

**STATE OF NEBRASKA**

**DEPARTMENT OF NATURAL  
RESOURCES**

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

**2002**

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

**2002**

**HYDROGRAPHIC REPORT**

**STATE OF NEBRASKA**

**DEPARTMENT OF NATURAL RESOURCES**

# HYDROGRAPHIC REPORT

2002

## 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 2002 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

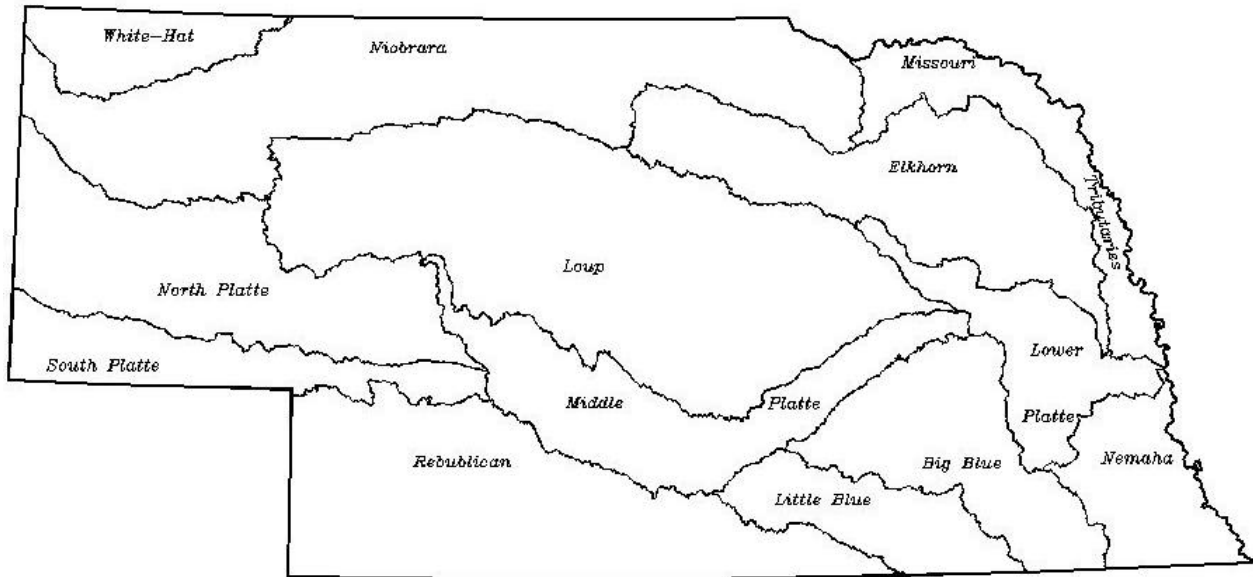
The Hydrographic Report is available on the internet at the department's web page address [www.dnr.state.ne.us](http://www.dnr.state.ne.us). Copies of the Hydrographic Report can be obtained by contacting the Nebraska Department of Natural Resources, PO Box 94676, Lincoln, Nebraska 68509-4676 or by E-mail [glindeman@dnr.state.ne.us](mailto: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](http://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](mailto:mbansal@dnr.state.ne.us)

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Data in each section of this report is listed in the following basin order:

1. Hat Creek
2. White River
3. Ponca Creek
4. Niobrara River
5. Missouri River Tributaries (Niobrara to Platte)
6. Platte River
7. Loup River
8. Elkhorn River
9. Salt Creek
10. Missouri River Tributaries (Platte to Nemaha)
11. Nemaha Rivers
12. Republican River
13. Blue Rivers

