18								27	33	117	101	0
19								28	32	124	100	0
20								29	32	121	102	0
21								30	32	115	105	0
22								27	33	107	108	0
23								27	33	106	108	0
24								28	34	109	106	0
25								24	35	115	98	0
26								27	36	119	93	0
27								29	32	117	96	0
28								26	32	120	102	0
29					-----			31	35	112	100	0
30					-----			29	33	115	100	0
31		-----			-----		-----	27	-----	109	103	-----
TOTAL								549.87	922	2,842	3,152	1,060
MEAN								17.7	30.7	91.7	102	35.3
MAX								55	36	124	113	97
MIN								0	24	33	86	0
AC-FT								1,090	1,830	5,640	6,250	2,100
CAL YEAR 2002	MAX	130	MIN	0	AC-FT	18,150						
WTR YEAR 2003	MAX	124	MIN	0	AC-FT	16,910						

PLATTE RIVER BASIN (LOUP RIVER)

MIRA CREEK near North Loup, 06788988 - 2003

LOCATION.--NW1/4SE1/4 Sec. 7-18-13 W., Valley County, Lat. 41° 30' 09", Long. 98° 47' 47", on left bank near the half section line road running west from Highway 11, 1.4 mile northwest of North Loup.

DRAINAGE AREA.--65.1 Square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,964.41 feet above sea level.

PERIOD OF RECORD.--1979 - present

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1993. Records are fair.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 3,460 cubic feet per second August 5, 1981, gage height 10.56 feet, based on indirect measurement; no flow at times in 1980-81.

EXTREMES FOR CURRENT YEAR.--Peak discharge 851 cubic feet per second September 11, gage height 6.08 feet; minimum daily discharge 0.38 cubic feet per second October 18.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	1.4	1.5	1.7	2.3	1.8	2.3	25	3.1	9.7	14	14
2	.70	1.7	1.6	1.7	2.6	1.7	2.0	20	5.4	9.0	15	14
3	3.9	1.7	1.6	1.5	2.4	1.7	2.1	15	6.3	9.0	15	14
4	9.5	1.6	1.7	1.7	2.6	1.6	2.4	16	7.2	8.9	15	13
5	5.9	1.5	1.5	1.6	2.5	1.7	2.0	17	7.9	8.8	14	12
6	3.2	1.4	1.7	1.7	2.4	2.0	2.5	15	8.4	9.3	14	13
7	1.7	.95	1.9	1.6	3.2	2.2	3.5	12	8.7	8.0	14	13
8	1.3	.95	1.8	1.7	2.9	2.3	3.6	10	9.4	7.7	14	12
9	1.3	.87	1.7	1.6	2.2	2.2	4.0	9.5	9.9	12	15	11
10	1.0	.75	1.3	1.7	2.1	2.4	6.1	9.3	19	12	25	13
11	.87	.86	1.4	1.7	2.1	2.6	6.6	12	22	14	24	431
12	.79	.78	1.4	1.5	1.7	2.6	5.6	10	18	13	23	252
13	.73	.83	1.4	1.5	1.7	2.6	4.7	8.4	16	11	19	120
14	.70	.83	1.6	1.3	2.2	2.7	4.2	8.1	15	10	16	38
15	.58	.88	1.6	1.4	2.2	2.8	3.5	8.1	13	10	14	22
16	.59	.95	1.6	1.2	2.4	3.4	4.6	7.2	12	9.1	14	18
17	.49	1.0	1.7	1.7	2.5	3.6	4.7	6.6	11	8.2	15	13
18	.38	1.1	1.7	2.1	2.6	4.1	5.0	5.6	11	8.1	14	12
19	.43	.93	1.7	2.1	2.4	4.5	7.5	5.1	11	8.2	15	9.3
20	.42	.88	1.5	1.8	2.1	4.7	5.0	4.1	10	9.9	15	7.9
21	.49	.86	1.7	1.8	2.2	4.4	5.1	3.6	9.5	10	15	7.0
22	.49	.96	1.3	1.8	2.1	4.1	3.8	3.5	11	11	16	5.6
23	.60	1.1	1.3	1.7	1.5	4.0	4.2	3.8	34	11	16	4.3
24	.65	1.1	1.2	1.7	3.6	4.2	13	4.7	25	11	16	3.5
25	.65	1.2	1.1	1.7	3.8	3.5	9.2	5.3	20	12	15	3.2
26	.62	1.4	1.1	1.6	3.0	2.7	7.8	5.5	21	12	15	2.9
27	.70	1.3	1.1	1.6	1.7	2.9	6.4	4.9	14	12	15	2.7
28	1.1	1.4	1.2	1.7	1.6	3.9	5.0	5.0	13	12	15	2.4
29	1.1	1.6	1.5	1.5	-----	3.7	4.5	5.5	12	13	14	2.2
30	1.4	1.5	1.4	1.7	-----	3.3	29	4.0	11	13	14	2.3
31	1.5	-----	1.4	2.0	-----	2.7	-----	3.2	-----	14	14	-----
TOTAL	44.20	34.28	46.2	51.6	66.6	92.6	169.9	273.0	394.8	326.9	489	1,088.3
MEAN	1.43	1.14	1.49	1.66	2.38	2.99	5.66	8.81	13.2	10.5	15.8	36.3
MAX	9.5	1.7	1.9	2.1	3.8	4.7	29	25	34	14	25	431
MIN	.38	.75	1.1	1.2	1.5	1.6	2.0	3.2	3.1	7.7	14	2.2
AC-FT	88	68	92	102	132	184	337	541	783	648	970	2,160
CAL YEAR 2002 TOTAL		1,524.26	MEAN	4.18	MAX	17	MIN	.38	AC-FT	3,020		
WTR YEAR 2003 TOTAL		3,077.38	MEAN	8.43	MAX	431	MIN	.38	AC-FT	6,100		

PLATTE RIVER BASIN (LOUP RIVER)

CEDAR RIVER near Spalding, 06791500 - 2003

LOCATION.--NE1/4NE1/4 Sec. 15-20-10 W., Greeley County, Lat. 41° 42' 41", Long. 98° 26' 48", on left bank 15 feet downstream from county road bridge, 0.4 miles upstream from small tributary and 4.7 miles northwest of Spalding.

DRAINAGE AREA.--762 square miles, approximately 50 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 1,896.24 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--Oct. 1944 - Sep. 1953, Oct. 1957 - present

REMARKS.--Record published by U. S. Geological Survey up to October 1, 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 4,000 cubic feet per second on June 23, 1947, gage height 7.50 feet; minimum daily discharge 30 cubic feet per second January 30, 1946.

EXTREMES FOR CURRENT YEAR.--Peak discharge 348 cubic feet per second on July 10, gage height 4.14 feet; minimum daily discharge 84 cubic feet per second July 18.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	157	157	156	150E	162	158	240	136	147	122	99
2	146	156	160	156	140E	155	161	253	145	144	124	143
3	151	157	159	156	140E	152	160	265	144	134	124	157
4	183	159	161	156	135E	153	158	303	143	135	126	112
5	191	158	163	157	135E	147	156	320	145	137	127	98
6	176	160	172	156	140E	154	156	326	144	160	122	96
7	162	161	165	156	130E	156	164	319	148	150	119	95
8	158	159	166	157	130E	152	172	293	153	148	116	97
9	157	158	166	157	135E	149	179	262	156	187	110	106
10	152	157	166	153	135E	144	183	269	149	274	121	119
11	151	155	165	153	145E	146	185	306	136	182	129	151
12	152	154	166	162	156	152	188	309	159	163	127	155
13	149	155	166	156	159	150	184	317	193	156	120	141
14	148	137	166	155	164	153	171	294	209	153	118	129
15	147	149	166	153	166	157	164	251	215	195	116	130
16	149	165	167	150E	165	161	165	219	195	132	116	132
17	151	156	167	155E	170	162	181	198	176	98	115	136
18	154	155	165	155E	171	172	239	180	170	84	112	140
19	153	154	166	150E	175	186	248	171	171	86	113	137
20	152	157	163	145E	184	190	229	167	157	106	112	141
21	150	157	163	140E	185	182	219	166	150	122	121	136
22	151	156	162	135E	181	180	199	163	148	126	117	138
23	153	154	163	130E	170E	175	187	174	163	127	115	136
24	155	152	155E	135E	160E	165	196	187	160	124	111	135
25	156	150	150E	135E	150E	161	202	181	165	117	105	133
26	158	153	160E	140E	155E	160	218	172	168	112	106	131
27	164	159	160E	145E	155E	168	221	164	159	116	108	131
28	169	158	161	145E	160E	164	210	156	148	121	103	127
29	167	161	162	145E	-----	159	193	150	148	129	103	129
30	166	159	161	150E	-----	158	259	142	149	126	99	136
31	164	-----	159	155E	-----	158	-----	136	-----	124	103	-----
TOTAL	4,880	4,678	5,048	4,649	4,341	4,983	5,705	7,053	4,802	4,315	3,580	3,846
MEAN	157	156	163	150	155	161	190	228	160	139	115	128
MAX	191	165	172	162	185	190	259	326	215	274	129	157
MIN	145	137	150	130	130	144	156	136	136	84	99	95
AC-FT	9,680	9,280	10,010	9,220	8,610	9,880	11,320	13,990	9,520	8,560	7,100	7,630
CAL YEAR 2002 TOTAL		59,623	MEAN	163	MAX	254	MIN	95	AC-FT	118,300		
WTR YEAR 2003 TOTAL		57,880	MEAN	159	MAX	326	MIN	84	AC-FT	114,800		

E indicates estimated discharge.

PLATTE RIVER BASIN (LOUP RIVER)

CEDAR RIVER near Fullerton, 06792000 - 2003

LOCATION.--SE1/4SE1/4 Sec. 33-17-6 W., Nance County, Lat. 41° 23' 41", Long. 98° 00' 13", on left upstream bank near county bridge, 3 miles northwest of Fullerton and 7.4 miles upstream from mouth.

DRAINAGE AREA.--1,220 square miles, of which about 480 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 1,638.39 feet above sea level.

PERIOD OF RECORD.--September 1931 - June 1932, October 1940 - present; non-recording gage before November 5, 1942.

REMARKS.--Record published by U. S. Geological Survey through Sep. 1995. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 64,700 cubic feet per second August 13, 1966, gage height 16.90 ft. (high point on surge); minimum daily discharge 30 cubic feet per second July 18, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharge 780 cubic feet per second May 4, gage height 2.62 feet; maximum gage height 3.16 feet February 25 due to backwater from ice; minimum daily discharge 56 cubic feet per second August 29 & 30.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178	243	207	230E	240E	250E	228	392	213	212	121	62
2	184	243	220	220E	240E	260E	231	340	234	202	116	71
3	201	236	215	220E	230E	270E	228	390	229	198	112	80
4	221	233	218	220E	240E	280E	227	626	242	177	106	90E
5	262	234	219	230E	240E	280E	220	521	270	173	102	100E
6	282	231	215	230E	240E	270E	234	401	280	206	100	110E
7	269	225	215E	220E	230E	280E	254	405	304	238	86	130E
8	238	217	215E	225	210E	270E	251	466	273	197	82	170E
9	226	214	210E	227	200E	270E	256	434	255	207	90	230E
10	223	217	220E	225	190E	260E	270	396	354	243	112	270E
11	219	214	215E	226	200E	260E	280	394	245	317	118	310E
12	220	205	215E	210E	210E	256	282	424	247	268	111	240
13	215	200	215E	200E	210E	246	277	429	314	197	116	184
14	200	202	220E	210E	220E	258	262	493	291	176	111	161
15	184	196	221	210E	240E	261	247	431	322	154	105	153
16	181	186	220	200E	260E	269	244	363	320	197	110	151
17	187	221	223	210E	300E	278	236	310	296	160	108	150
18	193	244	227	210E	330E	285	245	280	320	132	102	155
19	202	232	229	200E	350E	294	313	275	325	102	98	153
20	209	220	220	190E	340E	300	344	260	274	81	88	149
21	207	209	223	190E	308	304	309	249	241	99	76	147
22	204	200	254	180E	286	296	301	246	221	131	72	147
23	214	191	221	190E	270E	292	302	245	215	130	72	146
24	226	184	216	200E	250E	282	319	249	227	122	73	145
25	228	187	164	210E	240E	267	321	249	321	115	68	142
26	222	193	208	210E	230E	247	316	246	419	104	71	142
27	220	203	220E	210E	230E	240	304	251	317	114	72	142
28	224	210E	230E	210E	240E	241	297	243	254	137	57	143
29	231	216	230E	220E	-----	239	296	234	231	120	56	144
30	249	207	240E	220E	-----	234	504	221	221	113	56	147
31	253	-----	230E	230E	-----	231	-----	207	-----	115	58	-----
TOTAL	6,772	6,413	6,795	6,583	6,974	8,270	8,398	10,670	8,275	5,137	2,825	4,564
MEAN	218	214	219	212	249	267	280	344	276	166	91.1	152
MAX	282	244	254	230	350	304	504	626	419	317	121	310
MIN	178	184	164	180	190	231	220	207	213	81	56	62
AC-FT	13,430	12,720	13,480	13,060	13,830	16,400	16,660	21,160	16,410	10,190	5,600	9,050
CAL YEAR 2002 TOTAL		81,220	MEAN	223	MAX	451	MIN	49	AC-FT	161,100		
WTR YEAR 2003 TOTAL		81,676	MEAN	224	MAX	626	MIN	56	AC-FT	162,000		

E indicates estimated discharge.

PLATTE RIVER BASIN (LOUP RIVER)

LOUP RIVER POWER CANAL RETURN at Columbus, 00082100 - 2003

LOCATION.--SE1/4SW1/4 Sec. 23-17-1 E., Platte County, Lat. 41° 25' 27", Long. 97° 16' 56", on the left bank 50 feet upstream from the 8th Street bridge over the power canal return near the southeast edge of Columbus, Nebraska.

GAGE.--Continuous stage recorder. Gage datum is 1,400.91 feet above sea level.

PERIOD OF RECORD.--October 1, 2002 - present

REMARKS.--Records are good except estimated records and records below 200 cubic feet per second are poor, and records between 200 and 1,000 cubic feet per second are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharge 4,020 cubic feet per second March 8, gage height 12.44 feet; minimum daily discharge 56 cubic feet per second December 31, 2002.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,540	2,650	750	149	1,570	526	1,930	2,590	1,230	2,150	785	642
2	1,690	2,930	2,230	426	2,040	530	1,980	2,550	1,270	1,790	840	977
3	1,540	2,480	1,110	1,150	1,750	864	1,900	2,520	1,930	1,700	795	816
4	2,080	2,690	73	1,540	1,980	447	1,900	2,530	1,600	1,950	931	848
5	2,050	1,910	63	672	1,630	100E	2,090	1,720	1,800	1,370	1,090	1,090
6	2,150	2,360	68	773	1,900	100E	2,500	2,100	1,710	1,640	950	970
7	1,930	2,320	72	1,130	1,700	120E	2,690	2,410	2,180	1,430	832	881
8	1,850	2,340	63	2,330	1,620	1,400E	2,150	2,480	2,050	1,320	895	551
9	1,820	2,340	67	2,000	1,490	110E	2,700	2,530	2,140	1,350	789	999
10	1,720	2,440	114	581	1,130	120E	2,280	2,550	2,080	1,460	1,100	1,010
11	1,500	2,140	521	99	1,480	600E	2,330	2,550	2,340	1,490	1,060	1,750
12	1,550	2,810	713	107	1,580	1,700	2,240	2,460	2,120	1,440	1,290	1,940
13	1,460	3,010	591	116	1,810	1,870	2,390	2,080	2,460	1,320	1,100	2,580
14	1,600	2,560	1,080	113	1,670	2,650	1,010	2,360	1,630	1,500	1,130	2,400
15	933	877	1,550	113	1,640	2,300	2,400	2,390	1,860	784	1,000	1,890
16	1,390	2,190	1,330	124	1,750	1,910	2,340	2,460	1,530	936	651	1,370
17	1,960	2,510	2,080	105	1,580	2,240	2,400	2,120	2,000	919	1,090	1,520
18	1,670	2,610	2,900E	251	1,620	2,160	2,500	2,140	1,530	767	682	1,590
19	1,680	2,400	3,100E	635	1,820	2,610	2,580	2,130	2,060	784	708	1,150
20	1,730	2,550E	2,250E	814	1,270	2,680	2,670	2,260	2,050	811	993	1,430
21	1,940	1,680	760E	1,520	1,430	3,340	2,600	2,130	2,160	1,020	522	1,390
22	2,090	2,760	76	1,030	1,750	2,520	2,310	2,130	2,080	1,250	640	1,580
23	2,140	1,980	72	1,400	464	3,140	2,070	1,940	1,870	896	713	1,590
24	2,330	1,620	67	1,610	172	2,050	2,110	1,930	2,030	1,030	880	1,590
25	2,430	2,430	64	1,950	391	2,050	2,280	1,890	2,210	771	937	1,620
26	2,270	1,620	61	1,660	411	2,070	2,510	2,100	2,090	793	1,060	1,260
27	2,170	74	60	1,580	557	2,180	2,490	2,360	2,370	783	913	1,690
28	2,400	202	58	1,490	894	2,250	2,460	2,040	2,420	1,080	648	1,290
29	2,690	1,800	57	1,900	-----	2,280	2,190	2,220	2,480	1,140	186	1,920
30	3,100	1,230	57	1,810	-----	2,530	2,510	1,750	2,180	545	421	2,050
31	2,860	-----	56	1,960	-----	2,490	-----	1,440	-----	986	829	-----
TOTAL	60,263	63,513	22,113	31,138	39,099	51,937	68,510	68,860	59,460	37,205	26,460	42,384
MEAN	1,944	2,117	713	1,004	1,396	1,675	2,284	2,221	1,982	1,200	854	1,413
MAX	3,100	3,010	3,100	2,330	2,040	3,340	2,700	2,590	2,480	2,150	1,290	2,580
MIN	933	74	56	99	172	100	1,010	1,440	1,230	545	186	551
AC-FT	119,500	126,000	43,860	61,760	77,550	103,000	135,900	136,600	117,900	73,800	52,480	84,070

WTR YEAR 2003 TOTAL 570,942.00 MEAN 1,564 MAX 3,340 MIN 56 AC-FT 1,132,000

E indicates estimated discharge.

PLATTE RIVER BASIN (LOUP RIVER)

BEAVER CREEK at Loretto, 06793500 - 2003

LOCATION.--NE1/4SE1/4 Sec. 26-21-7 W., Boone County, Lat. 41° 45' 50", Long. 98° 04' 50", on the left bank 5 feet downstream from county road bridge, at west end of Loretto.

DRAINAGE AREA.--311 square miles, approximately 100 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 1,785.95 feet above sea level.

PERIOD OF RECORD.--Oct. 1944 - Sep. 1953, Oct. 1979 - present

REMARKS.--Record published by U. S. Geological Survey up to October 1, 1991. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 5,600 cubic feet per second August 29, 1993, gage height 11.88 feet; minimum daily discharge 12 cubic feet per second July 8, August 8, 9, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge 263 cubic feet per second May 5, gage height 3.20 feet; minimum daily discharge 21 cubic feet per second August 21.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	54E	50E	60E	60E	78E	77	179	53	47	46	34
2	45	56E	55E	54E	70E	70E	71	175	57	44	41	33
3	49	58	52E	60E	66E	70E	67	140	62	42	40	32
4	66	60E	45E	66E	60E	64E	65	150	64	39	35	31
5	65	58	40E	62E	54E	58E	66	234	69	40	30	30
6	57	57	45E	60E	50E	70E	68	229	63	59	28	29
7	52	57	50E	65E	48E	66E	73	186	64	58	27	27
8	50	56	46E	70E	48E	64E	76	154	67	47	26	28
9	48	56	44E	68E	50E	66E	93	146	66	58	28	29
10	48	54	48E	60E	54E	70E	105	139	63	59	32	36
11	53	54	50E	44E	60E	71	102	184	62	46	33	45
12	48	53	54E	48E	64E	74	88	207	65	41	31	47
13	49	54	58E	46E	68E	73	82	177	68	40	30	40
14	49	54	60E	44E	62E	76	73	181	68	37	29	37
15	48	54	63	44E	58E	83	70	168	71	33	28	36
16	51	54	64	47E	52E	81	66	132	69	30	27	36
17	54	55	67	44E	58E	80	69	108	75	27	27	36
18	54	54	70	46E	70E	80	83	94	78	28	24	35
19	52	54	71	50E	100E	84	108	85	71	30	23	36
20	52	54	69	48E	118	86	126	78	70	32	23	37
21	50	54	60E	46E	113	83	111	79	68	29	21	37
22	50	54	54E	42E	90E	78	96	74	64	29	22	36
23	52	54	45E	40E	60E	75	88	72	62	30	28	36
24	55	52E	40E	43E	55E	71	91	73	60	29	26	35
25	56	50E	45E	46E	60E	68	97	70	59	29	24	34
26	58	46E	50E	42E	66E	67	100	66	60	30	25	35
27	58	44E	55E	44E	70E	72	89	63	57	29	25	34
28	67	48E	57E	44E	74E	102	79	59	54	36	23	35
29	64	50E	60E	43E	-----	84	72	57	51	35	24	35
30	64	45E	64E	46E	-----	81	107	54	50	31	26	37
31	60E	-----	66E	50E	-----	79	-----	53	-----	35	-----	-----
TOTAL	1,668	1,603	1,697	1,572	1,858	2,324	2,558	3,866	1,910	1,179	882	1,048
MEAN	53.8	53.4	54.7	50.7	66.4	75.0	85.3	125	63.7	38.0	28.5	34.9
MAX	67	60	71	70	118	102	126	234	78	59	46	47
MIN	44	44	40	40	48	58	65	53	50	27	21	27
AC-FT	3,310	3,180	3,370	3,120	3,690	4,610	5,070	7,670	3,790	2,340	1,750	2,080
CAL YEAR 2002 TOTAL		23,010	MEAN	63.0	MAX	162	MIN	18	AC-FT	45,640		
WTR YEAR 2003 TOTAL		22,165	MEAN	60.7	MAX	234	MIN	21	AC-FT	43,960		

E indicates estimated discharge.

PLATTE RIVER BASIN (ELKHORN RIVER)

ELKHORN RIVER near Atkinson, 06796973 - 2003

LOCATION.--SW1/4NW1/4 Sec. 13-29-14 W., Holt County, Lat. 42° 29' 12", Long. 98° 54' 42", on left bank 10 feet downstream from county road bridge, 4 miles southeast of Atkinson.

DRAINAGE AREA.--Undetermined.

GAGE.--Continuous stage recorder. Gage elevation approximately 2,042 feet above sea level from topographic map.

PERIOD OF RECORD.--1982 - present

REMARKS.--Published by U. S. Geological Survey up to October 1, 1991. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 4,060 cubic feet per second May 29, 1995, gage height 9.27 feet; minimum daily discharge 0.15 cubic feet per second August 31, 2000.