# WHITE RIVER BASIN

**WHITE RIVER at Crawford, 06444000 - 2002**

LOCATION.--SE1/4NW1/4 Sec. 3-31-52 W., Dawes County, Lat. 42° 41' 33", Long. 103° 25' 03", 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 45 cubic feet per second July 22, gage height 2.88 feet; minimum daily discharge 7.8 cubic feet per second August 3.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	20	24	19E	22E	26E	29	29	18	11	8.1	11
2	13	20	24	19E	22E	27E	27	29	18	10	7.9	10
3	13	20	25	19E	23E	28E	26	25	20	10	7.8	10
4	14	20	24	22	23E	29	26	25	23	12	8.3	10
5	18	21	24	22	23	28	25	25	22	11	9.3	10
6	16	20	23	23	23	27	26	25	20	11	11	9.7
7	15	21	24	24	23	26	27	26	19	12	9.8	9.9
8	14	21	23	26	23	26	29	27	19	10	9.1	11
9	14	21	23	25	23	26E	27	25	18	9.6	8.8	12
10	16	21	23	23	22E	27E	26	25	18	9.4	9.4	14
11	16	21	23	23	25	27	26	27	17	9.4	9.2	13
12	16	21	22	23	24	27	26	27	17	9.7	9.1	19
13	16	21	22E	23	23	28	25	26	17	9.5	11	21
14	17	21	22E	23	24	28	25	24	17	9.7	11	17
15	17	22	22E	23	24	26	25	23	17	9.2	9.8	15
16	17	22	22	21E	24	26	25	25	17	8.8	9.1	13
17	18	22	22	22E	24	26	24	26	16	8.5	8.1	13
18	18	22	22	22E	25	26	23	25	16	8.4	9.1	14
19	18	23	22	23E	25	25	24	23	16	8.6	9.1	14
20	19	23	22	24	25	26	24	23	16	8.5	9.3	14
21	19	23	23	24	25	24	26	23	16	12	10	14
22	19	23	19E	25	25	25	25	24	16	18	9.8	14
23	19	23	20E	24	25	26	24	23	15	12	11	15
24	20	23	21E	23	25	25	23	22	14	11	12	15
25	20	23	21E	25	21E	24	23	22	13	10	13	14
26	19	23	23	25	22E	25	24	21	14	11	11	15
27	20	24	23	25	23E	27	25	20	13	11	11	15
28	20	26	20E	24	25E	31	26	20	13	10	13	16
29	19	24	20E	22E	-----	31	24	19	12	10	13	16
30	20	24	20E	22E	-----	30	24	18	11	9.3	12	15
31	20	-----	19E	22E	-----	29	-----	18	-----	9.0	12	-----
TOTAL	533	659	687	710	661	832	759	740	498	319.6	312.1	409.6
MEAN	17.2	22.0	22.2	22.9	23.6	26.8	25.3	23.9	16.6	10.3	10.1	13.7
MAX	20	26	25	26	25	31	29	29	23	18	13	21
MIN	13	20	19	19	21	24	23	18	11	8.4	7.8	9.7
AC-FT	1,060	1,310	1,360	1,410	1,310	1,650	1,510	1,470	988	634	619	812
CAL YEAR 2001	TOTAL	7,381.10	MEAN	20.2	MAX	69	MIN	8.5	AC-FT	14,640		
WTR YEAR 2002	TOTAL	7,120.30	MEAN	19.5	MAX	31	MIN	7.8	AC-FT	14,120		

E indicates estimated discharge.

# WHITE RIVER BASIN

**WHITNEY RESERVOIR from White River, 00410000 - 2002**

LOCATION.--NWL/4SE1/4 Sec. 34-33-51 W. near Whitney

GAGE.--Staff gage

PERIOD OF RECORD.--1925 - 1929, 1933 - 1942, 1944 - present

STORAGE LEVEL	GAGE HEIGHT	CONTENT
	(Feet)	(Acre-feet)
Top of conservation pool	17.70	10,700
Top of dead storage pool	5.00	500

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24	6,370											
25												
26												
27												
28												
29												
30												
31	-----											
					-----			-----	10,250	-----		-----