EXTREMES FOR CURRENT YEAR.--Peak discharge 275 cubic feet per second May 11, gage height 4.75 feet; minimum daily discharge 0.34 cubic feet per second September 14.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	4.8E	9.4E	16E	17E	17E	24	68	26	52	3.1	.79
2	1.3	6.0E	10 E	15E	16E	16E	23	96	25	46	2.7	.79
3	2.2	7.0E	11 E	16E	15E	16E	21	113	25	42	2.4	.64
4	8.5	7.6E	10 E	15E	16E	17E	21	112	26	40	1.9	.72
5	4.7	8.1	9.0E	16	15E	17E	20	129	26	34	2.0	.68
6	2.7	8.3	10 E	15	14E	18E	21	187	25	35	1.6	.91
7	2.1	8.5	11 E	15	13E	17E	23	220	24	33	1.6	1.1
8	2.2	11	12 E	15	15E	18E	24	214	24	31	1.4	1.0
9	2.3	9.5	11 E	14E	14E	20E	26	215	24	29	1.3	.74
10	2.5	8.7	12 E	14E	14E	24E	30	246	23	25	3.9	.59
11	2.3	8.0	12 E	13E	15E	28E	29	265	24	22	1.8	.42
12	2.4	8.3	11 E	12E	16E	33	27	274	23	20	1.4	.57
13	2.1	8.4	12 E	13E	16E	26	26	263	22	18	1.1	.40
14	1.7	8.6	13 E	14E	15E	27	26	238	22	16	.94	.34
15	1.8	8.4	12 E	15E	14E	30	26	203	22	15	.94	.52
16	1.9	8.6	11 E	14E	13E	32	27	162	22	13	.94	.54
17	2.4	8.8	11 E	14E	16E	28	29	130	22	12	.81	.50
18	1.8	8.9	10 E	15E	19E	29	38	106	23	11	.69	.56
19	1.6	8.8	9.6E	16E	20E	28	47	90	21	11	.58	.61
20	1.8	9.0	9.4E	15E	18E	26	48	74	20	10	.55	.53
21	1.6	9.1	10 E	13E	16E	26	49	66	25	8.8	.48	.66
22	1.3	9.2	11 E	12E	15E	25	49	59	31	8.3	.45	.61
23	1.6	8.8	10 E	11E	13E	25	46	36	39	7.9	.47	.72
24	1.7	8.5	11 E	12E	12E	23	47	52	41	7.1	.53	.52
25	1.6	7.6E	13 E	13E	13E	22	56	49	49	6.4	.50	.61
26	1.7	8.0E	15 E	14E	14E	21	69	47	55	5.7	.62	.63
27	2.3	7.6E	17 E	13E	16E	24	70	43	64	4.7	.62	.56
28	3.8	8.4E	18 E	13E	15E	24	60	40	71	5.7	.48	.60
29	3.5 E	9.6E	19 E	14E	-----	21	55	36	65	4.4	.46	.45
30	4.5 E	9.0E	17 E	15E	-----	22	60	32	58	4.0	.37	.57
31	4.0 E	-----	15 E	15E	-----	23	-----	26	-----	3.4	.47	-----
TOTAL	76.82	251.1	372.4	437	425	723	1,117	3,891	967	581.4	37.10	18.88
MEAN	2.48	8.37	12.0	14.1	15.2	23.3	37.2	126	32.2	18.8	1.20	.63
MAX	8.5	11	19	16	20	33	70	274	71	52	3.9	1.1
MIN	.92	4.8	9.0	11	12	16	20	26	20	3.4	.37	.34
AC-FT	152	498	739	867	843	1,430	2,220	7,720	1,920	1,150	74	37
CAL YEAR 2002 TOTAL		8,509.70	MEAN	23.3	MAX	102	MIN	.25	AC-FT	16,880		
WTR YEAR 2003 TOTAL		8,897.70	MEAN	24.4	MAX	274	MIN	.34	AC-FT	17,650		

E indicates estimated discharge.

PLATTE RIVER BASIN (ELKHORN RIVER)

SOUTH FORK ELKHORN RIVER near Ewing, 06798000 - 2003

LOCATION.--SE1/4NE1/4 Sec. 7-26-9 W., Holt County, Lat. 42° 14' 29", Long. 98° 23' 53", on right bank 7 feet downstream and 80 feet shoreward from bridge on county highway, 2.9 miles southwest of intersection with U.S. Highway 275 in Ewing and 5.5 miles upstream from the mouth.

DRAINAGE AREA.--314 square miles, of which approximately 190 square miles contributes directly to surface runoff.

GAGE.--Continuous Stage Recorder. Elevation of the gage is approximately 1,880 feet from topographic map.

PERIOD OF RECORD.--Oct. 1977 - present

REMARKS.--Published by U. S. Geological Survey up to October 1, 1991. See USGS reports for period of record before 1977. Records are fair, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 5,640 cubic feet per second March 18, 1987, gage height 7.59 feet; minimum daily discharge 11 cubic feet per second January 15, 1953.

EXTREMES FOR CURRENT YEAR.--Peak discharge 210 cubic feet per second on May 12, gage height 2.45 feet; minimum daily discharge 15 cubic feet per second on September 6.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	40E	40E	44E	60E	60E	41	150E	46	35	33	26
2	32	42E	34E	46	86	55E	41	100E	52	35	30	23
3	42	43	34E	43	88	60E	43	90E	52	39	32	17
4	80	43E	32E	41	75E	55E	46	100E	52	40	23	18
5	49	43E	28E	43	80E	52E	48	90E	49	49	30	19
6	34	46E	26E	39	60E	64E	61	92E	46	85	23	15
7	36	50E	30E	43	50E	60E	38	88E	52	66	23	17
8	33	46E	34E	41	45E	55E	68	86E	49	67	21	17
9	33	44E	36E	42	45E	50E	62	84	41	85	21	23
10	33	40E	42E	35E	47E	60E	64	128	38	71	33	30
11	33	38E	46	30E	48E	71	71	144	41	65	26	55
12	31	40E	41	40E	50E	61	74	180	38	77	23	41
13	30	42E	41	35E	60E	55	61	182	43	68	25	28
14	28	41	38	30E	67	58	49	159	58	62	26	28
15	26	38	35	28E	55E	58	45	135	46	54	26	28
16	33	38	33	26E	50E	55	62	105	49	46	23	26
17	33	38	38	28E	55E	55	68	82	49	43	19	23
18	30	35	38	28E	66	56	69	61	43	44	17	28
19	30	38	35	34E	63	55	78	56	41	44	17	26
20	28	35	30E	38E	63	58	73	49	47	38	19	23
21	27	35	28E	32E	63	61	70E	43	45	36	17	25
22	28	34E	26E	30E	60E	58	66E	47	45	31	19	28
23	33	41	24E	28E	50E	51	62E	49	39	28	19	28
24	41	38	30E	30E	40E	46	70E	43	28	25	17	26
25	41	34E	40E	32E	42E	46	180E	42	44	26	17	26
26	39	28E	44E	28E	50E	42	100E	43	37	21	20	26
27	46	30E	48E	32E	55E	53	90E	43	36	49	19	28
28	52	36E	52E	36E	55E	46	80E	46	35	49	17	30
29	42	36E	65	36E	-----	52	70E	50	37	38	17	30
30	40E	34E	46	42E	-----	49	80E	43	37	38	21	30
31	36E	-----	44E	50E	-----	45	-----	46	-----	35	23	-----
TOTAL	1,121	1,166	1,158	1,110	1,628	1,702	2,030	2,656	1,315	1,489	696	788
MEAN	36.2	38.9	37.4	35.8	58.1	54.9	67.7	85.7	43.8	48.0	22.5	26.3
MAX	80	50	65	50	88	71	180	182	58	85	33	55
MIN	22	28	24	26	40	42	38	42	28	21	17	15
AC-FT	2,220	2,310	2,300	2,200	3,230	3,380	4,030	5,270	2,610	2,950	1,380	1,560
CAL YEAR 2002 TOTAL		16,079	MEAN	44.1	MAX	123	MIN	17	AC-FT	31,890		
WTR YEAR 2003 TOTAL		16,859	MEAN	46.2	MAX	182	MIN	15	AC-FT	33,440		

E indicates estimated discharge.

PLATTE RIVER BASIN (ELKHORN RIVER)

ELKHORN RIVER at Neligh, 06798500 - 2003

LOCATION.--NW1/4SW1/4 Sec. 20-25-6 W., Antelope County, Lat. 42° 07' 23", Long. 98° 02' 37", on the left bank 30 feet downstream from the roadway on State Highway 14 at Neligh, NE.

DRAINAGE AREA.--2,200 square miles, approximately 1,200 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 1,717.50 feet above sea level.

PERIOD OF RECORD.--1930 - 1958, 1960 - present

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1993. Records are good, except estimated records are poor. This station was moved to its present location on Nebraska Highway 14 on June 18, 1999. Previous location was 3/4 mile downstream at the old Highway 14 near the Neligh Mill.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 19,300 cubic feet per second May 30, 1995, gage height 13.37 feet (datum for previous location at Neligh Mill); minimum daily discharge 12 cubic feet per second July 1, 1932.

EXTREMES FOR CURRENT YEAR.--Peak discharge 982 cubic feet per second May 14, gage height 4.30 feet; minimum daily discharge 41 cubic feet per second August 24, 25, September 7.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	153	156	170E	210E	200E	244	409	202	213	95	56
2	88	155	179	150E	200E	180E	234	438	225	199	89	53
3	100	158	168	170E	180E	190E	224	484	217	180	84	49
4	146	162	170	170E	170E	160E	211	609	212	180	81	47
5	164	169	136	160E	160E	150E	203	797	212	180	87	46
6	136	164	130E	155E	150E	180E	208	762	210	276	90	43
7	122	162	120E	150E	150E	240E	224	675	205	245	76	41
8	121	160	140E	180E	160E	220E	228	662	199	203	72	43
9	118	158	150E	160E	180E	200E	240	667	192	227	69	51
10	115	161	160E	140E	190E	180E	250	733	190	225	86	54
11	113	154	165E	130E	200E	200E	258	918	189	193	79	55
12	114	156	170E	140E	210E	210E	255	917	214	177	69	57
13	111	156	178	140E	216	228	249	897	197	161	70	58
14	110	163	186	130E	210E	227	241	916	189	147	67	59
15	107	160E	197	120E	180E	266	238	816	189	133	60	61
16	118	160E	190	110E	160E	259	256	684	182	125	57	63
17	124	165	192	110E	170E	240	326	577	242	118	52	62
18	120	163	197	120E	200E	236	373	493	236	117	49	67
19	116	161	186	140E	240E	238	430	447	192	114E	46	69
20	114	158	170	130E	290E	236	443	397	193	110E	48	69
21	119	160	150	120E	290E	227	418	353	186	107	53	68
22	121	158	122	120E	200E	228	393	338	184	105	48	69
23	125	161	121	110E	130E	228	362	323	186	97	44	68
24	128	160	115E	140E	120E	227	358	306	185	95	41	68
25	130	153	110E	160E	115E	218	350	293	199	100	41	69
26	131	140E	122E	170E	115E	214	344	267	226	105	47	68
27	142	140E	140E	180E	130E	262	353	241	220	109	48	72
28	155	150E	160E	190E	150E	280	369	229	214	105	47	74
29	154	189	180E	190E	-----	254	348	223	213	101	47	79
30	140E	183	180E	200E	-----	252	377	210	212	102	55	81
31	150E	-----	170E	230E	-----	255	-----	202	-----	99	56	-----
TOTAL	3,835	4,792	4,910	4,685	5,076	6,885	9,007	16,283	6,112	4,648	1,953	1,819
MEAN	124	160	158	151	181	222	300	525	204	150	63.0	60.6
MAX	164	189	197	230	290	280	443	918	242	276	95	81
MIN	83	140	110	110	115	150	203	202	182	95	41	41
AC-FT	7,610	9,500	9,740	9,290	10,070	13,660	17,870	32,300	12,120	9,220	3,870	3,610
CAL YEAR 2002	TOTAL	69,447	MEAN	190	MAX	482	MIN	37	AC-FT	137,700		
WTR YEAR 2003	TOTAL	70,005	MEAN	192	MAX	918	MIN	41	AC-FT	138,900		

E indicates estimated discharge.

PLATTE RIVER BASIN (ELKHORN RIVER)

WILLOW CREEK near Foster, 06799080 - 2003

LOCATION.--NW1/4NE1/4 Section 4-25-3 W., Pierce County, Lat. 42° 10' 38", Long. 97° 40' 02", on left downstream bank at county road bridge, 6.8 miles south of Foster and 7.2 miles southwest of Pierce.

DRAINAGE AREA.--137 square miles.

GAGE.--Continuous stage recorder. Gage elevation approximately 1,650 feet above mean sea level, from topographic map.

PERIOD OF RECORD.--1975 - present

REMARKS.--Published by U. S. Geological Survey up to October 1, 1993. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 574 cubic feet per second March 18, 1987, gage height 7.94 feet; maximum stage 8.40 feet August 24, 1995; minimum daily discharge 1.0 cubic feet per second November 4, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharge 68 cubic feet per second May 13, gage height 5.38 feet; minimum daily discharge 2.1 cubic feet per second September 4.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	8.0E	10 E	8.6E	12 E	12 E	17	25	11	8.2	6.4	4.1
2	7.0	8.2E	9.6E	10 E	11 E	10 E	15	30	12	7.9	5.7	3.9
3	8.0	8.8E	9.0E	11 E	10 E	11 E	14	30	13	7.4	5.4	3.5
4	10	9.1	8.0E	12	9.2E	11 E	14	41	13	8.1	6.2	2.1
5	8.8	9.4	8.6E	12	10 E	10 E	14	45	13	8.4	6.8	3.4
6	7.9	9.1	9.0E	12	9.0E	11 E	14	50	12	23	6.3	3.3
7	7.7	9.0	9.0E	12	8.4E	11 E	16	46	12	16	6.0	3.2
8	7.6	8.8	8.4E	12	8.6E	10 E	15	38	12	14	5.6	3.2
9	7.8	8.8	9.0E	12	9.0E	9.0E	17	32	12	14	5.8	4.5
10	8.3	8.8	10 E	11 E	10 E	9.6E	19	30	11	13	12	5.3
11	7.9	8.7	9.6E	10 E	11 E	9.8E	17	38	11	12	9.3	7.8
12	7.5	9.0	10 E	11 E	11 E	10 E	16	40E	10	10	7.2	6.7
13	7.5	9.0	11	10 E	12 E	11 E	15	60E	10	8.7	6.8	5.1
14	7.6	9.0	11	9.2E	11 E	12	14	50	10	7.9	6.6	4.8
15	7.1	9.0	11	9.0E	9.8E	12	14	41	9.9	7.2	6.2	4.6
16	7.8	9.2	11	9.0E	10 E	12	13	34	9.6	6.6	6.0	4.5
17	8.6	9.2	11	8.6E	11 E	12	12	29	10	7.0	5.6	4.4
18	7.8	9.1	12	8.0E	11 E	13	13	24	9.7	7.3	5.4	6.2
19	7.3	9.0	11	8.6E	11 E	13	14	20	9.2	6.2	5.2	6.2
20	7.5	9.2	11	8.0E	12 E	14	16	19	9.1	6.3	4.5	5.4
21	7.4	9.1	10 E	7.8E	11 E	14	19	17	9.0	6.7	3.5	5.2
22	7.4	9.1	9.6E	7.6E	10 E	14	20	17	9.6	6.3	3.4	5.1
23	7.7	9.1	9.0E	7.4E	9.8E	14	18	17	10	5.5	3.4	5.2
24	8.0	8.9	8.0E	7.4E	9.6E	14	18	16	8.5	5.9	2.9	5.0
25	8.1	8.6E	8.6E	7.8E	9.0E	14	18	15	10	5.6	3.3	5.0
26	8.0	8.0E	9.0E	7.8E	9.8E	14	17	15	11	5.1	4.6	5.0
27	8.7	8.6E	10 E	8.0E	10 E	20	16	14	9.3	7.6	4.2	5.1
28	9.9	9.0E	10 E	8.4E	11 E	25	14	13	8.2	8.2	4.1	5.3
29	8.9	10 E	9.0E	8.6E	-----	26	14	12	7.8	7.2	4.0	5.5
30	8.4E	9.0E	8.8E	9.0E	-----	23	23	11	8.7	7.0	2.6	5.6
31	8.2E	-----	8.4E	10 E	-----	20	-----	10	-----	7.5	3.8	-----
TOTAL	247.3	267.8	299.6	293.8	287.2	421.4	476	879	311.6	271.8	168.8	144.2
MEAN	7.98	8.93	9.66	9.48	10.3	13.6	15.9	28.4	10.4	8.77	5.45	4.81
MAX	10	10	12	12	12	26	23	60	13	23	12	7.8
MIN	6.9	8.0	8.0	7.4	8.4	9.0	12	10	7.8	5.1	2.6	2.1
AC-FT	491	531	594	583	570	836	944	1,740	618	539	335	286
CAL YEAR 2002	TOTAL	4,860.10	MEAN	13.3	MAX	58	MIN	2.4	AC-FT	9,640		
WTR YEAR 2003	TOTAL	4,068.50	MEAN	11.1	MAX	60	MIN	2.1	AC-FT	8,070		

E indicates estimated discharge.

PLATTE RIVER BASIN (ELKHORN RIVER)

WILLOW CREEK RESERVOIR from Willow Creek, 00410300 - 2003

LOCATION.--NW1/4SE1/4 Sec. 33-26-2 W. near Pierce, Pierce County, Lat. 42° 10' 49", Long. 97° 33' 18", two miles southwest of Pierce.

DRAINAGE AREA.--210 square miles.

GAGE.--Continuous stage recorder. Gage datum is mean sea level.

PERIOD OF RECORD.--1983 - present

STORAGE LEVEL	ELEVATION (feet)	CONTENT (acre-feet)
Top of flood pool	1637.8	18,780
Top of conservation pool	1625.5	6,890
top of dead storage pool	1602.0	100

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,570	4,850	5,030	5,260	5,470	5,840	6,460	6,990	7,060	6,840	6,150	4,890
2	4,590	4,770	5,030	5,270	5,490	5,850	6,490	7,030	7,040	6,820	6,140	4,850
3	4,610	4,810	5,040	5,280	5,520	5,860	6,510	7,040	7,050	6,790	6,110	4,810
4	4,640	4,810	5,040	5,290	5,540	5,860	6,520	7,080	7,050	6,760	6,080	4,770
5	4,650	4,810	5,010	5,310	5,540	5,870	6,540	7,210	7,100	6,740	6,090	4,730
6	4,650	4,830	5,060	5,320	5,550	5,890	6,540	7,270	7,110	6,770	6,060	4,690
7	4,650	4,850	5,070	5,330	5,550E	5,900	6,590	7,320	7,100	6,820	6,010	4,640
8	4,640	4,850	5,070	5,340	5,560	5,910	6,620	7,350	7,100	6,820	5,940	4,600
9	4,640	4,850	5,080	5,350	5,570	5,910	6,630	7,370	7,080	6,830	5,890	4,570
10	4,650	4,870	5,090	5,340	5,590	5,920	6,650	7,350	7,070	6,850	5,860	4,590
11	4,650	4,880	5,100	5,340	5,590	5,930	6,670	7,380	7,060	6,840	5,850	4,620
12	4,640	4,880	5,110	5,340	5,600	5,940	6,700	7,380	7,040	6,840	6,050	4,650E
13	4,640	4,890	5,120	5,340	5,600	5,970	6,710	7,380	7,040	6,820	6,040	4,670E
14	4,640	4,890	5,130	5,350	5,610	5,980	6,730	7,440	7,030	6,800	6,000	4,680E
15	4,620	4,900	5,140	5,350	5,650	6,010	6,730	7,480	7,020	6,770	6,030	4,680E
16	4,620	4,910	5,150	5,370	5,640E	6,040	6,730	7,450	7,010	6,730	6,030	4,670E
17	4,650	4,920	5,160	5,380	5,670	6,060	6,740	7,440	7,010	6,720	5,940	4,660E
18	4,650	4,930	5,180	5,380	5,680	6,080	6,740	7,400	6,990	6,680	5,480	4,650E
19	4,640	4,950	5,190	5,390	5,700	6,090	6,760	7,370	6,990	6,650	5,440	4,640E
20	4,660	4,950	5,210	5,390	5,720	6,100	6,780	7,320	6,960	6,620	5,420	4,630
21	4,640	4,960	5,190	5,400	5,750	6,150	6,790	7,280	6,940	6,590	5,390	4,620
22	4,630	4,960	5,200	5,400	5,780	6,150	6,800	7,250	6,920	6,520	5,310	4,590
23	4,630	4,970	5,200	5,410	5,790	6,170	6,810	7,220	6,920	6,480	5,270	4,570
24	4,640	4,970	5,210	5,420	5,800E	6,180	6,830	7,200	6,920	6,420	5,220	4,550
25	4,650	4,970	5,210	5,420	5,800E	6,200	6,860	7,200	6,910	6,330	5,180	4,540
26	4,680	4,980	5,210	5,420	5,810	6,210	6,870	7,180	6,920	6,340	5,140	4,470
27	4,680	4,990	5,220	5,430	5,820	6,240	6,890	7,170	6,900	6,280	5,100	4,410
28	4,680	5,000	5,220	5,440	5,820	6,310	6,890	7,150	6,890	6,280	5,060	4,420
29	4,680	5,010	5,240	5,440	-----	6,350	6,890	7,130	6,870	6,240	5,020	4,420
30	4,730	5,030	5,250	5,460	-----	6,380	6,920	7,110	6,860	6,190	4,970	4,430
31	4,740	-----	5,250	5,470	-----	6,430	-----	7,080	-----	6,150	4,920	-----
MAX	4,740	5,030	5,250	5,470	5,820	6,430	6,920	7,480	7,110	6,850	6,150	4,890
MIN	4,570	4,770	5,010	5,260	5,470	5,840	6,460	6,990	6,860	6,150	4,920	4,410
CHANGE	119	288	226	214	355	609	486	158	-220	-707	-1,230	-488
CAL YEAR 2002			MEAN	6,111	MAX	7,420	MIN	4,570				
WTR YEAR 2003			MEAN	5,805	MAX	7,480	MIN	4,410				

E indicated estimated storage.

PLATTE RIVER BASIN (ELKHORN RIVER)

WILLOW CREEK near Pierce, 00232500 - 2003

LOCATION.--SE1/4SW1/4 Sec. 33-26-2 W., Pierce County, Lat. 42° 10' 49", Long. 97° 33' 18", on Willow Creek Dam,
Two miles southwest of Pierce.

DRAINAGE AREA.--210 square miles.

GAGE.--Continuous stage recorder. Gage datum is mean sea level.

PERIOD OF RECORD.--1983 - present

REMARKS.--Records are good.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 464 cubic feet per second March 26, 1987, gage height 6.87 feet; minimum
daily discharge 1.0 cubic feet per second, August 2 & 3, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharge 57 cubic feet per second May 14, gage height 4.19 feet; minimum daily
discharge 1.4 cubic feet per second, September 7.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	4.6	4.8	4.4	4.6	4.5	5.4	13	13	3.9	4.0	2.1
2	4.4	4.5	4.7	4.4	4.6	4.6	5.4	15	14	4.0	3.2	2.1
3	4.4	4.5	4.6	4.4	4.7	4.7	5.5	16	14	3.7	3.4	1.6
4	4.6	4.5	4.6	4.5	4.7	4.6	5.4	24	15	3.5	3.4	1.6
5	4.7	4.6	4.6	4.4	4.9	4.5	5.4	31	18	3.4	3.6	1.6
6	4.9	4.1	4.6	4.4	4.9	4.6	5.6	35	18	3.8	3.7	1.5
7	4.9	4.4	4.5	4.4	4.9	4.6	5.5	38	18	4.2	3.8	1.4
8	4.7	4.2	4.3	4.4	4.9	4.6	5.5	39	18	4.4	3.3	1.5
9	4.6	4.3	4.4	4.4	5.0	4.6	5.6	41	17	4.6	3.0	1.8
10	4.6	4.5	4.5	4.4	4.9	4.7	5.6	40	17	4.7	2.9	2.1
11	4.7	4.4	4.6	4.3	5.0	4.7	5.6	44	15	4.8	3.1	2.4
12	4.9	4.5	4.4	4.2	4.7	4.6	5.6	42	15	4.7	3.4	2.5
13	4.6	4.6	4.4	4.1	4.8	4.6	5.7	43	15	4.7	3.5	2.7
14	4.4	4.6	4.5	4.0	4.6	4.8	5.8	52	14	4.8	2.9	2.8
15	4.4	4.6	4.5	4.1	4.7	4.9	6.0	52	13	4.4	2.5	2.9
16	4.1	4.7	4.5	4.2	4.9	4.9	6.2	50	12	4.3	2.7	3.0
17	4.2	4.8	4.7	4.2	4.8	4.9	6.2	47	12	4.1	2.7	3.1
18	4.2	4.7	4.7	4.3	4.6	4.9	6.3	43	11	4.0	2.5	3.2
19	4.4	4.6	4.8	4.3	4.7	5.0	6.2	40	9.4	3.9	2.5	3.3
20	4.4	4.7	4.9	4.2	4.9	5.1	6.2	35	7.8	3.9	2.2	3.4
21	4.5	4.7	4.7	4.2	4.7	5.2	6.1	31	6.8	3.6	2.1	3.4
22	4.4	4.7	4.6	4.2	4.6	5.1	6.0	29	6.4	3.4	1.7	3.5
23	4.2	4.6	4.5	4.2	4.8	5.3	6.0	28	6.5	3.2	1.7	3.5
24	4.2	4.7	4.6	4.1	5.0	5.2	6.0	26	6.2	3.4	1.9	3.5
25	4.2	4.7	4.6	4.0	4.7	5.2	6.0	25	6.7	3.1	1.6	3.5
26	4.2	4.6	4.4	4.0	4.6	5.4	6.7	24	6.0	2.8	2.1	3.2
27	4.2	4.6	4.4	4.1	4.6	5.5	6.9	23	5.4	3.0	2.0	3.3
28	4.2	4.7	4.4	4.0	4.6	5.6	7.0	21	4.9	3.3	1.8	3.2
29	4.2	4.9	4.4	4.2	-----	5.6	7.2	19	4.7	3.6	1.7	3.3
30	4.4	4.7	4.3	4.4	-----	5.3	11	17	4.4	4.2	1.8	3.5
31	4.4	-----	4.4	4.6	-----	5.4	-----	14	-----	4.6	2.1	-----
TOTAL	137.5	137.3	140.9	132.0	133.4	153.2	183.6	997	344.2	122.0	82.8	80.5
MEAN	4.44	4.58	4.55	4.26	4.76	4.94	6.12	32.2	11.5	3.94	2.67	2.68
MAX	4.9	4.9	4.9	4.6	5.0	5.6	11	52	18	4.8	4.0	3.5
MIN	4.1	4.1	4.3	4.0	4.6	4.5	5.4	13	4.4	2.8	1.6	1.4
AC-FT	273	272	279	262	265	304	364	1,980	683	242	164	160
CAL YEAR 2002	TOTAL	4,848.20	MEAN	13.3	MAX	45	MIN	1.0	AC-FT	9,620		
WTR YEAR 2003	TOTAL	2,644.40	MEAN	7.24	MAX	52	MIN	1.4	AC-FT	5,250		

PLATTE RIVER BASIN (ELKHORN RIVER)

UNION CREEK at Madison, 06799230 - 2003

LOCATION.--SW1/4SE1/4 Sec. 32-22-1 W., Madison County, Lat. 41° 49' 52", Long. 97° 27' 19", on left bank 12 feet downstream from bridge on old U.S. highway 81, in Madison.

DRAINAGE AREA.--173.76 square miles

GAGE.--Continuous stage recorder. Datum of gage is 1549.70 feet, National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1978 - present

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1993. Records are fair.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 15,100 cubic feet per second June 16, 1990, gage height 25.72 feet; minimum daily discharge 2.0 cubic feet per second August 28, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharge 2,280 cubic feet per second April 30 and May 5, gage height 17.43 feet; minimum daily discharge 3.6 cubic feet per second July 23.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	16	16	15	19	19	24	762	22	10	4.1	5.6
2	12	15	17	15	23	20	24	49	27	8.4	4.1	4.8
3	12	14	16	16	22	20	25	31	26	8.6	4.0	4.6
4	17	15	15	17	20	19	24	1,060	25	6.3	4.0	4.8
5	13	15	15	17	19	19	24	1,580	49	10	9.2	4.9
6	11	14	15	16	19	19	26	455	54	108	6.7	5.7
7	11	13	16	17	18	21	28	94	28	26	7.1	5.8
8	11	15	16	16	18	19	28	227	28	15	6.9	6.0
9	11	15	16	17	17	19	31	1,010	30	38	9.0	7.8
10	11	15	16	16	18	19	39	135	23	48	29	7.5
11	12	15	17	15	18	19	32	417	22	16	9.0	37
12	13	15	17	16	18	21	30	61	21	9.1	13	51
13	14	15	16	16	18	22	28	54	20	7.7	10	35
14	12	15	17	15	25	23	25	135	20	6.7	7.0	12
15	12	16	18	15	26	24	25	42	20	4.3	4.8	8.5
16	13	15	18	15	20	25	25	28	20	4.3	4.8	7.6
17	13	15	18	16	20	24	25	26	62	5.4	5.6	7.7
18	12	15	19	15	48	25	26	25	30	5.7	6.9	9.1
19	12	15	18	16	124	25	28	29	44	6.8	6.6	8.4
20	13	14	17	16	191	26	26	26	21	6.2	5.9	8.1
21	13	14	16	15	88	25	28	26	15	5.5	5.0	8.8
22	13	14	14	15	35	24	26	24	14	3.7	5.1	8.6
23	14	14	14	16	23	23	26	23	14	3.6	5.2	8.4
24	15	15	13	15	21	23	27	23	13	5.0	5.7	7.9
25	15	14	13	15	19	23	27	24	33	4.5	5.4	7.9
26	15	15	14	15	18	23	26	26	32	3.7	5.3	8.3
27	15	15	14	16	19	27	26	26	22	5.0	5.8	9.0
28	15	15	15	15	18	29	26	22	14	4.1	5.5	8.8
29	15	16	15	15	-----	25	26	23	12	4.6	5.2	9.6
30	18	16	15	16	-----	25	1,060	23	11	4.7	6.4	10
31	16	-----	16	18	-----	24	-----	23	-----	4.2	6.2	-----
TOTAL	408.0	445	492	488	942	699	1,841	6,509	772	399.1	218.5	329.2
MEAN	13.2	14.8	15.9	15.7	33.6	22.5	61.4	210	25.7	12.9	7.05	11.0
MAX	18	16	19	18	191	29	1,060	1,580	62	108	29	51
MIN	9.0	13	13	15	17	19	24	22	11	3.6	4.0	4.6
AC-FT	809	883	976	968	1,870	1,390	3,650	12,910	1,530	792	433	653
CAL YEAR 2002	TOTAL	9,393.90	MEAN	25.7	MAX	1,220	MIN	3.5	AC-FT	18,630		
WTR YEAR 2003	TOTAL	13,542.80	MEAN	37.1	MAX	1,580	MIN	3.6	AC-FT	26,860		

PLATTE RIVER BASIN (ELKHORN RIVER)

PEBBLE CREEK at Scribner, 06799385 - 2003

LOCATION.--NW1/4SE1/4 Sec. 36-20-6E., Dodge County, Lat. 41° 39' 34", Long 96° 41' 00", on right bank 12 feet downstream from bridge on blacktop county road one mile west and one-quarter mile south of Scribner.

DRAINAGE AREA.--203.52 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,234.72 feet above mean sea level.

PERIOD OF RECORD.--1978 - present

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1993. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 27,900 cubic feet per second June 5, 1991, gage height 24.15 feet; minimum daily discharge 0.29 cubic feet per second July 20, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge 5,830 cubic feet per second April 30, gage height 18.60 feet; minimum daily discharge 7.1 cubic feet per second August 16.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	15E	21E	19E	25E	35E	18	182	35	27	14	10
2	15	16	18E	20	25E	30E	17	65	39	25	14	11
3	15	16	17E	20	24E	31E	17	47	40	25	13	10
4	26	15	16E	21	20E	29E	19	1,190	36	25	12	10
5	21	15	15E	21	19E	26E	19	876	60	25	12	10
6	15	15	20E	20	19E	29E	22	294	103	44	12	10
7	13	15	18E	21	17E	28E	23	77	42	45	11	11
8	13	15	17E	21	17E	25E	24	63	43	27	11	11
9	13	15	17E	20	18E	23E	25	103	40	32	10	13
10	14	15	16E	19E	18E	25E	28	53	37	34	10	24
11	13	16	16E	26E	21E	29	23	89	35	26	9.7	60
12	13	16	17E	19E	24E	30	19	47	35	25	9.2	84
13	13	16	18E	17E	24E	30	18	47	34	24	8.4	21
14	13	16	18	16E	21E	31	17	248	32	24	7.6	18
15	13	16	19	15E	20E	42	16	64	32	23	7.2	12
16	14	16	19	14E	19E	33	16	43	32	21	7.1	13
17	15	17	19	12E	20E	28	16	39	32	19	7.3	12
18	14	17	20	13E	29E	26	17	37	78	19	7.9	13
19	14	17	20	16E	30E	26	18	536	34	19	118	14
20	14	17	18E	14E	45E	27	18	83	30	19	19	12
21	14	17	17E	13E	54E	28	16	60	30	18	11	13
22	15	18	16E	12E	50E	23	15	53	30	17	9.6	12
23	16	18	16E	11E	40E	21	16	51	30	17	9.3	12
24	16	18	15E	11E	35E	20	16	75	28	16	9.1	12
25	15	17E	16E	12E	28E	20	15	63	28	16	8.8	12
26	16	16E	17E	12E	29E	20	15	46	28	15	9.2	12
27	17	15E	20E	13E	32E	21	14	42	27	15	8.9	12
28	16	17E	21E	14E	33E	22	13	40	26	15	8.8	12
29	16	19	21E	15E	-----	21	15	37	26	14	9.1	12
30	15E	18E	20E	17E	-----	20	2,390	36	28	13	8.9	13
31	14E	-----	19E	19E	-----	19	-----	34	-----	14	9.7	-----
TOTAL	464	489	557	513	756	818	2,915	4,720	1,130	698	422.8	501
MEAN	15.0	16.3	18.0	16.5	27.0	26.4	97.2	152	37.7	22.5	13.6	16.7
MAX	26	19	21	26	54	42	2,390	1,190	103	45	118	84
MIN	13	15	15	11	17	19	13	34	26	13	7.1	10
AC-FT	920	970	1,100	1,020	1,500	1,620	5,780	9,360	2,240	1,380	839	994
CAL YEAR 2002 TOTAL		15,172.0	MEAN	41.6	MAX	1,870	MIN	10	AC-FT	30,090		
WTR YEAR 2003 TOTAL		13,983.8	MEAN	38.3	MAX	2,390	MIN	7.1	AC-FT	27,740		

E indicates estimated discharge.

PLATTE RIVER BASIN (ELKHORN RIVER)

LOGAN CREEK at Pender, 06799450 - 2003

LOCATION.--NW1/4 Section 26-25-6 E., Thurston County, Lat. 42° 06' 40", Long. 96° 42' 00", on left bank just downstream of the State Highway 94 bridge at Pender.

DRAINAGE AREA.--731 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,300.96 feet above mean sea level.

PERIOD OF RECORD.--1965 - present

REMARKS.--Published by U. S. Geological Survey up to October 1, 1993. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 36,900 cubic feet per second February 19, 1971, gage height 23.11 feet; minimum daily discharge 12 cubic feet per second August 11, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge 7,720 cubic feet per second June 10, gage height 14.30 feet; minimum daily discharge 61 cubic feet per second August 29 and September 7.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	108	115	98E	155E	170E	146	245	174	217	133	67
2	82	103	105	98E	150E	150E	137	197	200	211	128	69
3	87	104	100E	96E	120E	170E	132	169	231	204	122	66
4	115	102	100E	96E	110E	150E	133	389	228	199	118	62
5	105	103	90E	95	120E	140E	132	746	220	423	125	63
6	93	101	96E	94	110E	160E	132	352	218	3,960	120	62
7	90	100	110E	95	100E	155E	133	251	222	1,080	110	61
8	88	98	100E	97	98E	145E	131	229	226	522	105	62
9	87	97	120E	97	100E	150E	147	343	238	438	103	79
10	88	99	130E	86E	100E	145E	191	251	5,370	432	102	154
11	87	95	120E	86E	110E	150E	203	419	2,010	347	100	408
12	85	94	118E	90E	130E	150E	168	341	814	312	92	573
13	87	95	116E	96E	140E	159	148	257	532	291	86	221
14	88	95	114E	94E	145E	147	138	246	435	274	84	147
15	87	96	110	90E	130E	194	132	241	366	256	82	125
16	94	97	101	90E	100E	182	126	220	318	239	79	115
17	99	98	104	86E	86E	155	125	208	286	227	80	108
18	95	99	107	92E	96E	141	130	198	261	216	80	112
19	90	99	106	96E	150E	136	142	192	232	207	82	116
20	91	97	102	100E	200E	150	138	184	217	202	82	108
21	91	97	104	96E	760E	157	132	179	208	194	77	108
22	94	97	111	94E	200E	140	125	179	210	185	72	109
23	99	98	107	90E	112E	134	124	185	226	175	72	107
24	102	97	100E	88E	100E	134	128	192	2,240	171	70	100
25	103	99	90E	86E	96E	134	131	199	1,160	165	69	99
26	101	96E	106E	84E	100E	135	128	184	609	157	68	96
27	103	94E	120E	86E	125E	162	123	175	335	167	65	94
28	111	100E	110E	90E	150E	263	116	172	281	181	62	94
29	108	104	104E	94E	-----	209	115	172	247	158	61	94
30	110	102	100E	100E	-----	167	180	174	226	146	62	97
31	114	-----	100E	140E	-----	154	-----	171	-----	140	65	-----
TOTAL	2,951	2,964	3,316	2,920	4,093	4,888	4,166	7,660	18,540	12,096	2,756	3,776
MEAN	95.2	98.8	107	94.2	146	158	139	247	618	390	88.9	126
MAX	115	108	130	140	760	263	203	746	5,370	3,960	133	573
MIN	77	94	90	84	86	134	115	169	174	140	61	61
AC-FT	5,850	5,880	6,580	5,790	8,120	9,700	8,260	15,190	36,770	23,990	5,470	7,490
CAL YEAR 2002 TOTAL		52,040	MEAN	143	MAX	1,190	MIN	48	AC-FT	103,200		
WTR YEAR 2003 TOTAL		70,126	MEAN	192	MAX	5,370	MIN	61	AC-FT	139,100		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

HAIGLER CANAL from Republican River, 00061000 - 2003

LOCATION.--Sec. 2-1-43 W. near Laird, CO

GAGE.--Continuous stage recorder and 5 ft. Parshall flume

PERIOD OF RECORD.--1927, 1941, 1949 - 1956, 1962 - present

REMARKS.--Values furnished by the State of Colorado

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	6.2					0	35	17	21	18	17
2	22	0					0	36	16	17	17	17
3	22	0					0	30	16	16	17	16
4	22	0					0	30	19	15	17	16
5	22	0					0	29	24	15	17	15
6	22	0					0	28	23	14	16	16
7	24	0					0	26	25	15	16	16
8	25	0					0	24	25	15	16	16
9	25	0					0	22	24	15	14	17
10	25	0					0	31	24	13	14	19
11	26	0					0	36	25	12	13	21
12	26	0					0	30	26	11	13	21
13	26	0					0	26	18	12	13	21
14	25	0					15	25	11	12	13	20
15	25	0					28	26	18	12	19	28
16	25	0					31	30	22	15	20	25
17	25	0					28	20	21	14	15	23
18	25	0					27	9.2	21	12	13	22
19	24	0					26	19	22	11	20	21
20	24	0					26	26	21	13	15	19
21	24	0					26	26	19	14	15	13
22	25	0					27	25	18	13	14	11
23	25	0					25	23	18	13	13	10
24	24	0					26	21	19	13	13	18
25	25	0					27	21	17	13	14	20
26	25	0					26	21	17	14	14	18
27	16	0					28	20	15	14	13	21
28	14	0					28	18	11	15	15	21
29	14	0			-----		39	17	20	15	15	18
30	14	0			-----		35	17	28	18	14	20
31	13	-----			-----		-----	17	-----	17	17	-----
TOTAL	701	6.2					468	764.2	600	439	473	556
MEAN	22.6	.21					15.6	24.7	20.0	14.2	15.3	18.5
MAX	26	6.2					39	36	28	21	20	28
MIN	13	0					0	9.2	11	11	13	10
AC-FT	1,390	12					928	1,520	1,190	871	938	1,100
CAL YEAR 2002	MAX	38	MIN	0	AC-FT	8,570						
WTR YEAR 2003	MAX	39	MIN	0	AC-FT	7,950						

REPUBLICAN RIVER BASIN

HAIGLER CANAL from Republican River, 00061400 - 2003

LOCATION.--NE1/4NW1/4 Sec. 15-1-42 W. at Colorado - Nebraska State line

GAGE.--Continuous stage recorder and 4 ft. Parshall flume

PERIOD OF RECORD.--1985 - present

REMARKS.--Values furnished by the State of Colorado

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	7.2					0	19	11	9.8	12	13
2	10	0					0	25	12	11	12	13
3	14	0					0	25	12	9.2	12	10
4	13	0					0	26	12	11	13	8.5
5	13	0					0	23	17	11	12	7.5
6	14	0					0	17	18	11	11	7.1
7	14	0					0	16	17	11	12	7.6
8	13	0					0	17	20	11	12	8.2
9	12	0					0	19	18	11	12	8.6
10	10	0					0	25	16	10	12	10
11	12	0					0	34	16	9.2	10	13
12	19	0					0	29	15	8.3	9.3	13
13	16	0					0	25	14	8.4	8.7	14
14	13	0					5.7	25	9.9	7.6	8.8	13
15	18	0					24	25	14	6.9	11	17
16	20	0					25	28	17	10	12	17
17	22	0					25	24	13	11	11	15
18	21	0					20	10	11	8.2	7.3	15
19	19	0					18	16	12	7.8	14	17
20	23	0					21	25	10	10	9.1	17
21	24	0					21	24	8.0	12	9.7	13
22	24	0					18	23	7.8	10	9.8	9.5
23	24	0					18	23	9.2	9.9	8.1	9.5
24	25	0					22	21	12	9.7	6.8	10
25	25	0					19	21	11	9.5	7.1	9.5
26	24	0					14	20	9.8	10	8.0	6.5
27	18	0					18	20	13	11	8.4	6.2
28	11	0					21	19	12	11	9.7	9.4
29	12	0			-----		25	17	20	10	12	8.4
30	11	0			-----		19	15	20	12	12	9.2
31	9.8	-----			-----		-----	12	-----	11	13	-----
TOTAL	517.8	7.2					333.7	668	407.7	309.5	325.8	335.7
MEAN	16.7	.24					11.1	21.5	13.6	9.98	10.5	11.2
MAX	25	7.2					25	34	20	12	14	17
MIN	9.8	0					0	10	7.8	6.9	6.8	6.2
AC-FT	1,030	14					662	1,320	809	614	646	666
CAL YEAR 2002	MAX	25	MIN	0	AC-FT	5,910						
WTR YEAR 2003	MAX	34	MIN	0	AC-FT	5,760						

REPUBLICAN RIVER BASIN

HAIGLER CANAL SPILLBACK to Arikaree River, 00061500 - 2003

LOCATION.--NW1/4NE1/4 Sec. 36-1-42 W. near Haigler

GAGE.--Continuous stage recorder and 4 ft. Parshall flume

PERIOD OF RECORD.--1985, 1987 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	6.3						1.6	5.7	5.4	.24	.12E
2	5.1	2.6					0	5.6	4.3	6.4	.19	.15
3	3.5	.36					0	6.6	3.7	2.0	.30	.26
4	5.4	0					0	3.2	3.2	.91	.74	.15
5	4.1	0					0	5.8	5.3	2.1	.28	.07
6	4.1	0					0	5.6	6.9	2.5	.01	.07
7	5.1	0					0	4.5	7.0	3.7	0	.22
8	3.7	0					0	4.3	6.1	5.0	0	.07
9	3.8	0					0	5.2	4.1	4.1	0	.16
10	1.1	0					0	8.1	1.2	3.7	0	.14
11	1.1	0					0	17	2.2	.36	0	.52
12	5.1	0					0	14	7.9	.77	0	1.4
13	5.6	0					0	6.1	8.8	.61	0	1.4
14	3.3	0					0	3.2	6.3	1.0	0	1.7
15	6.5	0					17	3.0	.99	.21	0	2.8
16	9.9	0					25	9.0	11	.44	0	3.6
17	8.2	0					25	16	13	1.0	0	4.7 E
18	.58	0					23	5.1	11	.21	0	4.8 E
19	.36	0					19	5.0	12	.17	0	5.0 E
20	.36	0					17	15	9.8	.31	0	5.1 E
21	.36	0					15	11	5.6	.42	.07	5.3 E
22	.36	0					12	10	4.0	.04	.39	5.5 E
23	1.1	0					12	12	4.5	0	.22	5.5 E
24	.36	0					14	11	5.5	0	.02	5.6 E
25	.36	0					9.1	12	7.4	0	0	5.8 E
26	.76	0					2.4	11	5.4	0	.10	5.9 E
27	1.4	0					2.5	10	9.3	.02	.11	6.1 E
28	.75	0					2.6	8.6	12	.31	.12	6.2 E
29	1.8	0			-----		5.0	6.2	18	.14	.13	5.2 E
30	4.6	0			-----		4.9	7.4	25	.13	.04	4.8
31	5.9	-----			-----		-----	6.9	-----	.25	.10	-----
TOTAL	99.55	9.26					205.5	250.0	227.19	42.20	3.06	88.33
MEAN	3.21	.31					6.85	8.06	7.57	1.36	.099	2.94
MAX	9.9	6.3						17	25	6.4	.74	6.2
MIN	.36	0					0	1.6	.99	0	0	.07
AC-FT	197	18					408	496	451	84	6.1	175
CAL YEAR 2002 MAX		9.9	MIN	0	AC-FT	290						
WTR YEAR 2003 MAX			MIN	0	AC-FT	1,830						

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

SWANSON LAKE near Trenton, 06829000 - 2003

LOCATION.--SE1/4NE1/4 Sec. 5-2-33 W., Hitchcock County, Lat. 40° 10' 10", Long. 101° 03' 35", in gate control house at right end of spillway on downstream side of Trenton Dam on Republican River, 2.5 miles west of Trenton.

GAGE.--Continuous stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--8,620 square miles, of which approximately 3,940 square miles contributes directly to surface runoff.

PERIOD OF RECORD.--May 1953 - present

REMARKS.--Values from the U.S. Bureau of Reclamation Great Plains Region web page.
Published by U. S. Geological Survey up to October 1, 1994.