# NIOBRARA RIVER BASIN

## NIOBRARA RIVER at Wyoming-Nebraska State Line, 06454000 - 2002

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 good, 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 12 cubic feet per second April 26, gage height 2.94 feet; maximum gage height 3.56 feet February 9 due to backwater from ice or snow in the channel; minimum daily discharge 1.4 cubic feet per second August 17 & 19.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.9	3.8	2.6	3.2	3.5	7.1	5.1	3.0	2.0	1.6	1.6
2	2.0	2.8	3.9	2.6	3.3	3.4	6.6	5.0	3.2	2.0	1.5	1.5
3	2.0	2.9	4.0	2.8	3.3	3.5	5.9	4.7	3.2	2.1	1.6	1.5
4	2.2	3.0	3.9	3.0	3.3	3.5	6.0	4.4	3.5	2.5	1.5	1.5
5	2.5	3.1	3.7	3.0	3.3	3.6	5.4	4.4	3.2	2.3	1.6	1.6
6	2.4	3.2	3.5	3.1	3.3	3.5	5.3	4.3	3.1	2.2	1.6	1.6
7	2.3	3.2	3.6	3.3	3.4	3.5	5.1	4.1	2.9	2.3	1.6	1.6
8	2.3	3.0	3.4	3.4	3.4	3.4	5.2	4.0	3.0	2.2	1.6	1.6
9	2.6	3.0	3.5	3.5	3.4E	3.4E	5.2	3.5	2.9	2.1	1.5	1.8
10	2.7	3.1	3.4	3.4	3.4E	3.5	5.4	3.5	2.8	2.1	1.5	1.8
11	2.4	3.1	3.4	3.4	3.6E	3.6	5.2	3.9	2.7	2.1	1.5	1.7
12	2.5	3.2	3.3	3.4	3.6	3.7	5.0	3.7	2.6	2.1	1.5	2.2
13	2.5	3.4	3.1	3.4	3.6	3.6E	5.0	3.4	2.6	2.0	1.6	2.4
14	2.5	3.4	3.0	3.4	3.5	3.4E	4.9	3.4	2.5	1.9	1.5	2.0
15	2.6	3.4	3.0E	3.5	3.5	3.2	4.8	3.4	2.5	1.8	1.5	1.9
16	2.6	3.4	3.1	3.5	3.5	3.2	4.5	3.7	2.5	1.8	1.5	1.8
17	2.6	3.4	3.0	3.5	3.6	3.3	4.4	3.7	2.5	1.8	1.4	1.9
18	2.6	3.5	3.2	3.5	3.7	3.4	4.5	3.5	2.5	1.8	1.5	2.0
19	2.7	3.4	3.1	3.5	3.7	3.2	4.5	3.4	2.5	1.8	1.4	2.0
20	2.7	3.5	3.0E	3.5	3.6	3.3	4.3	3.2	2.4	1.9	1.5	2.0
21	2.7	3.5	3.0E	3.6	3.6	3.5	4.6	3.3	2.5	2.1	1.5	2.1
22	2.7	3.6	2.8E	3.7	3.8	3.5E	4.8	3.2	2.6	2.3	1.5	2.1
23	2.9	3.7	2.8E	3.7	3.8	3.8	4.7	3.1	2.4	2.0	1.5	2.2
24	2.9	3.6	2.8	3.6	3.7	3.6	4.4	3.1	2.4	1.9	1.6	2.3
25	2.7	3.6	2.9	3.6	3.6	3.6	4.2	3.1	2.3	1.8	1.6	2.2
26	2.7	3.8	3.0	3.6	3.8E	3.6	4.9	3.1	2.3	2.0	1.6	2.3
27	2.8	3.9	3.0	3.7	3.8E	4.1	6.8	3.1	2.3	1.8	1.6	2.3
28	2.9	3.7	2.8	3.5	3.7	4.9	4.9	3.1	2.2	1.7	1.6	2.3
29	2.8	3.8	2.8E	3.4	-----	6.1	4.5	3.0	2.1	1.7	1.6	2.3
30	2.8	3.9	2.7	3.3	-----	5.9	4.5	3.0	2.0	1.6	1.6	2.2
31	2.9	-----	2.7	3.3	-----	5.7	-----	3.0	-----	1.6	1.6	-----
TOTAL	79.5	101.0	99.2	104.3	99.0	117.0	152.6	112.4	79.2	61.3	47.8	58.3
MEAN	2.56	3.37	3.20	3.36	3.54	3.77	5.09	3.63	2.64	1.98	1.54	1.94
MAX	2.9	3.9	4.0	3.7	3.8	6.1	7.1	5.1	3.5	2.5	1.6	2.4
MIN	2.0	2.8	2.7	2.6	3.2	3.2	4.2	3.0	2.0	1.6	1.4	1.5
AC-FT	158	200	197	207	196	232	303	223	157	122	95	116
CAL YEAR 2001 TOTAL		1,246.90	MEAN	3.42	MAX	9.5	MIN	1.6	AC-FT	2,470		
WTR YEAR 2002 TOTAL		1,111.60	MEAN	3.05	MAX	7.1	MIN	1.4	AC-FT	2,200		

E indicates estimated discharge.

# NIOBRARA RIVER BASIN

**JOHNSON CANAL from Niobrara River, 00072000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3							4.1	0	0	0	0
2	2.2							4.1	0	0	0	0
3	2.2							4.3	0	0	0	0
4	2.2							4.3	0	0	0	0
5	2.4							3.8	0	0	0	0
6	2.4							3.6	0	0	0	0
7	2.4							3.3	0	0	0	0
8	1.2							3.3	0	0	0	0
9	0							3.4	0	0	0	0
10								3.4	.08	0	0	0
11								3.7	.39	0	0	0
12								3.7	0	0	0	0
13								3.8	0	0	0	.44
14								3.6	0	0	0	.34
15								3.3	0	0	0	.48
16								3.3	0	0	0	.48
17							0	3.3	0	0	0	.52
18							0	3.7	0	0	0	.81
19							0	3.1	0	0	0	1.0
20							0	2.2	0	0	0	.36
21							0	2.1	0	0	0	0
22							0	2.0	0	0	0	0
23							0	2.0	0	0	0	0
24							1.6	2.0	0	0	0	0
25							2.6	2.0	0	0	0	0
26							2.3	2.0	0	0	0	0
27							2.5	.93	0	0	0	0
28							3.1	0	0	0	0	0
29					-----		4.0	0	0	0	0	0
30					-----		3.9	0	0	0	0	0
31		-----			-----		-----	0	-----	0	0	-----
TOTAL	17.3						20.0	84.33	0.47	0	0	4.43
MEAN	1.92						1.43	2.72	.016	0	0	.18
MAX	2.4						4.0	4.3	.39	0	0	1.0
MIN	0						0	0	0	0	0	0
AC-FT	34						40	167	.9	0	0	8.8
CAL YEAR 2001	MAX	3.0	MIN	0	AC-FT	251						
WTR YEAR 2002	MAX	4.3	MIN	0	AC-FT	251						

# NIOBRARA RIVER BASIN

**LAKOTAH CANAL from Niobrara River, 00079000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								1.2	2.2	.48	.06	0
2								1.2	2.1	.41	.08	0
3								.89	2.2	.30	.08	0
4								.83	2.5	.34	.08	0
5								.89	2.5	.34	.08	0
6								1.2	2.4	.34	.09	
7								1.1	2.4	.37	.09	0
8								1.1	2.2	.34	.09	0
9								1.0	2.1	.35	.09	0
10								1.0	1.9	.34	.05	0
11								1.2	1.2	.30	.02	0
12								.90	1.4	.27	0	0
13								.83	1.4	.27	0	0
14								.85	1.4	.24	0	0
15							0	1.3	.96	.21	0	0
16							1.4	1.3	.68	.15	0	0
17							5.0	1.3	.63	.12	0	0
18							4.7	1.3	.58	.11	0	
19							4.7	.89	.68	.09	0	
20							4.7	2.0	.82	.01	0	
21							4.8	2.2	.83	0	0	
22							5.0	2.0	.89	.02	0	
23							4.6	1.9	.85	.07	0	
24							3.8	1.9	.89	.06	0	
25							.73	2.0	.81	.06	0	
26							.80	1.9	.75	.09	0	
27							1.2	1.9	.78	.11	0	
28							1.3	2.6	.63	.11	0	
29					-----		1.3	2.7	.58	.09	0	
30					-----		1.4	2.5	.50	.06	0	
31		-----			-----		-----	2.4	-----	.06	0	-----
TOTAL							45.43	46.28	39.76	6.11	0.81	0
MEAN							2.84	1.49	1.33	.20	.026	0
MAX							5.0	2.7	2.5	.48	.09	0
MIN							0	.83	.50	0	0	0
AC-FT							90	92	79	12	1.6	0
CAL YEAR 2001	MAX	5.5	MIN	0	AC-FT	392						
WTR YEAR 2002	MAX	5.0	MIN	0	AC-FT	274						