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22,448	22,105	21,904	21,844	22,855	25,130	27,816	31,264	32,748	32,096	30,419	28,967
2	22,408	22,105	21,904	21,844	22,998	25,258	27,861	31,405	32,943	32,072	30,373	28,922
3	22,408	22,105	21,904	21,844	23,182	25,408	27,928	31,642	32,919	32,024	30,303	28,899
4	22,448	22,085	21,864	21,904	23,244	25,537	27,951	31,714	32,919	31,976	30,256	28,854
5	22,428	22,085	21,844	21,924	23,450	25,601	27,973	31,928	32,919	31,904	30,233	28,808
6	22,408	22,105	21,824	21,944	23,512	25,644	28,018	31,976	32,894	31,856	30,163	28,740
7	22,387	22,085	21,824	21,964	23,595	25,774	28,198	32,024	32,894	31,809	30,094	28,672
8	22,327	22,085	21,844	22,025	23,657	25,903	28,265	32,072	32,894	31,785	30,047	28,627
9	22,286	22,045	21,844	22,045	23,699	25,925	28,333	32,264	32,870	31,785	30,047	28,717
10	22,266	22,045	21,844	22,085	23,740	25,925	28,423	32,264	32,870	31,714	30,047	28,831
11	22,246	22,025	21,844	22,105	23,782	25,968	28,536	32,312	32,845	31,642	30,024	28,763
12	22,206	22,025	21,844	22,125	23,928	26,055	28,627	32,384	32,821	31,571	29,978	28,740
13	22,185	22,004	21,844	22,145	23,990	26,142	28,695	32,408	32,748	31,500	29,908	28,672
14	22,165	22,025	21,844	22,165	24,074	26,207	28,717	32,457	32,724	31,429	29,839	28,627
15	22,145	22,025	21,824	22,185	24,179	26,272	28,717	32,481	32,699	31,405	29,770	28,581
16	22,125	22,004	21,824	22,347	24,283	26,359	28,808	32,554	32,675	31,311	29,701	28,559
17	22,105	22,004	21,824	22,367	24,368	26,403	28,854	32,626	32,651	31,216	29,655	28,513
18	22,065	22,004	21,824	22,408	24,473	26,512	28,922	32,675	32,675	31,169	29,563	28,468
19	22,045	21,984	21,824	22,448	24,515	26,753	29,127	32,724	32,651	31,051	29,540	28,400
20	22,025	21,984	21,864	22,468	24,599	26,951	29,333	32,699	32,602	31,028	29,471	28,333
21	22,004	21,964	21,864	22,509	24,769	27,061	29,540	32,699	32,578	31,004	29,448	28,288
22	21,984	21,964	21,884	22,529	24,832	27,194	29,586	32,699	32,505	30,934	29,356	28,243
23	22,004	21,944	21,884	22,549	24,896	27,304	29,632	32,724	32,457	30,887	29,310	28,243
24	22,004	21,924	21,884	22,570	24,938	27,371	29,862	32,748	32,457	30,817	29,218	28,198
25	21,984	21,924	21,864	22,570	24,875	27,460	30,047	32,772	32,384	30,746	29,150	28,175
26	21,984	21,904	21,864	22,590	24,896	27,549	30,140	32,772	32,288	30,699	29,104	28,130
27	22,045	21,904	21,864	22,610	24,938	27,571	30,186	32,772	32,216	30,629	29,036	28,063
28	22,065	21,884	21,864	22,631	25,002	27,660	30,210	32,797	32,192	30,559	29,150	27,996
29	22,025	21,884	21,864	22,651	-----	27,705	30,466	32,797	32,120	30,512	29,150	27,973
30	22,065	21,904	21,864	22,671	-----	27,727	31,028	32,797	32,120	30,489	29,059	27,884
31	22,085	-----	21,864	22,712	-----	27,772	-----	32,748	-----	30,466	29,013	-----
MAX	22,448	22,105	21,904	22,712	25,002	27,772	31,028	32,797	32,943	32,096	30,419	28,967
MIN	21,984	21,884	21,824	21,844	22,855	25,130	27,816	31,264	32,120	30,466	29,013	27,884
CHANGE	-385	-181	-40.0	848	2,290	2,770	3,256	1,720	-628	-1,654	-1,453	-1,129
CAL YEAR 2002			MEAN	26,061	MAX	33,510	MIN	19,510				
WTR YEAR 2003			MEAN	26,882	MAX	32,943	MIN	21,824				

REPUBLICAN RIVER BASIN

REPUBLICAN RIVER near Trenton, 00126700 - 2003

LOCATION.--SE1/4NE1/4 Sec. 5-2-33 W., Hitchcock County, Lat. 40° 10' 10", Long. 101° 03' 35", in gate control house at right end of spillway on downstream side of Trenton Dam, 2.5 miles west of Trenton.

DRAINAGE AREA.--8,620 square miles, of which approximately 3,940 square miles contributes to surface runoff.

GAGE.--Rating of two 6'x 7.5' control gates.

PERIOD OF RECORD.--1995 - present; prior record was for Republican River at Trenton gage, 06829500, located 0.9 miles downstream.

REMARKS.--Current record for period June through August for gate releases from Swanson Reservoir. Record for Republican River at Trenton, 06829500, located 0.9 miles downstream was published by U.S. Geological Survey 1946 - 1993 and Department of Water Resources 1994.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP

NO RELEASE OF WATER FROM SWANSON RESERVOIR MADE IN 2003 WATER YEAR.

REPUBLICAN RIVER BASIN

MEEKER-DRIFTWOOD CANAL from Republican River, 00087000 - 2003

LOCATION.--SW1/4NW1/4 Sec. 9-2-33 W. below Trenton Dam

GAGE.--Continuous stage recorder and 12 ft. Parshall flume

PERIOD OF RECORD.--1957 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

NO WATER DIVERTED IN 2003												
CAL YEAR 2002	MAX	222	MIN	0	AC-FT	9,890						
WTR YEAR 2003	MAX	0	MIN	0	AC-FT	0						

REPUBLICAN RIVER BASIN

FRENCHMAN CREEK near Imperial, 06831500 - 2003

LOCATION.--SW1/4NW1/4 Sec. 3-5-38 W., Chase County, Lat. 40°25'45", Long. 101°37'25", on right bank, 0.2 mile downstream from bridge on county road; 5.8 miles upstream from Enders Dam; 1 mile east and 6.1 miles south of Imperial.

DRAINAGE AREA.--880 square miles, approximately 720 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Elevation of the gage is approximately 3130 feet from topographic map.

PERIOD OF RECORD.--1940 - present (published as Frenchman River near Imperial 1965-1972)

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are fair.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 2,340 cubic feet per second March 22, 1960, gage height 8.43 ft.; minimum daily discharge 1.7 cubic feet per second July 24 & 25, 2003.

EXTREMES FOR CURRENT YEAR.--Peak discharge 14 cubic feet per second March 20, gage height 1.25 feet; minimum daily discharge 1.7 cubic feet per second July 24 & 25.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	5.8	5.4	5.9	5.9	7.9	8.3	10	6.5	4.7	3.0	2.7
2	5.1	5.9	5.4	5.8	5.9	7.8	8.1	11	7.0	4.7	2.9	2.6
3	5.0	6.0	5.4	5.8	6.2	7.6	7.3	10	6.4	4.9	2.6	2.5
4	4.9	5.9	5.4	5.9	6.2	7.6	7.3	9.7	5.8	5.2	2.4	2.6
5	4.8	5.6	5.4	6.0	6.2	7.4	7.1	8.8	6.1	5.3	2.2	2.6
6	4.8	5.4	5.5	6.0	6.2	9.0	8.2	8.4	6.9	5.4	2.1	2.6
7	4.8	5.4	5.6	5.9	5.9	8.0	8.3	8.3	6.9	5.2	2.2	2.6
8	4.8	5.3	5.6	6.0	6.1	7.5	8.8	8.4	6.5	5.2	2.2	2.8
9	5.0	5.3	5.6	5.8	6.3	7.3	9.2	8.1	6.2	4.6	2.0	4.1
10	5.0	5.2	5.5	5.9	6.1	7.3	8.7	8.8	6.1	4.3	2.1	3.7
11	5.0	5.2	5.4	5.9	6.2	7.1	8.3	9.0	5.9	3.8	2.2	3.4
12	5.0	5.2	5.4	6.0	6.2	7.2	8.0	8.9	6.0	3.4	2.3	3.3
13	5.2	5.2	5.4	6.0	6.1	7.4	7.8	8.5	6.2	3.2	2.1	3.1
14	5.2	5.2	5.5	6.0	6.3	7.4	8.0	7.9	6.1	2.9	2.2	3.0
15	5.0	5.2	5.6	6.0	6.4	7.3	7.1	7.7	6.2	2.5	2.2	3.0
16	5.0	5.2	5.6	5.6	6.2	7.0	7.3	7.6	6.1	2.3	2.1	2.9
17	5.2	5.2	5.6	6.0	6.6	7.0	7.0	6.8	6.4	2.1	2.1	2.8
18	5.2	5.2	5.6	6.1	7.2	9.2	7.7	6.5	6.0	1.9	2.4	2.8
19	5.0	5.4	5.6	6.2	7.3	12	7.3	6.6	5.8	1.9	2.6	2.9
20	5.2	5.4	5.5	5.8	7.3	13	6.6	6.5	5.7	1.8	2.5	3.0
21	5.6	5.4	5.6	5.8	7.3	14	6.1	6.7	5.7	1.9	2.6	3.0
22	5.9	5.4	5.6	5.8	7.0	12	6.1	6.7	5.3	2.1	2.6	3.0
23	6.1	5.4	5.7	5.8	7.2	11	6.5	6.7	5.1	1.9	2.4	2.9
24	6.0	5.4	5.6	5.9	7.0	10	8.6	6.8	5.0	1.7	2.1	2.9
25	6.0	5.4	5.6	6.0	7.0	9.3	9.3	6.8	4.9	1.7	2.0	3.0
26	6.0	5.4	5.5	5.9	7.4	9.5	9.3	6.7	4.7	1.8	2.1	3.0
27	6.1	5.4	5.5	6.0	7.7	9.4	8.8	6.6	5.1	1.9	2.2	2.9
28	5.8	5.4	5.6	6.0	7.6	8.5	8.2	6.6	5.2	2.3	2.9	2.9
29	6.3	5.4	5.6	6.2	-----	8.2	8.7	6.4	4.9	3.1	2.7	3.0
30	6.3	5.4	5.7	6.2	-----	7.6	11	6.0	4.8	3.1	2.5	3.1
31	5.8	-----	5.8	6.2	-----	7.4	-----	6.0	-----	2.9	2.7	-----
TOTAL	165.1	162.2	171.8	184.4	185.0	268.9	239.0	239.5	175.5	99.7	73.2	88.7
MEAN	5.33	5.41	5.54	5.95	6.61	8.67	7.97	7.73	5.85	3.22	2.36	2.96
MAX	6.3	6.0	5.8	6.2	7.7	14	11	11	7.0	5.4	3.0	4.1
MIN	4.0	5.2	5.4	5.6	5.9	7.0	6.1	6.0	4.7	1.7	2.0	2.5
AC-FT	327	322	341	366	367	533	474	475	348	198	145	176
CAL YEAR 2002	TOTAL	2,700.60	MEAN	7.40	MAX	13	MIN	2.8	AC-FT	5,360		
WTR YEAR 2003	TOTAL	2,053.00	MEAN	5.62	MAX	14	MIN	1.7	AC-FT	4,070		

REPUBLICAN RIVER BASIN

FRENCHMAN CREEK near Enders, 06832500 - 2003

LOCATION.--NW1/4NW1/4 Sec. 10-5-37 W., Chase County, Latitude 40°25'15", Long. 101°30'35", on left bank about 75 feet downstream from county bridge, about 1/4 mile downstream from Enders Dam and Highway 61, and 2.5 miles southeast of Enders.

DRAINAGE AREA.--950 square miles; approximately 790 square miles contributes directly to surface runoff. Almost all drainage above gage is controlled by Enders Dam.

GAGE.--Continuous stage recorder. Gage datum is 3,026.22 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1946 - 1994 continuous all year record, 1995 - presently operated during irrigation season when water is released from Enders Reservoir.

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1993.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14										36E		
15										36		
16										37		
17										37		
18										38		
19										38		
20										39		
21										39		
22										36		
23										32		
24										30		
25										29		
26										27		
27										27		
28										26		
29										25		
30										27E		
31		-----					-----		-----			-----
TOTAL										559		
MEAN										32.9		
MAX										39		
MIN										25		
AC-FT										1,110		
CAL YEAR 2002	MAX	129	MIN	0	AC-FT	4,620						
WTR YEAR 2003	MAX	39	MIN	25	AC-FT	1,110						

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

STINKING WATER CREEK near Palisade, 06835000 - 2003

LOCATION.--SW1/4NW1/4 Sec. 30-5-33 W., Hayes County, Lat. 40°22'10", Long. 101°06'50", on right bank 25 feet downstream from 96 inch corrugated metal pipe, 1.25 miles upstream from mouth, and 1.75 miles northwest of Palisade.

DRAINAGE AREA.--Approximately 1,500 square miles; approximately 380 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,750.99 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1949 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are good except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 3,030 cubic feet per second on June 17, 1956, gage height 11.30 feet; minimum daily discharge 2.6 cubic feet per second August 8, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharge 96 cubic feet per second April 29, gage height 4.59 feet; minimum daily discharge 3.2 cubic feet per second August 25 & 26.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	11	13	14E	14	15E	18	25	9.5	14	4.3E	4.9
2	7.1	11	13	13E	15	16	17	27	9.4	14	4.2E	4.9
3	8.1	11	12	12E	18	17	17	27	9.5	14	4.1E	4.6
4	8.8	11	12	13	19	18	17	25	9.9	12	4.0E	5.0
5	8.4	11	12	13	17	17E	17	23	10	11	3.8	4.8
6	8.5	11	13	13	16E	16	18	21	11	11	4.1	4.6
7	8.5	11	12	13	15E	16	19	20	12	10	4.1	4.7
8	8.4	11	12	13	15E	17	19	20	12	9.9	10	4.8
9	8.4	12	13	13	14E	17	20	20	13	9.4	4.3	5.8
10	8.3	11	13	12E	13E	17	22	22	13	9.0	4.6	5.7
11	8.3	11	13	12E	14	17	22	21	13	8.5	4.7	6.1
12	7.7	12	12	11E	15	17	22	21	14	8.1	4.9	5.6
13	8.3	11	12	12E	15	17	21	21	14	7.9	4.6	5.5
14	8.9	12	12	12	16	17	19	20	15	7.6	4.4	5.7
15	8.0	12	12	11E	16	17	19	19	15	7.7E	4.3	5.9
16	8.4	12	12	10E	16	17	20	19	16	7.4E	4.0	5.8
17	8.0	11	12	11E	15	17	23	19	19	7.3E	4.2	5.9
18	8.4	11	12	11E	16	19	24	19	24	7.1E	3.9	6.3
19	8.4	12	12	11E	16	23	23	18	28	7.0E	3.9	6.4
20	8.2	12	12E	12E	16	27	22	17	23	6.7E	4.2	7.1
21	8.4	12	11E	13	16E	25	21	17	32	6.6E	4.0	7.4
22	8.5	12	11E	13	15E	23	20	16	28	6.4E	3.8	7.7
23	8.9	12	10E	12E	14E	21	22	15	22	6.2E	3.7	7.9
24	8.9	12	10E	11E	12E	20	23	15	20	5.9E	3.5	5.3
25	9.3	12	11E	11E	11E	19	25	14	20	5.7E	3.2	5.3
26	9.6	11E	12E	12E	12E	19	25	13	59	5.3E	3.2	5.2
27	11	10E	13E	12E	13E	19	23	13	28	5.1E	3.7	5.2
28	11	11E	13E	12E	14E	18	22	12	17	4.9E	4.4	5.2
29	12	12	14E	12E	-----	18	49	11	16	4.8E	4.0	5.3
30	13	12	15E	13E	-----	18	27	11	16	4.6E	4.3	5.5
31	11	-----	14E	13E	-----	18	-----	9.9	-----	4.4E	4.5	-----
TOTAL	275.6	343	380	376	418	572	656	570.9	548.3	249.5	132.9	170.1
MEAN	8.89	11.4	12.3	12.1	14.9	18.5	21.9	18.4	18.3	8.05	4.29	5.67
MAX	13	12	15	14	19	27	49	27	59	14	10	7.9
MIN	6.9	10	10	10	11	15	17	9.9	9.4	4.4	3.2	4.6
AC-FT	547	680	754	746	829	1,130	1,300	1,130	1,090	495	264	337
CAL YEAR 2002 TOTAL		4,372.50	MEAN	12.0	MAX	30	MIN	2.6	AC-FT	8,670		
WTR YEAR 2003 TOTAL		4,692.30	MEAN	12.9	MAX	59	MIN	3.2	AC-FT	9,310		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

CULBERTSON CANAL from Frenchman River, 00035000 - 2003

LOCATION.--SW1/4NW1/4 Sec. 32-5-33 W. near Palisade

GAGE.--Continuous stage recorder and Parshall flume

PERIOD OF RECORD.--1920 - present

REMARKS.--Values are furnished by United States Bureau of Reclamation.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0	30	26	26	32	20	
2						0	31	25	27	31	19	
3						0	33	24	27	30	19	
4						6.7	37	24	28	28	18	
5						5.7	36	25	28	25	17	
6						5.7	34	24	28	23	16	
7						9.4	32	24	28	22	11	
8						12	29	24	29	21	19	
9						13	29	24	29	20	13	
10						13	29	23	30	19	10	
11						12	29	23	30	17	11	
12						22	31	23	30	16	12	
13						27	34	23	30	16	11	
14						34	35	23	30	20	6.3	
15						37	38	22	30	25	0	
16						34	38	22	29	26	0	
17						20	36	22	28	26	0	
18						20	36	22	29	26	0	
19						20	34	22	29	25	0	
20						19	34	22	28	25	0	
21						19	33	22	28	25	0	
22						18	31	22	28	26	0	
23						18	31	22	30	26	0	
24						18	31	22	29	26	0	
25						17	30	22	31	25	0	
26						21	28	22	32	23	0	
27						23	28	22	32	22	0	
28						22	28	22	32	22	0	
29					-----	21	29	24	32	22	0	
30					-----	21	28	25	32	22	0	
31	-----				-----	27	-----	25	-----	21	0	-----
TOTAL						535.5	962	717	879	733	202.3	
MEAN						17.3	32.1	23.1	29.3	23.6	6.53	
MAX						37	38	26	32	32	20	
MIN						0	28	22	26	16	0	
AC-FT						1,060	1,910	1,420	1,740	1,450	401	
CAL YEAR 2002	MAX	103	MIN	0	AC-FT	8,970						
WTR YEAR 2003	MAX	38	MIN	0	AC-FT	7,990						

REPUBLICAN RIVER BASIN

RIVERSIDE CANAL from Frenchman River, 00127000 - 2003

LOCATION.--NE1/4SE1/4 Sec. 33-4-32 W. near Culbertson

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1920 - 1925, 1927, 1937 - 1941, 1953 - 1958, 1963 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0	12 E	0	4.7	9.1	0	
2						0	11 E	1.2	5.7	4.5	.86	
3						0	11 E	3.6	5.3	0	.96	
4						0	11 E	3.8	5.2	2.1	.65E	
5						.33	11 E	3.9	5.8	3.6	0 E	
6						2.3	11 E	4.0	6.4	4.7	0 E	
7						5.1	11 E	4.1	7.2	4.0	0 E	
8						5.6	11 E	4.7	7.6	5.1	0 E	
9						5.5	11 E	5.7	8.2	2.8	0 E	
10						5.4	11 E	6.5	7.8	.81	.22E	
11						5.3	12 E	7.3	6.0	.07	.40E	
12						5.4	11 E	7.4	5.4	0	.15E	
13						5.7	9.7E	7.4	5.5	1.0	0 E	
14						6.1	8.5E	7.9	5.3	1.1	0 E	
15						6.4	7.3E	7.9	4.9	.97	0	
16						6.8	6.2E	8.1	4.5	.60	.04	
17						7.1	5.1E	8.0	4.6	0		
18						7.5	4.2E	8.3	5.6	0		
19						7.9	3.3E	8.3	12	0		
20						8.2	2.4E	7.7	11	0		
21						8.6	4.0E	7.7	11	0		
22						9.0	8.1E	7.7	14	0		
23						9.4	9.1E	7.5	16	.43		
24						9.8	3.6E	7.4	14	.04		
25						10	3.2E	7.0	12	.05		
26						11	3.2E	6.6	12	1.0		
27						11	2.9E	6.3	20	.06		
28						12	2.8E	5.8	16	0		
29					-----	12	2.7E	5.5	11	0		
30					-----	12	1.7E	5.0	9.6	0		
31		-----			-----	13	-----	4.7	-----	0		-----
TOTAL						208.43	222.0	187.0	264.3	42.03	3.28	
MEAN						6.72	7.40	6.03	8.81	1.36	.21	
MAX						13	12	8.3	20	9.1	.96	
MIN						0	1.7	0	4.5	0	0	
AC-FT						413	440	371	524	83	6.5	
CAL YEAR 2002 MAX		17	MIN	0	AC-FT	805						
WTR YEAR 2003 MAX		20	MIN	0	AC-FT	1,840						

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

RED WILLOW CREEK above Hugh Butler Lake, 06837300 - 2003

LOCATION.--NE1/4SE1/4 Sec. 13-5-31 W., Hayes County, Lat. 40°24'05", Long. 100°46'45", on the left bank 15 feet upstream from the County road bridge; 7.0 miles upstream from Red Willow Dam; 12 miles northeast of Culbertson and 16 miles north west of McCook.

DRAINAGE AREA.--Approximately 600 square miles; approximately 200 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,588.80 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1960 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 4,020 cubic feet per second June 16, 1972, gage height 13.27 feet (at different datum); minimum daily discharge 1.7 cubic feet per second August 26, 2003.

EXTREMES FOR CURRENT YEAR.--Peak discharge 92 cubic feet per second June 28, gage height 4.75 feet; minimum daily discharge 1.7 cubic feet per second August 26.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	13	12	11 E	12 E	13E	13	40	6.9	14	2.3	3.7
2	6.4	12	13	10 E	13 E	15E	13	26	7.8	11	2.8	2.9
3	7.2	12	13	9.9E	11 E	17	13	24	7.9	9.8	2.9	2.7
4	7.6	12	13	9.8E	10 E	17E	14	22	8.7	8.1	2.8	2.8
5	7.7	12	13	9.7E	9.5E	16E	14	21	8.2	7.2	2.7	3.1
6	8.2	11	12 E	9.8E	9.2E	16E	15	20	9.0	6.5	2.6	2.3
7	8.1	11	11 E	9.9E	8.9E	15	16	21	10	6.0	2.8	2.3
8	7.8	11	12 E	10 E	8.5E	15	16	20	10	6.3	2.9	3.2
9	7.4	11	11 E	9.8E	8.8E	15	17	19	9.9	5.8	2.8	3.7
10	7.8	11	11 E	9.7E	9.0E	15	18	19	9.6	5.5	3.4	5.3
11	7.7	11	12 E	9.4E	9.3E	14	18	19	9.4	5.4	3.2	4.0
12	7.4	11	12 E	9.0E	9.6E	14	18	18	9.2	5.0	3.6	4.4
13	7.7	11	11 E	8.7E	10 E	14	17	18	9.4	4.5	3.7	5.1
14	7.8	11	11 E	8.6E	9.5E	14	17	17	11	4.3	2.5	5.0
15	8.1	11	12 E	8.5E	9.0E	15	16	16	12	3.9	3.6	4.0
16	8.3	11	12	8.1E	9.0E	15	17	15	14	4.1	2.8	4.0
17	8.4	11	12	8.0E	9.3E	15	19	17	14	3.7	2.8	5.0
18	8.2	11	12	8.2E	9.5E	16	18	18	12	3.3	2.6	4.8
19	8.8	11	13	8.3E	9.8E	18	18	20	11	3.6	3.0	4.5
20	8.8	11	12 E	8.5E	9.4E	18	18	17	12	3.8	2.9	4.6
21	8.8	11	11 E	8.1E	9.0E	18	18	15	11	4.0	3.0	4.6
22	9.0	11	11 E	7.8E	8.5E	18	18	14	11	3.9	3.1	4.5
23	9.8	11	10 E	7.4E	8.1E	17	20	13	8.6	3.6	3.0	4.8
24	11	11	9.0E	8.1E	7.7E	16	25	12	8.6	3.5	2.3	4.6
25	11	11	9.3E	8.8E	7.3E	16	26	11	24	3.1	2.2	4.6
26	11	10 E	9.5E	9.5E	8.0E	15	26	10	20	2.5	1.7	4.6
27	12	9.5E	9.3E	10 E	9.0E	14	23	9.4	30	2.7	1.9	4.4
28	13	10 E	10 E	11 E	11 E	14	22	8.7	77	2.7	2.7	4.7
29	14	11 E	11 E	12 E	-----	14	35	8.0	29	2.3	4.2	5.2
30	14	12	10 E	12 E	-----	13	30	7.5	16	2.6	3.2	4.6
31	13	-----	11 E	13 E	-----	13	-----	7.3	-----	2.2	3.1	-----
TOTAL	282.2	333.5	351.1	292.6	262.9	475	568	522.9	437.2	154.9	89.1	124.0
MEAN	9.10	11.1	11.3	9.44	9.39	15.3	18.9	16.9	14.6	5.00	2.87	4.13
MAX	14	13	13	13	13	18	35	40	77	14	4.2	5.3
MIN	6.2	9.5	9.0	7.4	7.3	13	13	7.3	6.9	2.2	1.7	2.3
AC-FT	560	661	696	580	521	942	1,130	1,040	867	307	177	246
CAL YEAR 2002	TOTAL	4,000.10	MEAN	11.0	MAX	86	MIN	1.9	AC-FT	7,930		
WTR YEAR 2003	TOTAL	3,893.40	MEAN	10.7	MAX	77	MIN	1.7	AC-FT	7,720		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

HUGH BUTLER LAKE near McCook, 06837390 - 2003

LOCATION.--SW1/4NW1/4 Sec. 31-5-29 W., Frontier County, Lat. 40° 21' 35", 100° 39' 55", in gate control house at outlet tube of Red Willow Dam on Red Willow Creek, 12 miles north of McCook.

DRAINAGE AREA.--730 square miles, of which approximately 310 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--September 1961 - present

REMARKS.--Values from the U.S. Bureau of Reclamation Great Plains Region web page.
Published by U. S. Geological Survey up to October 1, 1994.

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11,294	11,730	12,176	12,657	13,247	13,926	14,707	16,038	16,467	17,150	16,437	15,724
2	11,326	11,755	12,193	12,675	13,274	13,953	14,735	16,117	16,527	17,150	16,427	15,704
3	11,318	11,772	12,210	12,692	13,346	13,981	14,754	16,157	16,537	17,150	16,397	15,685
4	11,384	11,789	12,227	12,718	13,346	14,009	14,764	16,197	16,537	17,129	16,366	15,655
5	11,375	11,822	12,236	12,744	13,364	14,018	14,773	16,227	16,558	17,119	16,346	15,636
6	11,375	11,822	12,253	12,762	13,390	14,036	14,792	16,237	16,547	17,098	16,316	15,607
7	11,375	11,847	12,270	12,788	13,399	14,082	14,858	16,256	16,568	17,088	16,286	15,587
8	11,392	11,856	12,287	12,814	13,408	14,110	14,849	16,256	16,558	17,098	16,256	15,568
9	11,392	11,864	12,304	12,832	13,444	14,119	14,868	16,296	16,558	17,078	16,246	15,558
10	11,400	11,872	12,321	12,841	13,489	14,128	14,896	16,306	16,558	17,047	16,227	15,578
11	11,416	11,898	12,330	12,849	13,507	14,165	14,925	16,326	16,558	17,026	16,217	15,568
12	11,416	11,923	12,347	12,867	13,535	14,193	14,953	16,346	16,934	16,985	16,187	15,539
13	11,416	11,931	12,372	12,884	13,562	14,212	14,972	16,366	16,985	16,955	16,167	15,520
14	11,416	11,956	12,398	12,902	13,589	14,175	14,991	16,467	16,985	16,944	16,137	15,500
15	11,416	11,973	12,415	12,920	13,607	14,202	15,010	16,386	16,975	16,914	16,107	15,481
16	11,416	11,990	12,433	12,928	13,634	14,230	15,394	16,407	16,965	16,862	16,078	15,471
17	11,425	12,007	12,450	12,937	13,652	14,249	15,326	16,427	16,955	16,852	16,048	15,452
18	11,433	12,024	12,467	12,946	13,679	14,305	15,336	16,447	16,975	16,811	16,008	15,452
19	11,433	12,024	12,484	12,964	13,698	14,472	15,355	16,477	16,965	16,781	15,959	15,394
20	11,441	12,032	12,510	12,981	13,725	14,529	15,375	16,457	16,944	16,760	15,939	15,375
21	11,449	12,057	12,510	12,999	13,752	14,510	15,394	16,447	16,944	16,740	15,920	15,365
22	11,449	12,066	12,519	13,025	13,780	14,547	15,404	16,457	16,934	16,720	15,890	15,355
23	11,474	12,083	12,519	13,034	13,798	14,575	15,423	16,477	16,934	16,699	15,851	15,336
24	11,507	12,091	12,519	13,052	13,825	14,594	15,520	16,487	16,924	16,649	15,821	15,317
25	11,515	12,100	12,536	13,070	13,834	14,613	15,714	16,487	16,985	16,628	15,792	15,298
26	11,532	12,117	12,545	13,087	13,853	14,632	15,763	16,487	16,985	16,598	15,763	15,288
27	11,581	12,117	12,562	13,105	13,871	14,660	15,802	16,477	16,985	16,578	15,743	15,269
28	11,614	12,125	12,571	13,123	13,908	14,669	15,831	16,487	17,016	16,537	15,831	15,240
29	11,631	12,142	12,588	13,158	-----	14,669	15,900	16,487	17,140	16,517	15,812	15,221
30	11,705	12,159	12,614	13,185	-----	14,679	15,989	16,497	17,160	16,487	15,782	15,202
31	11,705	-----	12,640	13,221	-----	14,688	-----	16,487	-----	16,467	15,753	-----
MAX	11,705	12,159	12,640	13,221	13,908	14,688	15,989	16,497	17,160	17,150	16,437	15,724
MIN	11,294	11,730	12,176	12,657	13,247	13,926	14,707	16,038	16,467	16,467	15,743	15,202
CHANGE	415	454	481	581	687	780	1,301	498	673	-693	-714	-551
CAL YEAR 2002			MEAN	15,846	MAX	20,740	MIN	10,990				
WTR YEAR 2003			MEAN	14,458	MAX	17,160	MIN	11,294				

REPUBLICAN RIVER BASIN

RED WILLOW CANAL from Red Willow Creek, 00126000 - 2003

LOCATION.--SW1/4SE1/4 Sec 25-4-29 W. near Red Willow

GAGE.--Continuous stage recorder and orifice

PERIOD OF RECORD.--1963 - present

REMARKS.--Values furnished by United States Bureau of Reclamation

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP

NO WATER DIVERTED IN 2003

CAL YEAR 2002	MAX	92	MIN	0	AC-FT	3,400
WTR YEAR 2003	MAX	0	MIN	0	AC-FT	0

REPUBLICAN RIVER BASIN

BARTLEY CANAL from Republican River, 00006000 - 2003

LOCATION.--NW1/4SW1/4 Sec. 16-3-27 W. near Indianola

GAGE.--Continuous stage recorder and 8 ft. Parshall flume

PERIOD OF RECORD.--1955 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP

NO WATER DIVERTED IN 2003												
CAL YEAR 2002	MAX	88	MIN	0	AC-FT	3,580						
WTR YEAR 2003	MAX	0	MIN	0	AC-FT	0						

REPUBLICAN RIVER BASIN

MEDICINE CREEK above Harry Strunk Lake, 06841000 - 2003

LOCATION.--SW1/4 Sec. 7-6-26 W., Frontier County, Lat. 40°30'10", Long. 100°19'20", on right bank 3.75 miles southeast of Stockville and 13.5 miles upstream from Medicine Creek Dam.

DRAINAGE AREA.--770 square miles, of which approximately 530 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 2,380.94 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1950 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except discharges above 125 cubic feet per second are fair and estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 11,600 cubic feet per second June 21, 1967, gage height 20.05 feet; minimum daily discharge 7.1 cubic feet per second August 8, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,200 cubic feet per second June 26, gage height 14.10 feet; minimum daily discharge 11 cubic feet per second September 8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	39	37	37E	42	38E	42	97	36	66	18	15
2	19	37	37	39E	42	40E	42	105	40	47	18	14
3	21	37	37	40E	43	43E	42	76	35	43	18	12
4	23	36	37	38	42	42	41	70	38	40	18	12
5	25	35	37	38	40	41E	40	61	39	36	17	13
6	26	35	36E	38	40	40E	39E	55	36	34	16	12
7	25	35	35E	37	39E	41	38E	50	37	32	15	12
8	25	35	36	38	38E	41	37E	48	38	32	16	11
9	26	34	35E	38	38E	41	45	47	38	31	16	12
10	26	34	34E	37E	39E	40	47	51	36	30	21	14
11	27	34	36E	36	40	41	47	51	34	29	19	15
12	26	34	37	37E	40	41	44	51	34	27	18	16
13	26	34	37	37E	41	43	42	48	41	27	17	16
14	27	35	37	38E	43	44	40	46	39	27	16	15
15	27	35	36	39E	44	46	48	44	41	24	16	15
16	28	35	37	30E	45	46	52	44	37	22	15	15
17	28	35	37	31E	44	47	45	44	34	21	15	15
18	29	35	37	33E	44	49	48	45	31	19	14	15
19	28	35	38	34E	45	53	46	46	34	19	15	15
20	28	34	39	36E	45	56	46	43	32	20	14	15
21	29	34	37E	34E	44	54	42	41	31	20	14	15
22	30	34	36	32E	45	51	41	40	27	20	14	16
23	31	35	32E	30E	43	48	42	40	25	20	14	17
24	31	35	30E	28E	35	47	56	40	83	19	14	16
25	33	36	31E	31E	32E	44	70	39	360	18	12	17
26	33	36	32E	32E	30E	44	65	39	731	18	13	16
27	37	35E	34E	31E	33E	44	59	38	275	17	12	16
28	37	35E	36E	34E	35E	42	57	37	189	18	13	16
29	40	36	37E	36E	-----	42	60	35	143	17	14	17
30	40	36	36E	39E	-----	42	74	34	92	17	15	18
31	39	-----	35E	42	-----	42	-----	33	-----	23	15	-----
TOTAL	888	1,055	1,108	1,100	1,131	1,373	1,437	1,538	2,686	833	482	443
MEAN	28.6	35.2	35.7	35.5	40.4	44.3	47.9	49.6	89.5	26.9	15.5	14.8
MAX	40	39	39	42	45	56	74	105	731	66	21	18
MIN	18	34	30	28	30	38	37	33	25	17	12	11
AC-FT	1,760	2,090	2,200	2,180	2,240	2,720	2,850	3,050	5,330	1,650	956	879
CAL YEAR 2002	TOTAL	12,150.60	MEAN	33.3	MAX	65	MIN	7.1	AC-FT	24,100		
WTR YEAR 2003	TOTAL	14,074.00	MEAN	38.6	MAX	731	MIN	11	AC-FT	27,920		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

HARRY STRUNK LAKE near Cambridge, 06842000 - 2003

LOCATION.--NE1/4 Sec. 25-5-26 W., Frontier County, Lat. 40° 22' 40", Long. 100° 13' 00", in control house at outlet tube of Medicine Creek Dam, 7 miles northeast of Cambridge.

DRAINAGE AREA.--880 square miles, of which approximately 640 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--August 1949 - present

REMARKS.--Values from the U.S. Bureau of Reclamation Great Plains Region web page.
Published by U. S. Geological Survey up to October 1, 1994.

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12,856	14,453	16,293	18,228	20,333	22,500	24,987	27,859	30,320	34,113	23,400	16,333
2	12,899	14,508	16,363	18,304	20,439	22,587	25,068	28,007	30,560	34,007	23,093	16,353
3	12,916	14,581	16,423	18,369	20,580	22,663	25,148	28,186	30,625	33,725	22,789	16,383
4	13,019	14,636	16,483	18,445	20,603	22,763	25,216	28,306	30,690	33,340	22,475	16,393
5	13,036	14,719	16,544	18,522	20,698	22,839	25,256	28,426	30,738	33,029	22,126	16,403
6	13,080	14,765	16,614	18,588	20,781	22,915	25,351	28,501	30,787	32,720	21,745	16,413
7	13,123	14,830	16,675	18,653	20,828	23,004	25,500	28,562	30,900	32,413	21,356	16,413
8	13,157	14,895	16,746	18,742	20,876	23,118	25,540	28,637	30,933	32,413	21,007	16,423
9	13,192	14,951	16,807	18,830	20,959	23,144	25,608	28,728	30,966	31,674	20,698	16,453
10	13,235	15,007	16,859	18,897	21,055	23,220	25,676	28,805	31,015	31,310	20,486	16,483
11	13,279	15,072	16,920	18,941	21,139	23,297	25,772	28,866	31,031	30,966	20,182	16,594
12	13,322	15,138	16,992	18,975	21,223	23,374	25,854	28,927	31,162	30,625	19,789	16,614
13	13,349	15,195	17,064	19,019	21,319	23,438	25,922	29,003	31,244	30,256	19,424	16,635
14	13,375	15,271	17,136	19,098	21,404	23,515	25,991	29,065	31,310	29,922	19,075	16,645
15	13,410	15,337	17,199	19,165	21,477	23,619	26,046	29,142	31,359	29,514	18,764	16,655
16	13,427	15,395	17,271	19,243	21,562	23,683	26,449	29,234	31,409	29,111	18,478	16,675
17	13,488	15,461	17,345	19,266	21,647	23,761	26,449	29,281	31,442	28,683	18,163	16,695
18	13,532	15,529	17,418	19,311	21,720	23,917	26,463	29,327	31,491	28,276	17,873	16,756
19	13,576	15,567	17,481	19,379	21,806	24,087	26,576	29,686	31,541	27,918	17,491	16,695
20	13,612	15,635	17,544	19,469	21,867	24,178	26,660	29,765	31,640	27,580	17,064	16,706
21	13,656	15,693	17,586	19,549	21,953	24,231	26,703	29,812	31,674	27,188	16,604	16,726
22	13,682	15,761	17,628	19,629	22,027	24,323	26,774	29,843	31,707	26,845	16,114	16,746
23	13,762	15,819	17,660	19,686	22,114	24,402	26,816	29,922	31,724	26,463	16,084	16,767
24	13,824	15,878	17,702	19,732	22,188	24,481	27,030	29,986	31,840	26,171	16,104	16,807
25	13,886	15,927	17,756	19,777	22,213	24,548	27,145	30,033	32,109	25,813	16,124	16,787
26	13,940	15,996	17,809	19,835	22,275	24,627	27,260	30,081	32,668	25,513	16,134	16,807
27	14,029	16,035	17,873	19,904	22,350	24,733	27,391	30,112	33,254	25,242	16,144	16,818
28	14,119	16,094	17,915	19,985	22,425	24,787	27,478	30,176	33,865	24,893	16,273	16,828
29	14,191	16,173	17,990	20,066	-----	24,827	27,580	30,208	34,219	24,508	16,303	16,838
30	14,335	16,233	18,087	20,147	-----	24,867	27,741	30,272	34,219	24,113	16,293	16,859
31	14,381	-----	18,152	20,240	-----	24,934	-----	30,288	-----	23,722	16,293	-----
MAX	14,381	16,233	18,152	20,240	22,425	24,934	27,741	30,288	34,219	34,113	23,400	16,859
MIN	12,856	14,453	16,293	18,228	20,333	22,500	24,987	27,859	30,320	23,722	16,084	16,333
CHANGE	1,561	1,852	1,919	2,088	2,185	2,509	2,807	2,547	3,931	-10,497	-7,429	566
CAL YEAR 2002			MEAN	24,302	MAX	36,540	MIN	12,100				
WTR YEAR 2003			MEAN	21,845	MAX	34,219	MIN	12,856				

REPUBLICAN RIVER BASIN

MEDICINE CREEK below Harry Strunk Lake, 06842500 - 2003

LOCATION.--Center of Sec. 25-5-26 W., Frontier County, Latitude 40° 22' 20", Longitude 100° 13' 20", On left bank 0.5 mile downstream from Medicine Creek Dam and 6.5 miles northwest of Cambridge.

DRAINAGE AREA.--880 square miles, of which 640 square miles contributes directly to surface runoff. This drainage controlled by Medicine Creek Dam 1/2 mile upstream.

GAGE.--Continuous stage recorder. Datum of gage is 2295.26 feet National Geodetic Vertical Datum of 1929 (U.S.B.R. benchmark).

PERIOD OF RECORD.--1949 - present (Monthly discharge only for some periods, published in WSP 1730).

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records above 10 cubic feet per second are good, records between 4 and 10 cubic feet per second are fair, records below 4 cubic feet per second and estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1,300 cubic feet per second March 23, 1960, gage height 5.97 ft.
No flow September 11, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharge 254 cubic feet per second August 19, gage height 2.44 feet; minimum daily discharge 0.02 cubic feet per second August 27.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.10	.16	.18	.10	.17	.59	.45	.24	93	169	.08
2	1.6	.09	.16	.17	.10	.17	.36	.40	.26	141	157	.10
3	1.9	.10	.18	.18	.12	.35	.42	.51	.36	195	161	.11
4	1.9	.12	.22	.19	.11	.65	.72	.44	.30	184	203	.11
5	.33	.14	.25	.19	.12	.56	.82	.41	.26	175	197	.08
6	.33	.14	.25	.17	.11	.81	1.8	.38	.29	179	197	.06
7	.36	.13	.27	.16	.10	.65	.89	.39	.54	202	198	.05
8	1.4	.13	.30	.15	.10	.84	.66	.40	.39	204	171	.06
9	1.4	.13	.31	.14	.09	1.1	.73	.41	.30	202	164	.12
10	1.7	.13	.32	.15	.08	1.3	.81	.58	.28	180	162	.27
11	1.4	.13	.34	.15	.07	1.0	.67	.62	.19	181	173	.41
12	.43	.16	.31	.13	.07	1.2	.66	.57	.22	183	207	3.3
13	.41	.14	.32	.14	.06	1.2	.68	.53	.22	183	195	.37
14	1.7	.14	.31	.15	.07	1.2	.95	.49	.21	202	185	.31
15	1.4	.13	.29	.14	.09	1.3	.96	.74	.23	203	159	2.6
16	1.1	.13	.29	.13	.09	1.1	2.2	.88	.24	204	150	2.7
17	1.0	.13	.31	.15	.10	1.1	1.6	.68	.21	207	158	2.8
18	.98	.14	.32	.14	.07	1.7	1.4	.66	.18	201	190	2.6
19	.29	.11	.26	.17	.08	1.3	1.5	1.4	.16	194	196	2.8
20	.26	.13	.26	.14	.08	1.2	1.9	.44	.13	193	252	.42
21	1.3	.15	.28	.15	.12	1.0	2.0	.41	.11	190	250	.39
22	1.2	.16	.24	.15	.16	.68	1.9	.36	.10	187	94	.59
23	.29	.17	.24	.15	.19	.66	2.5	.37	.08	177	.36	.79
24	.22	.18	.25	.15	.17	.95	1.6	.37	.07	175	.22	3.4
25	1.5	.19	.22	.15	.16	1.0	1.6	.33	.06	150	.09	3.8
26	.12	.17	.24	.13	.16	.55	1.1	.30	.05	153	.05	3.5
27	.20	.16	.16	.13	.14	.61	.80	.24	.04	170	.02	.48
28	.11	.15	.16	.13	.16	.91	1.2	.35	.04	209	.18	.51
29	.12	.16	.16	.13	-----	1.2	1.3	.21	62	207	.09	.66
30	1.6	.17	.17	.13	-----	1.2	.65	.14	107	215	.05	1.1
31	.10	-----	.17	.12	-----	1.4	-----	.18	-----	210	.06	-----
TOTAL	27.65	4.21	7.72	4.64	3.07	29.06	34.97	14.64	174.76	5,749	3,989.12	34.57
MEAN	.89	.14	.25	.15	.11	.94	1.17	.47	5.83	185	129	1.15
MAX	1.9	.19	.34	.19	.19	1.7	2.5	1.4	107	215	252	3.8
MIN	.10	.09	.16	.12	.06	.17	.36	.14	.04	93	.02	.05
AC-FT	55	8.4	15	9.2	6.1	58	69	29	347	11,400	7,910	69
CAL YEAR 2002	TOTAL	12,498.46	MEAN	34.2	MAX	238	MIN	0	AC-FT	24,790		
WTR YEAR 2003	TOTAL	10,073.41	MEAN	27.6	MAX	252	MIN	.02	AC-FT	19,980		

REPUBLICAN RIVER BASIN

CAMBRIDGE CANAL from Republican River, 00020000 - 2003

LOCATION.--SE1/4NE1/4 Sec. 26-4-25 W. near Cambridge

GAGE.--Continuous stage recorder and 15 ft. Parshall flume

PERIOD OF RECORD.--1951 - present

REMARKS.--Values furnished by United States Bureau of Reclamation

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	88	164	
2									0	98	150	
3									0	159	150	
4									0	168	175	
5									0	165	191	
6									0	164	193	
7									0	179	187	
8									0	186	157	
9									0	182	140	
10									0	167	140	
11									0	158	163	
12									0	158	185	
13									0	157	183	
14									0	174	169	
15									0	188	143	
16									0	187	133	
17									0	186	132	
18									0	185	179	
19									0	184	205	
20									0	183	228	
21									0	187	238	
22									0	183	152	
23									0	172	0	
24									0	168	0	
25									73	152	0	
26									31	144	0	
27									22	142	0	
28									22	179	0	
29					-----				24	199	0	
30					-----				75	200	0	
31		-----			-----		-----		-----	198	0	-----
TOTAL									247	5,240	3,757	
MEAN									8.23	169	121	
MAX									75	200	238	
MIN									0	88	0	
AC-FT									490	10,390	7,450	
CAL YEAR 2002	MAX	215	MIN	0	AC-FT	21,160						
WTR YEAR 2003	MAX	238	MIN	0	AC-FT	18,340						

REPUBLICAN RIVER BASIN

MUDDY CREEK at Arapahoe, 06844000 - 2003

LOCATION.--NW1/4NW1/4 Sec. 22-4-23 W., Furnas County, Latitude 40° 18' 20", Longitude 99° 54' 40", on the left bank, 10 feet upstream from the bridge on U.S. Highways 6 and 34, 0.2 miles west of Arapahoe.

DRAINAGE AREA.--246 square miles.

GAGE.--Continuous stage recorder. Gage datum is 2,143.92 feet above sea level.

PERIOD OF RECORD.--1950 - 1972, 1977 - 1994, January 1, 1998 - present.

REMARKS.--Published by U. S. Geological Survey up to October 1, 1993. Nebraska Department of Water Resources also operated and published from October 1, 1993 to December 31, 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 10,800 cfs May 8, 1986, gage height 28.90 feet (also max. gage height for period); minimum daily discharge zero on Aug. 26, 1953.