# NIOBRARA RIVER BASIN

**EARNEST CANAL (SOUTH) from Niobrara River, 00038100 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	1.5	0	0	0
2								0	1.6	0	0	0
3								1.2	1.8	0	0	0
4								5.2	2.1	0	0	0
5								4.9	2.2	0	0	0
6								4.2	1.9	0	0	0
7								3.2	1.8	0	0	0
8								2.5	1.9	0	0	0
9								2.5	2.2	0	0	0
10								2.6	2.4	0	0	0
11								2.9	2.6	0	0	0
12								3.3	2.8	0	0	0
13								3.8	2.8	0	0	0
14								3.9	2.7	0	0	0
15								3.6	2.7	0	0	0
16							0	3.6	2.7	0	0	0
17							0	3.6	1.7	0	0	0
18							0	3.5	0	0	0	0
19							0	3.5	0	0	0	0
20							0	3.4	0	0	0	0
21							0	3.1	0	0	0	0
22							0	2.9	0	0	0	0
23							0	2.8	0	0	0	0
24							0	2.7	0	0	0	0
25							0	2.8	0	0	0	0
26							0	2.7	0	0	0	0
27							0	2.7	0	0	0	0
28							0	3.4	0	0	0	0
29					-----		0	3.4	0	0	0	0
30					-----		0	2.1	0	0	0	0
31		-----			-----		-----	1.4	-----	0	0	-----
TOTAL							0	91.4	37.4	0	0	0
MEAN							0	2.95	1.25	0	0	0
MAX							0	5.2	2.8	0	0	0
MIN							0	0	0	0	0	0
AC-FT							0	181	74	0	0	0
WTR YEAR 2002	MAX	5.2	MIN	0	AC-FT	255						

# NIOBRARA RIVER BASIN

**EARNEST CANAL (NORTH) from Niobrara River, 00038200 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								2.4	3.0	0	0	0
2								2.5	3.0	0	0	0
3								2.1	3.0	0	0	0
4								1.7	3.1	0	0	0
5								2.2	3.1	0	0	0
6								2.1	2.8	0	0	.14
7								2.2	2.2	0	0	.34
8								2.3	2.0	0	0	.51
9								2.2	1.8	0	0	.80
10								2.1	1.7	0	0	1.0
11								2.0	.51	0	0	1.1
12								2.2	0	0	0	1.6
13								2.4	0	0	0	1.7
14								2.4	0	0	0	1.8
15								2.4	0	0	0	1.9
16								2.5	0	0	0	1.9
17							0	2.6	0	0	0	1.9
18							0	2.7	0	0	0	1.9
19							0	2.6	0	0	0	2.0
20							0	2.6	0	0	0	2.0
21							0	2.8	0	0	0	2.0
22							0	2.9	0	0	0	2.0
23							0	3.0	0	0	0	2.0
24							0	3.0	0	0	0	2.0
25							0	3.1	0	0	0	2.0
26							0	3.1	0	0	0	2.1
27							0	3.1	0	0	0	2.2
28							0	3.2	0	0	0	2.3
29					-----		1.0	2.8	0	0	0	2.3
30					-----		2.2	2.7	0	0	0	2.3
31		-----			-----		-----	3.0	-----	0	0	-----
TOTAL							3.2	78.9	26.21	0	0	41.79
MEAN							.23	2.55	.87	0	0	1.39
MAX							2.2	3.2	3.1	0	0	2.3
MIN							0	1.7	0	0	0	0
AC-FT							6.3	156	52	0	0	83
CAL YEAR 2001	MAX	3.6	MIN	0	AC-FT	180						
WTR YEAR 2002	MAX	3.2	MIN	0	AC-FT	298						