EXTREMES FOR CURRENT YEAR.--Peak discharge 624 cubic feet per second May 20, gage height 11.03 feet; minimum daily discharge 2.7 cubic feet per second August 25.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	5.4	5.9	6.1	7.8E	4.2E	4.9	6.9	6.8	5.8	3.1	2.8
2	3.8	5.3	6.0	6.0E	8.0E	4.4E	5.0	6.6	8.4	5.4	3.1	2.8
3	5.4	4.8	5.9	6.0E	8.2	4.6E	5.3	6.6	13	5.3	3.0	2.9
4	4.6	4.8	5.8	5.9E	9.2	4.7	5.5	6.3	13	5.2	3.0	3.0
5	3.9	4.7	5.7	5.9E	8.6	4.5E	5.7	6.1	10	5.3	3.1	3.2
6	3.5	4.7	5.4E	5.8E	7.0E	4.3E	6.1	6.0	7.9	4.7	3.1	3.1
7	3.3	4.8	5.1E	5.8E	5.5E	4.4E	6.4	5.9	7.3	4.6	2.9	3.0
8	3.5	4.9	4.8E	5.7E	5.0E	4.5	6.5	5.8	7.4	5.4	2.9	3.0
9	3.5	4.9	4.8E	5.7E	4.9E	4.3E	6.7	6.0	6.9	4.8	2.9	3.1
10	3.7	4.9	5.0E	5.6E	4.8E	4.2E	6.4	5.9	6.3	4.3	3.6	3.4
11	4.0	4.8	5.1E	5.6E	4.7E	4.4E	6.1	6.1	6.1	4.1	3.5	3.4
12	4.7	4.8	5.0E	5.5E	4.6	4.6	6.7	5.7	7.5	4.2	3.4	5.2
13	4.7	4.9	4.9E	5.3E	4.6	4.6	6.2	5.3	7.0	4.1	3.2	4.4
14	4.6	5.0	4.8E	5.4E	4.4	4.7	5.9	5.0	6.5	3.9	3.1	3.8
15	4.5	5.2	4.7E	5.4E	4.3E	4.7	5.8	5.2	6.5	3.7	3.2	3.4
16	4.3	5.1	4.6E	5.5E	4.3E	4.6	6.6	5.2	5.9	3.6	3.0	3.2
17	4.2	5.2	4.6E	5.4E	4.2E	4.7	6.6	5.2	6.4	3.4	2.9	3.1
18	4.1	5.3	4.5E	5.3E	4.2E	5.7	6.5	5.2	8.5	3.3	3.0	3.2
19	4.2	5.3	4.5E	5.2E	4.1E	6.0	6.3	86	6.1	3.4	3.3	3.1
20	4.4	5.2	4.4E	5.1E	4.1E	5.7	5.9	203	5.6	3.5	3.7	3.0
21	4.7	5.1	4.5E	5.0E	4.0E	5.3	5.9	22	5.5	3.6	3.1	3.0
22	5.1	5.3	4.6E	5.0E	4.0E	5.1	5.9	11	5.4	3.3	3.0	3.2
23	5.8	5.3	4.7E	5.2E	3.9E	5.0	6.8	8.9	5.4	3.2	2.9	3.2
24	6.1	5.5	4.8E	5.4E	3.9E	5.0	7.4	8.5	6.0	3.0	2.9	3.1
25	5.4	5.5	4.9E	5.6E	3.8E	4.9	7.1	8.0	19	3.1	2.7	3.1
26	4.9	5.3	4.9	5.8E	3.8E	4.9	6.7	11	77	3.0	2.8	3.1
27	5.5	5.1E	5.1E	6.0E	3.9E	5.0	6.3	7.9	30	3.0	2.8	2.9
28	5.5	5.2E	5.3E	6.4E	4.1E	4.8	6.1	6.8	10	2.9	3.6	2.9
29	5.2	5.4E	5.5E	6.8E	-----	4.8	6.5	6.5	8.5	3.0	3.8	3.0
30	5.4	5.6	5.7E	7.2E	-----	4.8	6.7	6.1	8.3	3.4	3.7	3.4
31	5.5	-----	5.9	7.6E	-----	4.8	-----	6.0	-----	3.3	3.0	-----
TOTAL	141.1	153.3	157.4	178.2	143.9	148.2	186.5	496.7	328.2	122.8	97.3	97.0
MEAN	4.55	5.11	5.08	5.75	5.14	4.78	6.22	16.0	10.9	3.96	3.14	3.23
MAX	6.1	5.6	6.0	7.6	9.2	6.0	7.4	203	77	5.8	3.8	5.2
MIN	3.1	4.7	4.4	5.0	3.8	4.2	4.9	5.0	5.4	2.9	2.7	2.8
AC-FT	280	304	312	353	285	294	370	985	651	244	193	192
CAL YEAR 2002	TOTAL	1,904.70	MEAN	5.22	MAX	10	MIN	2.4	AC-FT	3,780		
WTR YEAR 2003	TOTAL	2,250.60	MEAN	6.17	MAX	203	MIN	2.7	AC-FT	4,460		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

TURKEY CREEK at Edison, 06844210 - 2003

LOCATION.--NE1/4SW1/4 Sec. 31-4-21 W., Furnas County, Lat. 40° 16' 15", Long. 99° 44' 00", on left bank 10 feet downstream from bridge on U.S. Highway 136, 2 miles east of Edison and 2.7 miles upstream from mouth.

DRAINAGE AREA.--74.9 square miles.

GAGE.--Continuous stage recorder. Gage elevation is 2,090 feet above sea level, from topographic map.

PERIOD OF RECORD.--1977 - present

REMARKS.--Published by U.S. Geological Survey up to Oct. 1, 1993. Records are good, except estimated records are poor and records below 8 cubic feet per second are fair.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1,040 cubic feet per second July 27, 1993, gage height 14.28 feet; minimum daily discharge 0.01 cubic feet per second September 6, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharge 120 cubic feet per second May 20, gage height 6.23 feet; minimum daily discharge 4.5 cubic feet per second September 8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	11	12	15	10 E	6.6E	15	18	17	14	12	5.8
2	7.6	11	12	15	11 E	6.7E	15	17	18	14	11	5.7
3	12	12	11	14	10 E	6.8E	15	17	21	14	12	5.9
4	63	12	10	14	8.7E	7.0E	15	18	19	15	11	4.8
5	19	12	8.5E	14	8.6E	6.3E	15	17	18	16	9.3	5.0
6	8.8	12	8.9E	15	8.5E	6.5E	16	16	17	16	9.6	5.6
7	8.2	11	9.3E	14	8.4E	6.7E	16	16	17	15	11	5.1
8	8.2	12	9.6E	15	8.5E	6.5E	16	16	18	17	10	4.5
9	8.5	12	10 E	15	8.6E	6.3E	16	17	17	17	11	5.5
10	8.6	11	10 E	14	8.7E	6.4E	16	17	17	14	9.2	5.7
11	8.7	11	11 E	12 E	8.8E	7.7E	16	17	17	14	16	6.7
12	8.5	11	11 E	10 E	8.9E	9.1E	16	16	18	15	9.0	5.9
13	8.6	11	12 E	9.0E	9.0E	10 E	15	16	23	14	8.1	5.8
14	8.7	11	12	10 E	8.5E	11 E	15	16	17	14	8.5	5.9
15	9.3	11	12	9.0E	8.0E	12 E	16	15	17	12	9.1	6.0
16	9.4	11	12	8.2E	7.7E	14	17	16	16	13	8.9	6.3
17	9.5	11	12	7.5E	7.8E	15	19	16	17	13	9.6	6.4
18	9.6	11	12	7.8E	7.9E	17	16	16	21	13	8.6	6.0
19	9.6	11	12	8.2E	8.0E	16	16	58	17	13	9.2	5.9
20	9.2	11	12 E	8.5E	8.2E	15	16	57	16	11	11	6.0
21	9.1	11	11 E	7.8E	8.3E	15	16	20	16	12	9.1	6.5
22	10	11	11 E	7.1E	8.3E	14	16	18	16	12	8.2	6.9
23	11	12	10 E	6.4E	7.4E	15	19	17	15	18	7.9	7.2
24	11	12	10 E	5.7E	6.6E	15	23	26	15	12	7.5	6.8
25	11	11	11 E	6.1E	5.7E	14	19	54	38	12	6.5	6.8
26	11	11E	11 E	6.5E	6.0E	14	18	20	42	11	6.7	6.4
27	12	10E	12 E	6.0E	6.2E	14	17	18	17	11	8.1	6.8
28	13	11E	13 E	6.3E	6.5E	14	17	18	16	11	7.6	7.0
29	12	12	13 E	6.7E	-----	14	18	17	16	10	6.8	7.1
30	11	12	14 E	7.0E	-----	14	20	17	15	12	7.1	7.3
31	12	-----	15	8.0E	-----	15	-----	17	-----	13	7.2	-----
TOTAL	365.5	339	350.3	308.8	228.8	350.6	500	654	564	418	286.8	183.3
MEAN	11.8	11.3	11.3	9.96	8.17	11.3	16.7	21.1	18.8	13.5	9.25	6.11
MAX	63	12	15	15	11	17	23	58	42	18	16	7.3
MIN	7.4	10	8.5	5.7	5.7	6.3	15	15	15	10	6.5	4.5
AC-FT	725	672	695	613	454	695	992	1,300	1,120	829	569	364
CAL YEAR 2002	TOTAL	4,860.90	MEAN	13.3	MAX	63	MIN	4.2	AC-FT	9,640		
WTR YEAR 2003	TOTAL	4,549.10	MEAN	12.5	MAX	63	MIN	4.5	AC-FT	9,020		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

BEAVER CREEK near Beaver City, 06847000 - 2003

LOCATION.--SW1/4SW1/4 Sec. 23-2-23 W., Furnas County, Lat. 40° 07' 12", Long. 99° 53' 35", on left bank 400 feet downstream from bridge on U.S. Highway 283, 0.75 mile south of State Highway 89, and 3.5 miles west of Beaver City, and 25.5 miles above the mouth.

DRAINAGE AREA.--2,081 square miles, approximately 1,650 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,164.84 feet above sea level.

PERIOD OF RECORD.--1936 - present (Some records are monthly discharge only, published in WSP 1310).

REMARKS.--Published by U. S. Geological Survey up to October 1, 1994. Records are fair, except estimated records and records below 10 cubic feet per second are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 9,510 cubic feet per second June 14, 1983, gage height 15.68 ft.
No flow during many years.

EXTREMES FOR CURRENT YEAR.--Peak discharge 5.1 cubic feet per second October 3, gage height 2.78 feet; minimum daily discharge zero August 17 - 19.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.15	.25	.33	.20	.19E	.32	.94	.18E	.29	.10	.04
2	.05	.12	.25	.32	.21	.18E	.28	.68	.60E	.22	.09	.03
3	.90	.12	.24	.32	.22	.17E	.34	.67	.82E	.16	.07	.02
4	.39	.13	.26E	.33	.21	.17	.43	.68	1.0 E	.15	.06	.02
5	.07	.12	.26E	.30	.22	.27	.36	.71	.37	.19	.08	.02
6	.06	.12	.17	.29	.19	.27E	.37	.72	.29	.22	.09	.03
7	.08	.13	.27	.27	.27	.26E	.44	.73	.30	.30	.09	.02
8	.07	.17	.26	.30	.34	.25E	.49	.69	.27	.50	.09	.01
9	.07	.20	.26	.27	.32	.25	.57	.66	.24	.46	.14	.02
10	.08	.22	.23	.24	.29	.32	.54	.78	.27	.34	.13	.01
11	.08	.23	.27	.26	.25	.39	.54	.69	.30	.25	.08	.03
12	.07	.23	.22	.27	.23	.47	.54	.65	.53	.19	.09	.02
13	.07	.24	.19	.27	.24	.71	.53	.65	.45	.18	.06	.01
14	.07	.28	.23	.28	.30	.85	.47	.60	.45	.17	.05	.01
15	.09	.29	.22	.25	.24	.86	.51	.52	.37	.16	.02	.01
16	.10	.29	.22	.25	.27	.88	1.0	.49	.34	.13	.01	.01
17	.11	.32	.25	.37	.23	.99	.81	.46	.34	.12	0	.01
18	.10	.34	.20	.48	.19	1.8	.74	.42	.34	.12	0	.01
19	.10	.33	.17	.43	.23	1.9	.61	1.0	.41	.15	0	.01
20	.10	.32	.17	.34	.25	1.4	.47	.84	.39	.18	.01	.01
21	.09	.32	.17	.23	.25	.87	.47	.61	.29	.20	.04	.01
22	.16	.32	.17	.22	.27	.71	.48	.48	.28	.16	.06	.01
23	.09	.32	.19	.25E	.23	.67	.80	.42	.52	.15	.09	.01
24	.07	.33	.23	.28E	.23	.55	.88	.40	.53	.14	.06	.01
25	.07	.34	.22	.31E	.23E	.59	.95	.34	.86	.14	.04	.01
26	.07	.34	.23	.34	.22E	.56	.72	.29	.51	.13	.04	.01
27	.13	.28	.27	.43	.21E	.61	.65	.26	.39	.10	.04	.01
28	.12	.26	.33	.41	.20E	.57	.57	.22	.37	.11	.06	.01
29	.11	.24	.31	.29	-----	.48	1.4	.20	.49	.12	.08	.01
30	.16	.25	.30	.24	-----	.49	1.8	.20	.37	.14	.06	.01
31	.16	-----	.31	.23	-----	.44	-----	.19E	-----	.10	.04	-----
TOTAL	3.92	7.35	7.32	9.40	6.74	19.12	19.08	17.19	12.87	5.97	1.87	0.45
MEAN	.13	.25	.24	.30	.24	.62	.64	.55	.43	.19	.060	.015
MAX	.90	.34	.33	.48	.34	1.9	1.8	1.0	1.0	.50	.14	.04
MIN	.03	.12	.17	.22	.19	.17	.28	.19	.18	.10	0	.01
AC-FT	7.8	15	15	19	13	38	38	34	26	12	3.7	.9
CAL YEAR 2002 TOTAL		166.64	MEAN	.46	MAX	18	MIN	0	AC-FT	331		
WTR YEAR 2003 TOTAL		111.28	MEAN	.30	MAX	1.9	MIN	0	AC-FT	221		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

HARLAN COUNTY RESERVOIR near Republican City, 06849000 - 2003

LOCATION.--Sec. 11-1-17 W., Harlan County, Lat. 40° 04' 10", Long. 99° 12' 30", at left end of spillway on upstream side of Harlan County Dam on Republican River, 2 miles southeast of Republican City and 8 miles southeast of Alma.

DRAINAGE AREA.--20,750 square miles, approximately 13,530 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is mean sea level.

PERIOD OF RECORD.--November 1952 - present

REMARKS.--Values from the U.S. Bureau of Reclamation Great Plains Region web page.
Published by U.S. Geological Survey up to Oct. 1, 1994.

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161,198	162,590	161,477	160,456	160,177	161,477	164,261	170,828	175,437	178,517	140,697	121,198
2	162,033	162,590	161,198	160,549	160,270	161,569	164,354	170,060	176,684	178,126	139,621	120,971
3	161,941	162,682	161,291	160,456	160,456	161,569	164,261	170,060	176,397	177,741	138,379	120,744
4	162,312	162,590	161,198	160,456	160,270	161,477	164,540	170,060	177,166	177,069	137,054	120,744
5	162,312	162,682	161,106	160,456	160,363	161,662	164,632	170,060	177,454	176,109	136,060	120,592
6	162,404	162,590	161,106	160,456	160,456	161,477	165,003	170,732	177,646	175,246	134,818	120,366
7	161,941	162,590	161,106	160,456	160,456	161,755	165,096	170,924	177,741	173,902	133,576	120,366
8	161,848	162,404	161,013	160,363	160,456	161,477	165,189	170,445	178,030	174,285	132,229	119,837
9	161,848	162,590	161,198	160,363	160,456	161,662	165,003	171,116	177,741	172,364	131,200	119,912
10	161,662	162,497	161,013	160,270	160,456	161,848	165,096	171,404	177,934	171,116	130,329	119,460
11	161,662	162,404	161,013	160,363	160,549	162,033	165,189	171,692	177,934	169,675	129,062	120,516
12	161,755	162,219	161,106	160,177	160,549	162,126	165,096	171,212	178,517	168,066	127,953	120,290
13	161,569	162,219	161,013	160,270	160,642	162,126	165,096	171,596	178,617	167,137	126,607	120,366
14	161,477	162,312	161,013	160,084	160,735	162,312	165,375	171,596	178,716	166,024	125,580	120,139
15	160,920	162,312	161,106	160,177	160,828	162,312	165,375	171,500	178,816	164,632	124,900	119,837
16	161,198	162,404	160,920	160,177	160,920	162,404	165,931	171,692	178,816	162,682	124,446	119,610
17	161,106	162,404	161,198	160,177	161,013	162,775	165,653	172,075	178,816	161,384	123,918	119,006
18	160,735	162,126	161,106	160,084	161,198	163,426	165,838	172,075	178,617	159,900	123,239	119,309
19	160,735	162,219	161,013	160,084	161,198	163,796	166,024	172,940	178,418	158,450	122,936	119,082
20	160,735	162,126	160,735	159,992	161,198	163,796	165,931	172,460	178,126	157,197	123,087	118,931
21	160,363	162,126	160,920	159,900	161,291	163,610	165,838	172,652	178,318	155,943	123,012	119,006
22	161,848	161,941	160,735	159,992	161,384	163,889	165,931	173,036	178,126	154,689	122,709	118,855
23	162,033	161,848	160,642	159,900	161,477	164,075	166,117	173,228	177,069	153,345	122,557	118,704
24	162,033	161,662	160,642	159,900	161,384	163,982	167,415	173,998	177,454	151,824	122,557	118,553
25	161,941	162,590	160,642	159,900	161,384	164,168	167,601	174,861	178,318	150,307	122,332	118,402
26	161,941	161,662	160,549	159,900	161,384	164,075	167,601	175,054	178,030	148,927	122,180	118,326
27	161,384	161,755	160,642	159,900	161,384	164,261	167,694	175,341	177,934	147,721	122,029	118,250
28	162,126	161,477	160,642	159,900	161,384	164,447	167,694	175,437	177,837	146,169	122,029	118,027
29	162,590	161,755	160,642	159,807	-----	164,354	168,811	175,533	178,418	144,874	121,878	117,811
30	162,497	161,569	160,642	159,900	-----	164,354	169,771	175,629	178,617	143,496	121,349	117,739
31	162,497	-----	160,456	160,084	-----	164,168	-----	175,725	-----	142,202	121,273	-----
MAX	162,590	162,682	161,477	160,549	161,477	164,447	169,771	175,725	178,816	178,517	140,697	121,198
MIN	160,363	161,477	160,456	159,807	160,177	161,477	164,261	170,060	175,437	142,202	121,273	117,739
CHANGE	1,197	-928	-1,113	-372	1,300	2,784	5,603	5,954	2,892	-36,415	-20,929	-3,534
CAL YEAR 2002			MEAN	217,873		MAX	277,600		MIN	160,363		
WTR YEAR 2003			MEAN	157,835		MAX	178,816		MIN	117,739		

REPUBLICAN RIVER BASIN

NAPONEE CANAL from Republican River, 00105000 - 2003

LOCATION.--NE1/4NE1/4 Sec. 14-1-17 W. below Harlan County Dam

GAGE.--Sparling Meter

PERIOD OF RECORD.--1955 - present

REMARKS.--Values furnished by United States Bureau of Reclamation

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										0	25	
2										0	26	
3										0	26	
4										14	26	
5										23	28	
6										26	29	
7										26	29	
8										27	28	
9										29	26	
10										29	25	
11										32	25	
12										34	25	
13										34	18	
14										34	4.4	
15										33	0	
16										33	0	
17										32	0	
18										28	0	
19										24	0	
20										22	0	
21										25	0	
22										27	0	
23										24	0	
24										24	0	
25										24	0	
26										24	0	
27										24	0	
28										27	0	
29					-----					25	0	
30					-----					23	0	
31		-----			-----		-----		-----	23	0	-----
TOTAL										750	340.4	
MEAN										24.2	11.0	
MAX										34	29	
MIN										0	0	
AC-FT										1,490	675	
CAL YEAR 2002	MAX	34	MIN	0	AC-FT	2,450						
WTR YEAR 2003	MAX	34	MIN	0	AC-FT	2,160						

REPUBLICAN RIVER BASIN

FRANKLIN CANAL from Republican River, 00053000 - 2003

LOCATION.--NW1/4NE1/4 Sec. 11-1-17 W. below Harlan County Dam

GAGE.--Continuous stage recorder and orifice

PERIOD OF RECORD.--1954 - present

REMARKS.--Values furnished by United States Bureau of Reclamation

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										0	182	
2										0	190	
3										0	199	
4										0	199	
5										0	199	
6										0	199	
7										70	199	
8										106	199	
9										135	198	
10										166	205	
11										179	199	
12										194	194	
13										200	189	
14										215	126	
15										227	26	
16										229	0	
17										232	0	
18										230	0	
19										230	0	
20										229	0	
21										227	0	
22										226	0	
23										228	0	
24										227	0	
25										221	0	
26										215	0	
27										213	0	
28										210	0	
29					-----					203	0	
30					-----					199	0	
31		-----			-----		-----		-----	181	0	-----
TOTAL										4,992	2,703	
MEAN										161	87.2	
MAX										232	205	
MIN										0	0	
AC-FT										9,900	5,360	
CAL YEAR 2002	MAX	258	MIN	0	AC-FT	24,630						
WTR YEAR 2003	MAX	232	MIN	0	AC-FT	15,260						

REPUBLICAN RIVER BASIN

TURKEY CREEK at Naponee, 06850000 - 2003

LOCATION.--SW1/4SW1/4 Sec. 4-1-16 W., Franklin County, Lat. 40° 04' 35", Long. 99° 08' 18", on the right, downstream abutment on the road bridge at the Naponee city park, Naponee, Nebraska.

DRAINAGE AREA.--129 square miles.

GAGE.--Continuous stage recorder. Gage datum 1,870.00 feet (Corps of Engineers bench mark).

PERIOD OF RECORD.--Published by USGS at as a continuous record site 1948 - 1953, published as a miscellaneous or partial record site 1954 - 1989, crest-stage partial record station 1991 - 2002, continuous record site by Nebraska Department of Natural Resources 2003.

REMARKS.--Records are good, except estimated records are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharge cubic feet per second , gage height feet; minimum daily discharge cubic feet per second .

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	7.5	8.9	8.4E	10	8.8E	8.5	11	8.6	7.2	7.2	12
2	6.5	7.5	8.7	8.6E	10 E	9.0E	8.3	11	10	6.5	6.3	8.5
3	6.2	7.4	8.3	8.6E	9.8E	9.2E	8.2	11	9.5	6.0	5.9	5.4
4	6.4	7.5	8.4	8.6E	9.2E	9.4E	8.5	11	9.4	5.4	5.7	4.0
5	5.9	7.9	8.4	8.8	8.4E	10 E	8.7	10	9.3	5.3	5.1	3.9
6	5.9	7.9	8.7	8.5	8.2E	10	9.9	10	9.0	5.7	5.6	3.9
7	5.8	8.0	8.5	8.9	8.4E	10	9.5	10	9.3	5.9	5.5	3.8
8	5.8	8.2	8.7	9.1	8.6E	9.9	9.5	11	9.1	6.3	5.9	4.0
9	5.8	8.0	8.8	9.4E	9.2E	9.8E	9.7	11	8.6	6.9	5.5	4.2
10	5.8	7.9	8.8	8.6E	9.5	9.7	10	10	8.4	5.9	16	4.3
11	5.8	7.8	8.8	8.2E	9.4	9.7	10	10	8.4	6.1	7.4	5.0
12	6.0	7.8	8.8	8.6E	9.7	9.6	11	9.7	9.8	5.8	4.1	4.6
13	6.0	7.9	8.8	8.6	9.9	9.4	11	9.7	9.8	6.1	4.3	4.4
14	6.2	8.1	8.8	8.6	10	9.4	12	9.6	9.5	5.9	5.7	4.4
15	6.1	7.8	8.6E	8.6	10	9.3	12	9.5	8.8	6.9	6.4	4.6
16	6.3	7.8	8.6E	8.4E	9.6E	9.2	14	9.6	8.2	7.5	7.0	4.6
17	6.6	7.8	8.6E	8.4E	9.4	9.2	14	9.2	8.0	6.7	7.4	4.4
18	6.6	8.0	8.6E	8.6E	9.4	9.3	15	9.1	30	7.3	5.6	4.4
19	6.5	8.2	8.6E	8.8	9.4	9.0	15	9.6	9.2	9.3	5.7	4.6
20	6.6	8.4	8.6E	8.8	9.5	9.0	15	9.0	8.9	8.4	6.4	4.6
21	6.8	8.6	8.6E	8.8	9.6	8.9	15	8.9	8.7	8.6	6.8	4.7
22	8.2	8.6	8.4E	8.2E	9.6E	8.8	15	8.9	8.1	9.1	5.4	5.0
23	9.3	8.6	8.2E	7.8E	9.2E	8.8	18	8.7	8.2	8.2	6.1	4.9
24	7.3	8.6	8.2E	8.0E	8.4E	8.8	18	20	6.6	7.9	9.7	4.7
25	7.3	8.8	8.2E	8.2E	8.0E	8.8	18	20	6.9	7.5	6.7	4.7
26	7.2	8.8	8.4E	8.6E	8.2E	8.6	17	9.5	6.8	6.5	5.4	4.6
27	7.4	8.9	8.4E	8.6E	8.4E	8.6	17	9.4	7.2	6.4	5.6	4.5
28	7.1	9.0	8.4E	8.8E	8.6E	8.6	17	9.2	7.2	5.5	6.5	4.5
29	7.1	9.0	8.4E	9.0E	-----	8.5	29	9.0	36	5.9	7.2	4.5
30	7.6	8.8	8.6E	9.7	-----	8.6	13	8.7	11	7.9	9.4	4.8
31	7.3	-----	8.4E	10	-----	8.6	-----	8.3	-----	7.6	13	-----
TOTAL	204.4	245.1	265.2	268.8	257.6	284.5	396.8	321.6	308.5	212.2	210.5	146.5
MEAN	6.59	8.17	8.55	8.67	9.20	9.18	13.2	10.4	10.3	6.85	6.79	4.88
MAX	9.3	9.0	8.9	10	10	10	29	20	36	9.3	16	12
MIN	5.0	7.4	8.2	7.8	8.0	8.5	8.2	8.3	6.6	5.3	4.1	3.8
AC-FT	405	486	526	533	511	564	787	638	612	421	418	291

WTR YEAR 2003 TOTAL 3,121.70 MEAN 8.55 MAX 36 MIN 3.8 AC-FT 6,190

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

CENTER CREEK at Franklin, 06851000 - 2003

LOCATION.--SE1/4SW1/4 Sec. 36-2-15 W. at Franklin, Franklin County, Latitude 40°05'33", Longitude 98°57'53", on the left bank at the downstream side of the Franklin County bridge at the southwest edge of Franklin, Nebraska.

GAGE.--Continuous stage recorder. Gage Datum is 1828.50 feet above sea level.

PERIOD OF RECORD.--1948 - 1956, Annual peaks and occasional low flow measurements 1961 - 1968, 1968 - 1975, 1977 - 1994, 2003 - present.

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1993. Station location is about 1.7 miles downstream of the old station location.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 3,150 cubic feet per second September 20, 1950 at gage height 6.80 ft. Minimum daily discharge zero August 29, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharge 418 cubic feet per second June 23, at gage height 4.13 feet; minimum daily discharge 1.2 cubic feet per second July 9.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	6.0	6.7	6.8	5.2	6.6E	6.4	5.1	6.5	4.9	4.4	4.6
2	9.3	5.8	6.5	6.4	4.4E	6.8E	5.9	5.6	8.0	4.4	4.4	4.0
3	5.7	5.6	7.2	6.6	4.4E	7.0E	6.1	6.7	6.6	4.4	4.8	3.6
4	5.6	5.8	7.5	6.0	4.5E	7.4E	6.7	7.2	6.7	3.1	4.1	4.0
5	5.0	5.2	7.7	5.9	4.6E	7.0E	6.1	6.7	6.1	2.2	4.7	3.8
6	5.3	5.4	7.8	5.8	5.0E	7.6E	8.0	7.3	5.4	3.5	4.5	3.6
7	5.8	5.2	7.2	5.6	5.4E	7.8E	5.9	6.1	6.4	3.8	4.4	3.7
8	5.7	4.9	6.7	5.1	5.8E	7.6E	5.4	5.9	6.5	18	3.3	3.9
9	5.9	4.7	6.9	5.0E	6.0E	7.0E	5.8	6.5	5.1	1.2	3.4	4.2
10	6.2	4.7	6.9	5.2E	6.0E	7.0E	5.6	6.2	4.7	1.3	6.0	4.0
11	6.0	5.5	6.4	5.2E	6.0E	7.0E	5.4	5.7	4.9	1.6	4.5	11
12	6.6	5.5	6.5	5.2E	6.0E	7.2E	5.1	5.7	5.7	2.4	3.6	2.9
13	6.9	5.7	6.6	5.0E	6.2E	8.8	4.5	6.0	4.1	3.3	4.5	3.7
14	6.1	5.6	6.4	4.8E	6.2E	8.7	4.1	5.6	5.1	3.8	3.7	4.0
15	6.2	5.8	6.1	4.8E	6.2E	8.5	4.3	5.5	5.2	3.7	3.1	4.0
16	5.5	5.8	5.5	4.8E	6.2E	8.1	4.4	6.2	5.1	3.9	2.4	3.8
17	4.9	6.1	5.9	5.4E	6.2E	8.3	4.3	5.9	4.8	3.3	2.7	5.0
18	4.1	5.4	6.1	5.6E	6.3	9.5	4.8	6.4	4.4	3.9	2.6	5.3
19	4.3	5.6	6.3	5.6E	6.2	8.8	4.9	14	5.2	4.8	4.0	4.5
20	4.4	5.7	6.4	5.6E	5.8	9.0	5.2	7.5	5.4	4.5	3.4	4.5
21	4.6	6.1	6.2E	5.6E	5.4E	9.0	5.3	7.4	4.7	4.5	3.3	4.6
22	17	6.6	6.2E	5.4E	5.4E	8.1	5.2	6.9	4.5	5.1	3.9	5.0
23	9.9	6.3	6.0E	4.8E	5.2E	8.2	8.7	7.0	40	5.6	3.9	5.1
24	5.5	7.1	5.8E	4.6E	4.9E	7.8	5.6	11	3.1	5.1	3.9	4.7
25	5.3	8.3	5.8E	4.7E	5.0E	7.7	5.5	20	3.5	4.8	3.3	4.9
26	5.1	8.6	5.8E	4.8E	5.4E	7.8	5.5	6.8	3.9	5.2	3.4	4.7
27	7.3	8.1	6.0E	5.0E	6.0E	7.2	5.5	7.2	4.4	5.0	3.3	4.6
28	8.0	7.2	6.0E	5.0E	6.4E	7.9	5.3	6.4	4.3	5.6	3.8	4.8
29	7.8	6.1	6.4	5.5	-----	7.6	34	5.9	6.6	4.5	4.6	5.1
30	9.2	6.2	6.6	5.7	-----	7.3	8.0	5.9	7.8	3.9	4.7	5.6
31	6.4	-----	7.2	5.5	-----	6.9	-----	5.9	-----	4.3	5.2	-----
TOTAL	200.2	180.6	201.3	167.0	156.3	241.2	197.5	222.2	194.7	135.6	121.8	137.2
MEAN	6.46	6.02	6.49	5.39	5.58	7.78	6.58	7.17	6.49	4.37	3.93	4.57
MAX	17	8.6	7.8	6.8	6.4	9.5	34	20	40	18	6.0	11
MIN	4.1	4.7	5.5	4.6	4.4	6.6	4.1	5.1	3.1	1.2	2.4	2.9
AC-FT	397	358	399	331	310	478	392	441	386	269	242	272
WTR YEAR 2003	TOTAL	2,155.60	MEAN	5.91	MAX	40	MIN	1.2	AC-FT	4,280		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

FRANKLIN PUMP CANAL from Republican River, 00054000 - 2003

LOCATION.--NW1/4NE1/4 Sec. 10-1-14 W. near Franklin

GAGE.--Continuous stage recorder and 4 ft. Parshall flume

PERIOD OF RECORD.--1954 - present

REMARKS.--Values furnished by United States Bureau of Reclamation

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										0	23	
2										0	8.6	
3										0	0	
4										0	13	
5										0	22	
6										0	24	
7										0	24	
8										7.8	24	
9										16	19	
10										22	16	
11										28	23	
12										16	25	
13										18	23	
14										31	8.2	
15										30	0	
16										39	0	
17										37	0	
18										26	0	
19										26	0	
20										25	0	
21										28	0	
22										28	0	
23										27	0	
24										26	0	
25										26	0	
26										25	0	
27										20	0	
28										22	0	
29					-----					25	0	
30					-----					24	0	
31		-----			-----		-----		-----	23	0	-----
TOTAL										595.8	252.8	
MEAN										19.2	8.15	
MAX										39	25	
MIN										0	0	
AC-FT										1,180	501	
CAL YEAR 2002	MAX	40	MIN	0	AC-FT	3,280						
WTR YEAR 2003	MAX	39	MIN	0	AC-FT	1,680						

REPUBLICAN RIVER BASIN

REPUBLICAN RIVER at Riverton, 06851090 - 2003

LOCATION.--NE1/4NE1/4 Sec. 3-1-13 W., Franklin County, Latitude 40° 05' 20", Longitude 98° 45' 54", on the left, upstream side of the Franklin County Road near the west edge of Riverton, NE.

GAGE.--Continuous stage recorder.

DRAINAGE AREA.--21,300 square miles

PERIOD OF RECORD.--USGS miscellaneous site 1963 - 1967, crest-stage gage 1970 - 1978, Department of Natural Resources continuous record 2003.

REMARKS.--Records are good, except estimated records are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,690 cubic feet per second June 23, gage height 5.76 feet; minimum daily discharge 6.7 cubic feet per second September 8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	44	39	36E	38E	35E	41	89	44	120	326	17
2	44	44	39	37E	37E	35E	40	65	60	139	321	15
3	38	43	38	38E	35E	34E	41	58	58	196	317	12
4	37	41	38	39E	34E	34E	43	58	59	299	313	11
5	32	41	38E	38	32E	34E	44	55	58	310	310	9.5
6	31	39	38	38	32E	34E	49	56	50	317	304	8.1
7	29	39	38	38	30E	36E	53	55	50	350	299	7.3
8	28	38	38	38	28E	37E	50	57	50	382	309	6.7
9	28	38	38	37E	31E	38	46	56	46	362	285	9.0
10	28	37	38	36E	32E	38	44	54	43	324	311	11
11	27	38	38	35E	35E	38	42	54	42	327	317	43
12	27	38	37	35E	37E	38	42	51	53	309	283	48
13	27	38	37	36E	39E	38	41	48	50	341	265	23
14	28	40	37	35E	39E	37	41	45E	50	353	255	19
15	28	39	36	34E	37E	37	42	43	46	364	209	17
16	29	38	35	34E	37E	37	46	46	42	363	176	13
17	30	38	36	32E	38E	37	46	44	40	350	167	9.5
18	29	38	36	33E	39E	45	46	43	73	349	160	9.5
19	28	38	35	35E	40	45	45	61	155	358	163	9.9
20	28	38	34E	36E	39	43	43	64	158	362	116	10
21	28	38	33E	32E	39	42	42	52	140	366	64	10
22	34	38	29E	28E	38	40	41	48	142	373	50	11
23	67	38	31E	25E	36E	40	50	49	1,100	355	41	11
24	51	38	32E	26E	34E	40	64	61	352	347	33	10
25	42	38	35E	26E	31E	40	56	78	145	333	30	9.9
26	39	40	35E	27E	29E	41	52	68	102	324	25	9.5
27	40	39	36E	28E	31E	41	49	53	81	357	21	9.6
28	42	39	36E	30E	33E	42	47	47	75	388	21	9.5
29	41	39	36E	32E	-----	42	56	44	110	366	19	11
30	55	38	37E	34E	-----	42	147	42	126	349	17	14
31	47	-----	36E	37E	-----	42	-----	42	-----	336	18	-----
TOTAL	1,082	1,172	1,119	1,045	980	1,202	1,489	1,686	3,600	10,169	5,545	414.0
MEAN	34.9	39.1	36.1	33.7	35.0	38.8	49.6	54.4	120	328	179	13.8
MAX	67	44	39	39	40	45	147	89	1,100	388	326	48
MIN	20	37	29	25	28	34	40	42	40	120	17	6.7
AC-FT	2,150	2,320	2,220	2,070	1,940	2,380	2,950	3,340	7,140	20,170	11,000	821
WTR YEAR 2003 TOTAL		29,503.00	MEAN	80.8	MAX	1,100	MIN	6.7	AC-FT	58,520		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

THOMPSON CREEK at Riverton, 06851500 - 2003

LOCATION.--NW1/4NW1/4 Sec. 2-1-13 W., Franklin County, Lat. 40°05'21", Long. 98°45'38", on left bank 15 feet downstream from bridge on U. S. Highway 136, at west edge of Riverton, 240 feet upstream from Burlington Northern Railroad bridge, and 0.5 miles upstream from the mouth.

DRAINAGE AREA.--290 square miles; approximately 197 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 1,753.38 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1948 - 1956, Annual peaks 1962 - 1968, occasional low flow measurements 1961 -1968, 1968 - 1975, 1977 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are good except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 12,200 cubic feet per second July 9, 1950 at gage height 13.22 feet; minimum daily discharge 6.5 cubic feet per second June 11, 1996.

EXTREMES FOR CURRENT YEAR.--Peak discharge 420 cubic feet per second June 23, gage height 6.58 feet; minimum daily discharge 9.0 cubic feet per second September 21.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	18	19	19E	22	13E	17	24	17	16	14	14
2	30	18	20	19E	22E	14E	17	23	21	16	15	13
3	21	18	19	18E	22E	15E	18	21	19	18	15	12
4	22	20	19	19E	19E	16E	18	22	20	15	13	10
5	18	21	18	22	18E	17E	16	20	20	14	14	10
6	19	20	18	22	18E	18	17	20	20	13	15	11
7	17	20	19	23	18E	19	16	18	19	15	17	9.9
8	16	21	19	24	19E	19	15	20	18	17	15	11
9	17	22	19	21E	19E	16E	14	19	18	15	16	13
10	17	21	19	19E	19E	17	16	19	18	15	16	13
11	17	19	20	18E	20	17	17	19	18	15	15	57
12	17	19	19	20E	19	17	17	18	26	15	14	29
13	16	20	19	21	19	18	17	18	21	15	14	16
14	17	22	19	21	20	19	17	17	20	15	13	13
15	17	20	20	20E	18E	20	17	16	19	15	13	12
16	17	20	21	18E	16E	20	19	17	18	14	11	12
17	17	20	21	17E	17E	20	18	17	18	13	11	11
18	17	20	20	18E	19	22	19	17	19	12	11	10
19	18	20	19	19E	20	22	18	22	20	14	13	11
20	18	20	19	21E	21	21	17	17	21	14	10	9.7
21	16	20	19	18E	20	19	17	16	22	13	9.4	9.0
22	17	19	19	17E	18E	18	17	17	21	13	9.2	10
23	28	20	19E	17E	16E	19	17	18	110	13	12	9.4
24	20	20	19E	18E	14E	19	25	66	17	14	12	9.5
25	20	19	19E	18E	13E	18	20	23	19	12	11	9.6
26	18	19	19E	19E	13E	19	19	15	18	15	12	9.5
27	19	19	19E	21E	12E	20	19	14	17	18	13	9.5
28	18	20	19E	20	12E	18	19	14	16	17	13	10
29	20	21	19E	20	-----	17	27	15	18	17	13	11
30	28	21	19E	20	-----	16	46	16	17	17	12	13
31	18	-----	19E	23	-----	17	-----	16	-----	17	14	-----
TOTAL	585	597	595	610	503	560	566	614	665	462	405.6	398.1
MEAN	18.9	19.9	19.2	19.7	18.0	18.1	18.9	19.8	22.2	14.9	13.1	13.3
MAX	30	22	21	24	22	22	46	66	110	18	17	57
MIN	15	18	18	17	12	13	14	14	16	12	9.2	9.0
AC-FT	1,160	1,180	1,180	1,210	998	1,110	1,120	1,220	1,320	916	805	790
CAL YEAR 2002 TOTAL		7,577.00	MEAN	20.8	MAX	335	MIN	10	AC-FT	15,030		
WTR YEAR 2003 TOTAL		6,560.70	MEAN	18.0	MAX	110	MIN	9.0	AC-FT	13,010		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

ELM CREEK at Amboy, 06852000 - 2003

LOCATION.--NE1/4NW1/4 Sec. 3-1-10 W., Webster County, Lat. 40°05'20", Long. 98°26'07", on left bank at downstream side of bridge on U. S. Highway 136, at east edge of Amboy, 400 feet east of Burlington Northern railroad track, 2.5 miles upstream from the mouth, 4.5 miles east of Red Cloud, and 5.5 miles west of Guide Rock.

DRAINAGE AREA.--39.2 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,659.07 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1948 - 1953, Annual peaks 1959, 1961 - 1977, occasional low flow measurements 1954 - 1977, 1977 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1993. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 9,540 cubic feet per second July 4, 2000 at gage height 17.10 feet; minimum daily discharge 6.2 cubic feet per second August 28, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharge 376 cubic feet per second May 24, gage height 12.30 feet; minimum daily discharge 4.3 cubic feet per second August 14.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	20	11	12	13	15E	13	27	31	12	9.2	8.1
2	15	15	11	12	14	15E	12	17	35	12	9.4	8.3
3	15	14	11	12E	14	14E	13	15	34	11	9.5	8.3
4	25	13	10	12	14	14E	13	14	62	11	9.6	8.2
5	22	13	10	12	13	14E	13	14	102	10	8.3	8.2
6	15	13	11	12	13	14E	14	15	35	9.9	7.5	8.4
7	12	13	11	12	12E	14E	14	15	30	9.9	7.3	8.4
8	12	13	11	13	12E	14E	13	56	29	11	6.7	8.2
9	11	13	11E	12	12E	14E	13	32	27	10	6.4	9.4
10	11	12	11E	12	12E	15E	12	27	26	10	6.5	9.0
11	11	12	11E	12E	13E	15E	12	18	25	10	6.2	23
12	11	12	11E	13E	13	15E	12	14	51	9.4	5.6	11
13	11	13	11E	12E	13	15E	12	14	28	9.6	4.6	9.8
14	11	13	11E	12E	11	15E	12	13	20	9.9	4.3	9.6
15	11	13	11E	12E	12	15E	12	13	18	10	5.2	9.4
16	11	12	11	12E	12	15E	14	13	16	10	5.0	9.4
17	11	12	11	12E	14	15E	13	13	15	9.8	5.3	9.2
18	11	12	11	12E	13	15	13	13	15	9.6	5.8	9.2
19	11	12	11	12E	12	14	13	16	14	10	8.5	9.3
20	11	12	11	13E	12	14	13	20	14	9.9	7.0	9.3
21	11	12	11	13E	12	13	13	24	14	9.7	6.7	9.2
22	12	12	11	13E	12	13	13	17	13	10	6.7	9.3
23	16	12	11E	12E	12	13	17	23	22	10	6.6	9.4
24	13	12	11E	12E	14	13	18	237	13	10	6.2	8.9
25	13	11	11E	12E	14E	12	15	113	12	9.3	6.3	9.3
26	13	11	11E	12E	14E	13	14	28	12	10	6.0	9.2
27	13	11	12E	13E	14E	12	14	24	12	9.7	6.0	9.0
28	13	11	13	13	14E	12	14	24	12	9.8	6.7	9.2
29	12	11	12	13	-----	12	18	25	12	9.7	7.0	9.5
30	18	11	12	13E	-----	13	22	26	12	9.2	7.3	10
31	23	-----	12	13	-----	13	-----	28	-----	9.4	8.0	-----
TOTAL	415	376	345	382	360	430	414	948	761	311.8	211.4	286.7
MEAN	13.4	12.5	11.1	12.3	12.9	13.9	13.8	30.6	25.4	10.1	6.82	9.56
MAX	25	20	13	13	14	15	22	237	102	12	9.6	23
MIN	10	11	10	12	11	12	12	13	12	9.2	4.3	8.1
AC-FT	823	746	684	758	714	853	821	1,880	1,510	618	419	569
CAL YEAR 2002 TOTAL		4,365.10	MEAN	12.0	MAX	86	MIN	4.9	AC-FT	8,660		
WTR YEAR 2003 TOTAL		5,240.90	MEAN	14.4	MAX	237	MIN	4.3	AC-FT	10,400		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

COURTLAND CANAL from Republican River, 00031000 - 2003

LOCATION.--SE1/4SE1/4 Sec. 7-1-9 W. near Guide Rock

GAGE.--Continuous stage recorder and orifice

PERIOD OF RECORD.--1952 -present

REMARKS.--Values furnished by United States Bureau of Reclamation. Recording gage operated May 13 to August 25. Other flow during 2003 not determined.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									81	111	258	
2									81	118	255	
3									82	144	249	
4									82	170	247	
5									84	210	251	
6									82	219	245	
7									81	242	240	
8									81	258	237	
9									95	266	240	
10									100	266	227	
11									93	262	239	
12									99	256	237	
13								81	105	239	217	
14								139	101	259	224	
15								138	98	264	257	
16								120	79	271	218	
17								101	67	275	189	
18								96	63	275	184	
19								95	79	279	223	
20								92	133	284	193	
21								84	150	287	133	
22								126	147	283	77	
23								115	105	286	60	
24								86	84	288	42	
25								87	80	278	30	
26								83	80	272		
27								82	79	274		
28								81	78	300		
29					-----			81	78	321		
30					-----			80	101	300		
31		-----			-----		-----	81	-----	281		-----
TOTAL								1,848	2,748	7,838	4,972	
MEAN								97.3	91.6	253	199	
MAX								139	150	321	258	
MIN								80	63	111	30	
AC-FT								3,670	5,450	15,550	9,860	
CAL YEAR 2002	MAX	542	MIN	0	AC-FT	71,060						
WTR YEAR 2003	MAX	321	MIN	30	AC-FT	34,520						

REPUBLICAN RIVER BASIN

SUPERIOR CANAL from Republican River, 00137000 - 2003

LOCATION.--NW1/4NW1/4 Sec. 8-1-9 W. near Guide Rock

GAGE.--Continuous stage recorder and 12 ft. Parshall flume

PERIOD OF RECORD.--1951 - present

REMARKS.--Values furnished by United States Bureau of Reclamation

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	32	92	
2									0	32	92	
3									0	25	93	
4									0	50	94	
5									0	92	95	
6									0	91	91	
7									0	90	89	
8									0	93	90	
9									0	95	91	
10									0	93	88	
11									0	94	92	
12									0	91	92	
13									0	90	85	
14									0	96	56	
15									0	96	10	
16									9.5	93	0	
17									16	91	0	
18									15	88	0	
19									15	90	0	
20									17	91	0	
21									18	95	0	
22									17	93	0	
23									18	91	0	
24									17	89	0	
25									15	89	0	
26									17	91	0	
27									17	91	0	
28									17	92	0	
29					-----				16	92	0	
30					-----				27	91	0	
31		-----			-----		-----		-----	92	0	-----
TOTAL									251.5	2,619	1,250	
MEAN									8.38	84.5	40.3	
MAX									27	96	95	
MIN									0	25	0	
AC-FT									499	5,190	2,480	
CAL YEAR 2002	MAX	152	MIN	0	AC-FT	11,260						
WTR YEAR 2003	MAX	96	MIN	0	AC-FT	8,170						

BIG BLUE RIVER BASIN

BIG BLUE RIVER at Surprise, 06879900 - 2003

LOCATION.--NW1/4NW1/4 Sec. 15-13-1 E., Butler County, Lat. 41° 06' 05", Long. 97° 18' 35", on left bank 50 feet downstream from bridge on county road at south edge of Surprise.

DRAINAGE AREA.--345 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,522.84 feet above mean sea level.

PERIOD OF RECORD.--1964 - present (Published as North Branch Big Blue River at Surprise WY 1964)

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1993. Records are fair, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 10,700 cubic feet per second July 19, 1965, gage height 11.52 feet; no flow for many days in many years.

EXTREMES FOR CURRENT YEAR.--Peak discharge 388 cubic feet per second September 11, gage height 3.48 feet; no flow many days.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.02	.03E	.07E	.06E	.11E	.85	12	.78	5.1	3.1	.17
2	.03	.07	.02E	.07E	.07E	.12E	1.3	7.9	1.1	3.0	1.5	.11
3	.14	.11	.01E	.07E	.07E	.11E	.40	4.6	1.1	2.4	1.2	.06
4	.70	.12	.02E	.07E	.06E	.10E	.14	17	1.4	1.8	1.2	.04
5	.31	.23	.03E	.08E	.06E	.09E	.15	39	2.0	2.0	2.5	0
6	.19	.27	.05E	.08E	.06E	.10E	.55	21	5.7	2.4	5.2	0
7	.17	.40	.05E	.08E	.05E	.22E	.71	15	17	2.3	4.3	.04
8	.20	.52	.07E	.07E	.05E	.28E	.47	9.1	26	2.1	5.8	.07
9	.17	.71	.09E	.04E	.06E	.27E	.53	6.9	9.6	1.8	4.6	6.2
10	.18	.61	.10	.04E	.06E	.30E	.85	32	101	1.9	4.6	9.9
11	.19	.01	.10	.04E	.08E	.40E	.36	19	95	1.2	2.6	216
12	.21	0	.10	.03E	.08E	.60E	.26	7.2	43	.60	2.2	188
13	.13	.03	.10E	.02E	.09E	.80E	.28	4.3	26	1.4	4.2	140
14	.14	.10	.10E	.02E	.10E	1.0 E	.50	4.3	19	1.9	4.7	123
15	.14	.18	.10E	.02E	.10E	1.5	.74	8.5	8.5	2.0	2.2	73
16	.30	.26	.11E	.02E	.09E	2.4	.53	8.0	4.9	2.9	1.2	43
17	.54	.36	.11E	.02E	.07E	1.8	.18	5.5	2.7	2.3	2.0	27
18	.64	.36	.10E	.02E	.08E	1.3	.14	3.0	2.0	2.2	1.2	16
19	.65	.36E	.08E	.02E	.12E	.78	.21	3.5	2.0	2.3	1.1	7.7
20	.56	.35E	.08E	.02E	.18E	.85	.24	36	1.3	2.1	.81	3.4
21	.02	.34E	.07E	.02E	.22E	1.3	.25	22	.77	3.5	.68	1.6
22	0	.31E	.07E	.02E	.25E	1.6	.25	9.6	.67	8.4	.89	.51
23	.01	.31E	.07E	.02E	.22E	1.3	.34	4.8	.66	6.5	2.2	.14
24	.06	.29E	.07E	.02E	.18E	1.5	.57	3.5	.71	4.0	1.6	.03
25	.09	.20E	.07E	.02E	.12E	.91	.47	2.6	28	3.5	1.7	0
26	.11	.11E	.07E	.02E	.10E	.80	.62	2.0	123	6.5	2.1	0
27	.06	.10E	.08E	.02E	.10E	.72	.80	1.6	72	5.1	.78	0
28	.06	.09E	.08E	.02E	.11E	.34	1.7	1.4	37	4.8	.33	0
29	0	.08E	.09E	.02E	-----	.16	3.9	1.2	22	4.8	.49	0
30	0	.04E	.08E	.02E	-----	.16	13	.86	11	3.4	.65	0
31	0	-----	.07E	.04E	-----	.39	-----	.93	-----	4.3	.41	-----
TOTAL	6.00	6.94	2.27	1.14	2.89	22.31	31.29	314.29	665.89	98.50	68.04	855.97
MEAN	.19	.23	.073	.037	.10	.72	1.04	10.1	22.2	3.18	2.19	28.5
MAX	.70	.71	.11	.08	.25	2.4	13	39	123	8.4	5.8	216
MIN	0	0	.01	.02	.05	.09	.14	.86	.66	.60	.33	0
AC-FT	12	14	4.5	2.3	5.7	44	62	623	1,320	195	135	1,700
CAL YEAR 2002 TOTAL		2,355.85	MEAN	6.45	MAX	426	MIN	0	AC-FT	4,670		
WTR YEAR 2003 TOTAL		2,075.53	MEAN	5.69	MAX	216	MIN	0	AC-FT	4,120		

E indicates estimated discharge.

BIG BLUE RIVER BASIN

LINCOLN CREEK near Seward, 06880000 - 2003

LOCATION.--NW1/4NE1/4 Sec. 24-11-2 E., Seward County, Lat. 40° 54' 57", Long. 97° 08' 43", on left bank at downstream side of county road bridge, 2 miles west of Seward, and 3.8 miles upstream from mouth.

DRAINAGE AREA.--438 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,429.27 feet above sea level.

PERIOD OF RECORD.--1953 - 1973, March 1974 - present. Month discharge only for some periods, published in WSP 1730.

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1994. Records are good except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 10,100 cubic feet per second June 17, 1957, gage height 20.53 feet; minimum daily discharge 1.3 cubic feet per second July 31, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharge 706 cubic feet per second June 10, gage height 13.43 feet; minimum daily discharge 9.3 cubic feet per second September 30.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	14	13E	13 E	18E	14E	17	23	20	41	18	11
2	10	14	12E	13 E	20E	14E	17	20	20	30	16	11
3	13	14	12E	13 E	22E	14E	17	20	20	28	16	10
4	40	14	12E	11 E	20E	14E	17	44	20	23	16	11
5	14	14	12E	9.8E	17E	14E	17	52	20	19	18	11
6	11	14	12E	9.8E	17E	14E	17	32	20	17	17	10
7	11	14	13E	10 E	17E	14E	18	28	25	16	15	10
8	11	13	13E	12 E	16E	14E	18	31	24	16	14	10
9	11	14	13E	13 E	14E	15E	18	36	21	14	15	19
10	10	14	13E	14 E	14E	15E	18	26	613	14	14	38
11	10	14	13E	14 E	15E	16	18	25	606	13	13	341
12	10	14	13E	14 E	15E	16	18	29	108	12	13	492
13	10	14	13E	14 E	16E	16	18	31	43	14	14	235
14	10	14	13E	13 E	17E	16	18	28	36	16	15	51
15	11	14	13E	13 E	17E	17	18	25	31	17	14	75
16	11	14	13E	15 E	16E	17	18	23	28	15	14	60
17	12	14	13E	18 E	16E	18	18	22	26	16	14	37
18	11	14	13E	19 E	15E	18	18	24	84	15	15	26
19	11	14	13E	20 E	15E	18	18	31	39	14	18	20
20	11	14	13E	18 E	15E	19	18	25	25	15	18	17
21	12	14E	13E	17 E	16E	19	18	23	24	20	17	14
22	12	14E	13E	16 E	16E	19	18	22	24	23	15	12
23	13	14E	13E	13 E	15E	19	18	22	23	21	14	11
24	13	13E	12E	12 E	14E	19	19	21	22	18	12	10
25	13	13E	12E	12 E	13E	18	19	21	175	20	13	14
26	13	13E	11E	11 E	13E	18	19	21	261	20	12	13
27	13	12E	12E	11 E	13E	18	19	21	231	17	13	11
28	13	12E	13E	12 E	13E	17	19	22	142	18	13	9.9
29	14	12E	14E	13 E	-----	17	20	21	64	16	12	9.5
30	14	12E	14E	15 E	-----	17	21	21	58	16	11	9.3
31	14	-----	13E	17 E	-----	17	-----	20	-----	18	10	-----
TOTAL	391.7	408	395	425.6	445	511	544	810	2,853	572	449	1,608.7
MEAN	12.6	13.6	12.7	13.7	15.9	16.5	18.1	26.1	95.1	18.5	14.5	53.6
MAX	40	14	14	20	22	19	21	52	613	41	18	492
MIN	9.7	12	11	9.8	13	14	17	20	20	12	10	9.3
AC-FT	777	809	783	844	883	1,010	1,080	1,610	5,660	1,130	891	3,190
CAL YEAR 2002	TOTAL	9,913.50	MEAN	27.2	MAX	587	MIN	9.1	AC-FT	19,660		
WTR YEAR 2003	TOTAL	9,413.00	MEAN	25.8	MAX	613	MIN	9.3	AC-FT	18,670		

E indicates estimated discharge.

BIG BLUE RIVER BASIN

BIG BLUE RIVER at Seward, 06880500 - 2003

LOCATION.--SE1/4SW1/4 Sec. 20-11-3 E., Seward County, Lat. 40° 54' 10", Long. 97° 06' 40", at downstream end of right abutment of bridge on U.S. Highway 34 at west edge of Seward, 1.7 miles upstream of Plum Creek, and 0.2 mile downstream from Lincoln Creek.

DRAINAGE AREA.--1,107 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,421.49 feet above sea level.

PERIOD OF RECORD.--1954 - present. Monthly discharge only for some periods, published in WSP 1730.

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 15,300 cubic feet per second June 18, 1957, gage height 22.34 feet; no flow July 30-31, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,060 cubic feet per second June 10, gage height 9.95 feet; minimum daily discharge 8.0 cubic feet per second August 31.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	16	16E	20E	25	22E	25	38	18	87	23	9.8
2	12	16	16E	20E	24E	23E	23	39	20	63	19	9.5
3	14	16	16E	20E	23E	21E	22	42	20	51	23	8.1
4	126	16	16E	21E	21E	20E	24	58	19	45	22	10
5	38	16	16E	20E	20E	20E	25	154	20	34	25	12
6	20	15	16E	21E	18E	21E	26	117	21	27	23	11
7	16	16	17E	21E	17E	22E	29	81	27	26	16	11
8	15	16	18E	23E	17E	21E	28	84	35	23	14	11
9	14	16	18E	23E	18E	20E	29	87	36	18	16	32
10	12	16	18E	21E	21E	25E	30	73	822	17	18	73
11	12	15	19E	19E	22	28E	31	59	724	11	13	365
12	11	16	19E	19E	22	30	32	52	344	8.6	10	705
13	11	16	19E	20E	22	30	29	68	161	11	11	512
14	12	16	19E	20E	22	31	28	57	92	13	12	220
15	12	17	19E	20E	22E	31	27	45	60	14	11	207
16	14	17	19E	19E	20E	32	27	46	51	9.9	13	189
17	15	17	20E	18E	21E	42	25	36	51	13	13	140
18	14	17	20E	19E	23E	47	24	35	202	14	12	104
19	14	18	20E	20E	25E	45	24	74	279	13	24	74
20	14	18	20E	21E	28E	45	23	53	42	18	29	54
21	13	18	18E	19E	30E	43	22	37	32	27	24	40
22	11	18	18E	18E	28E	39	21	40	35	33	18	29
23	11	18	17E	17E	24E	38	21	52	36	26	16	21
24	12	17E	17E	17E	21E	35	24	43	36	20	12	18
25	13	17E	16E	17E	20E	32	22	36	133	28	12	21
26	13	15E	17E	18E	20E	31	22	29	220	34	9.2	19
27	14	15E	18E	21E	20E	30	22	25	195	28	11	15
28	15	15E	20E	24E	21E	28	22	25	219	26	13	13
29	16	16E	20E	26E	-----	26	27	23	151	19	11	12
30	17	17E	20E	28	-----	25	31	22	112	13	8.4	11
31	17	-----	20E	26E	-----	24	-----	20	-----	18	8.0	-----
TOTAL	558	492	562	636	615	927	765	1,650	4,213	788.5	489.6	2,956.4
MEAN	18.0	16.4	18.1	20.5	22.0	29.9	25.5	53.2	140	25.4	15.8	98.5
MAX	126	18	20	28	30	47	32	154	822	87	29	705
MIN	10	15	16	17	17	20	21	20	18	8.6	8.0	8.1
AC-FT	1,110	976	1,110	1,260	1,220	1,840	1,520	3,270	8,360	1,560	971	5,860
CAL YEAR 2002	TOTAL	17,914.80	MEAN	49.1	MAX	926	MIN	7.9	AC-FT	35,530		
WTR YEAR 2003	TOTAL	14,652.50	MEAN	40.1	MAX	822	MIN	8.0	AC-FT	29,060		

E indicates estimated discharge.

BIG BLUE RIVER BASIN

TURKEY CREEK near Wilber, 06881200 - 2003

LOCATION.--NE1/4NE1/4 Sec. 19-6-4 E., Saline County, Lat. 40° 28' 48", Long. 97° 00' 43", on left bank near downstream side of bridge on State Highway 41, 2.8 miles west of Wilber.

DRAINAGE AREA.--461 square miles.

GAGE.--Continuous stage recorder. Gage datum 1322.00 feet above sea level.

PERIOD OF RECORD.--1959 - present

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 33,000 cubic feet per second June 13, 1984, gage height 21.43 feet.
No flow September 20, 21, 24, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge 3,080 cubic feet per second September 14, gage height 14.54 feet; minimum daily discharge 0.57 cubic feet per second October 1.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.57	8.5	4.1	4.0E	8.0	2.7E	7.8	34	18	11	1.9	.85
2	23	6.7	3.7	4.0E	8.2	3.0E	7.9	28	19	8.6	1.6	.71
3	16	5.1	4.2	4.5E	9.6	3.4E	8.1	35	19	7.9	2.0	.73
4	643	18	3.7	4.9E	10 E	3.4E	8.1	28	21	7.5	2.0	.84
5	574	13	3.2	4.8E	7.2E	2.7E	8.1	91	19	6.6	1.6	.93
6	338	8.9	3.6	4.6E	4.8E	2.4E	8.7	76	18	5.4	1.1	.74
7	150	7.2	3.3	4.4E	3.4E	2.8E	10	30	19	4.9	1.2	.82
8	51	6.4	3.2	4.4E	3.5E	3.1E	10	36	21	4.2	1.9	.74
9	23	5.7	3.1	4.4E	3.8E	2.7E	12	139	19	3.6	1.4	1.9
10	14	4.4	3.6	4.0E	4.1E	3.4E	11	99	18	2.6	1.1	1.2
11	10	3.6	4.4	3.4E	5.8E	7.4E	9.8	54	21	2.0	1.7	364
12	6.6	2.8	4.1	3.5E	6.8E	11 E	9.4	43	83	1.7	1.2	1,130
13	5.0	2.7	4.8	3.8E	7.0E	12	10	30	211	2.3	.91	1,450
14	3.7	2.7	4.8	3.5E	7.8E	11	10	25	64	1.8	1.2	2,810
15	2.8	2.4	5.0	3.4E	6.0E	11	10	22	34	3.3	1.1	1,470
16	2.6	2.2	5.1	3.0E	4.4E	12	10	20	28	2.8	1.6	275
17	2.3	2.4	5.4	2.0E	5.0E	13	9.7	18	42	1.9	1.4	156
18	2.2	2.3	5.4	2.4E	5.4E	49	9.6	18	31	1.5	2.8	95
19	1.9	2.3	5.0	2.4E	7.0E	19	10	71	23	1.9	14	56
20	1.6	2.8	4.2	2.4E	9.4	18	10	337	19	1.5	8.1	42
21	1.7	2.6	3.9	2.6E	11	15	9.8	489	18	1.5	3.2	30
22	1.6	2.4	3.9	2.1E	9.8E	12	10	460	16	1.3	1.4	24
23	1.6	2.4	3.8	1.8E	5.8E	11	11	207	19	2.5	.86	21
24	1.7	2.5	3.7	2.1E	2.9E	10	11	84	14	1.7	.72	18
25	2.4	2.7	3.4	2.4E	2.0E	9.2	12	48	13	1.5	.71	16
26	2.2	2.6	3.3	2.5E	1.9E	8.6	13	36	12	1.4	.77	13
27	2.1	2.8	3.0E	3.0E	2.0E	8.4	13	30	11	1.4	.80	10
28	2.3	3.4	3.0E	3.1E	2.2E	8.2	13	26	10	2.1	.80	8.6
29	2.3	3.4	3.6E	4.0E	-----	7.8	34	23	12	1.6	.70	8.4
30	17	3.4	4.0E	5.0E	-----	8.0	88	20	14	1.7	.82	8.4
31	22	-----	4.0E	6.6	-----	7.8	-----	19	-----	1.7	1.1	-----
TOTAL	1,928.17	138.3	123.5	109.0	164.8	299.0	405.0	2,676	886	101.4	61.69	8,014.86
MEAN	62.2	4.61	3.98	3.52	5.89	9.65	13.5	86.3	29.5	3.27	1.99	267
MAX	643	18	5.4	6.6	11	49	88	489	211	11	14	2,810
MIN	.57	2.2	3.0	1.8	1.9	2.4	7.8	18	10	1.3	.70	.71
AC-FT	3,820	274	245	216	327	593	803	5,310	1,760	201	122	15,900
CAL YEAR 2002 TOTAL		8,367.91	MEAN	22.9	MAX	643	MIN	.44	AC-FT	16,600		
WTR YEAR 2003 TOTAL		14,907.72	MEAN	40.8	MAX	2,810	MIN	.57	AC-FT	29,570		

E indicates estimated discharge.

BIG BLUE RIVER BASIN

BIG BLUE RIVER at Beatrice, 06881500 - 2003

LOCATION.--SW1/4NW1/4 Sec. 3-3-6 E., Gage County, Lat. 40° 15' 22", Long. 96° 44' 47", at the left upstream side of U.S. Highway 77 bridge, which is 6th street in Beatrice.

DRAINAGE AREA.--3,900 square miles, approximately 3,830 square miles contributes to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 1,219.90 feet above mean sea level.

PERIOD OF RECORD.--1910 - 1915, (Month discharge only for some periods, published in WSP 1310). 1954, 1960 - 1965, 1967 - 1969, 1971 - 1974 (discharge measurements only), 1974 - present. Gage height records collected 1905 - 1910, 1916 - 1974, are in reports of U.S. Weather Bureau.

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 55,100 cubic feet per second June 14, 1984, gage height 31.27 feet; minimum daily discharge 20 cubic feet per second August 15, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge 5,300 cubic feet per second June 12, gage height 11.13 feet; minimum daily discharge 84 cubic feet per second September 7 & 8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	444	152	170E	165E	135E	181	430	231	516	120	86
2	136	311	150	150E	190E	140E	177	311	256	405	127	86
3	476	247	158	147	210E	140E	179	270	250	326	127	87
4	1,030	204	159	143	230E	140E	199	259	232	280	142	88
5	3,580	185	150E	143	215E	150E	191	241	240	251	143	86
6	2,500	160	155E	149	195E	155E	218	486	252	215	126	85
7	1,130	133	155E	137	175E	160E	246	507	238	181	111	84
8	611	128	155E	130E	150E	180E	254	702	238	164	100	84
9	378	127	175E	130E	150E	190E	250	3,810	250	149	103	113
10	276	123	175E	125E	155E	205E	235	1,510	277	144	95	127
11	221	122	160	115E	155E	230E	222	955	464	136	98	324
12	188	122	183	110E	160E	205	214	631	3,190	121	95	2,930
13	171	122	172	150E	170E	187	211	476	3,550	103	94	4,750
14	155	122	165	155E	190E	183	193	390	3,210	99	104	4,630
15	148	125	162	150E	185E	183	190	340	1,930	98	90	3,940
16	152	121	163	145E	160E	184	198	315	1,340	104	89	2,130
17	140	128	166	130E	165E	506	195	289	916	96	91	1,170
18	132	126	167	130E	170E	455	196	266	643	96	89	933
19	136	131	164	155E	180E	352	195	579	479	99	239	702
20	135	123	161	155E	205E	673	185	1,610	672	103	436	526
21	126	129	164	150E	205E	471	173	1,730	1,020	108	304	411
22	138	137	160E	145E	210E	341	175	1,300	484	105	232	337
23	149	134	160E	125E	170E	290	192	1,010	1,450	113	179	285
24	157	136	165E	125E	155E	259	206	650	1,050	118	162	237
25	155	140	155E	130E	140E	240	198	479	600	130	134	207
26	143	141	160E	125E	125E	232	197	393	424	126	109	180
27	163	147	160E	125E	125E	213	191	347	348	117	98	159
28	157	150	175E	135E	130E	209	177	309	440	137	115	143
29	173	145	170E	150E	-----	202	200	273	526	147	100	140
30	272	150	170E	155E	-----	196	246	244	543	154	87	142
31	572	-----	175E	160E	-----	184	-----	230	-----	133	89	-----
TOTAL	13,999	4,713	5,061	4,344	4,835	7,590	6,084	21,342	25,743	5,074	4,228	25,202
MEAN	452	157	163	140	173	245	203	688	858	164	136	840
MAX	3,580	444	183	170	230	673	254	3,810	3,550	516	436	4,750
MIN	99	121	150	110	125	135	173	230	231	96	87	84
AC-FT	27,770	9,350	10,040	8,620	9,590	15,050	12,070	42,330	51,060	10,060	8,390	49,990
CAL YEAR 2002 TOTAL		124,573	MEAN	341	MAX	6,420	MIN	85	AC-FT	247,100		
WTR YEAR 2003 TOTAL		128,215	MEAN	351	MAX	4,750	MIN	84	AC-FT	254,300		

E indicates estimated discharge.

LITTLE BLUE RIVER BASIN

BIG SANDY CREEK at Alexandria, 06883940 - 2003

LOCATION.--SE1/4SE1/4 Sec. 11-3-1 W., Thayer County, Lat. 40° 14' 06", Long. 97° 23' 20", on right bank downstream from State Highway 53 bridge, 0.8 mile south of Alexandria.

DRAINAGE AREA.--607 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,390.55 feet above mean sea level.

PERIOD OF RECORD.--1979 - present

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1993. Records are good, except estimated records are fair.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 21,900 cubic feet per second June 13, 1984, gage height 16.71 ft; minimum daily discharge 2.4 cubic feet per second September 11-12, 1996.

EXTREMES FOR CURRENT YEAR.--Peak discharge 8,830 cubic feet per second June 23, gage height 14.27 feet; minimum daily discharge 11 cubic feet per second October 18, 19, 21, 26, and April 28.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2002 TO SEP 2003

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	156	20	20	20	19	17	78	44	117	62	22
2	405	98	19	19	20	18	17	55	47	81	61	18
3	272	66	19	20	20	18	16	32	42	62	56	18
4	2,390	45	20	20	19	20	18	21	39	55	57	17
5	562	32	20	20	18	20	17	16	37	51	56	21
6	166	25	20	19	18	19	21	16	86	46	61	17
7	83	21	20	19	18	18	20	17	160	42	62	17
8	44	19	20	19	17	19	17	850	97	40	59	15
9	25	17	21	19	16	20	17	718	73	39	66	31
10	20	16	20	20	16	20	17	140	443	46	65	35
11	19	15	20	20	15	19	17	89	171	49	56	4,080
12	16	15	20	20	15	19	17	63	93	49	52	3,560
13	15	16	20	20	16	19	17	47	75	52	46	1,570
14	13	15	20	20	17	18	17	149	53	47	53	810
15	13	15	20	20	17	18	16	76	80	41	61	396
16	13	15	20	21	16	17	17	53	111	44	61	190
17	12	16	20	18E	17	17	16	40	105	50	49	114
18	11	16	20	20E	17	18	16	33	80	53	39	85
19	11	16	19	22E	16	19	15	836	65	54	97	67
20	12	16	19	20E	17	19	14	1,060	60	52	110	53
21	11	17	21	19E	17	18	13	570	58	47	56	44
22	12	18	20	18E	18	17	13	276	76	43	31	38
23	15	17	21	17E	18	17	16	178	6,830	51	22	35
24	14	18	20	19E	18	16	16	165	2,660	60	20	33
25	12	19	20	20E	18	17	13	145	559	55	20	31
26	11	19	20	20E	18	17	12	131	185	49	17	28
27	13	18	20	21E	19	18	12	113	142	51	14	27
28	13	18	20	21E	19	17	11	82	122	50	17	24
29	12	18	20	21E	-----	17	16	65	131	37	22	24
30	146	19	19	20	-----	17	77	56	194	42	24	24
31	238	-----	20	20	-----	17	-----	49	-----	55	26	-----
TOTAL	4,613	831	618	612	490	562	538	6,219	12,918	1,610	1,498	11,444
MEAN	149	27.7	19.9	19.7	17.5	18.1	17.9	201	431	51.9	48.3	381
MAX	2,390	156	21	22	20	20	77	1,060	6,830	117	110	4,080
MIN	11	15	19	17	15	16	11	16	37	37	14	15
AC-FT	9,150	1,650	1,230	1,210	972	1,110	1,070	12,340	25,620	3,190	2,970	22,700
CAL YEAR 2002 TOTAL		15,584.00	MEAN	42.7	MAX	2,390	MIN	11	AC-FT	30,910		
WTR YEAR 2003 TOTAL		41,953.00	MEAN	115	MAX	6,830	MIN	11	AC-FT	83,210		

E indicates estimated discharge.