# NIOBRARA RIVER BASIN

## McGINLEY-STOVER CANAL from Niobrara River, 00084000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7							4.4	0	0	.77	0
2	1.7							4.0	0	0	.81	0
3	.94							4.0	0	0	1.1	0
4	1.1							3.7	0	0	.90	0
5	1.3							3.7	0	0	.94	0
6	1.3							3.9	0	0	1.0	0
7	1.2							3.9	0	0	.86	0
8	1.2							4.0	0	.65	.77	0
9	1.2						0	3.5	0	1.4	.98	0
10	1.1						0	3.3	0	1.3	.43	0
11	1.1						0	3.3	0	1.1	0	0
12	1.1						0	3.0	0	1.0	0	0
13	1.0						0	2.8	0	.94	0	0
14	.34						0	2.7	0	.86	0	0
15							0	2.8	0	.73	.24	0
16							0	4.3	0	1.0	.73	0
17							0	4.0	0	1.1	.62	0
18							0	3.7	.69	.94	.90	0
19							0	3.4	2.5	.50	.81	0
20							0	3.2	2.3	0	.73	0
21							0	3.2	2.2	0	.86	0
22							0	2.7	2.1	0	.81	0
23							0	2.7	1.7	0	.39	0
24							2.1	2.7	2.3	0	0	0
25							4.3	2.6	1.7	0	.30	0
26							4.0	2.5	1.1	0	1.0	0
27							3.8	2.4	1.0	0	.88	0
28							3.4	3.6	.86	0	.70	0
29					-----		3.1	3.5	.73	0	.48	0
30					-----		3.1	2.0	.12	.59	0	0
31		-----			-----		-----	0	-----	.90	0	-----
TOTAL	16.28						23.8	99.5	19.30	13.01	18.01	0
MEAN	1.16						1.08	3.21	.64	.42	.58	0
MAX	1.7						4.3	4.4	2.5	1.4	1.1	0
MIN	.34						0	0	0	0	0	0
AC-FT	32						47	197	38	26	36	0
CAL YEAR 2001	MAX	5.3	MIN	0	AC-FT	402						
WTR YEAR 2002	MAX	4.4	MIN	0	AC-FT	377						

# NIOBRARA RIVER BASIN

**COOK CANAL NO. 1 from Niobrara River, 00029000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	0	0	0	0	0	0	0	0	0	0	0
2	1.4	0	0	0	0	0	0	0	0	0	0	0
3	1.4	0	0	0	0	0	0	0	0	0	0	0
4	1.7	0	0	0	0	0	0	0	0	0	0	0
5	1.8	0	0	0	0	0	0	0	0	0	0	0
6	1.8	0	0	0	0	0	0	0	0	0	0	0
7	1.8	0	0	0	0	0	0	0	0	0	0	0
8	1.8	0	0	0	0	0	0	0	0	0	0	0
9	1.8	0	0	0	0	0	0	0	0	0	0	0
10	1.9	0	0	0	0	0	0	0	0	0	0	0
11	1.9	0	0	0	0	0	0	0	0	0	0	0
12	2.0	0	0	0	0	0	0	0	0	0	0	0
13	2.0	0	0	0	0	0	0	0	0	0	0	0
14	2.1	0	0	0	0	0	0	0	0	0	0	0
15	2.2	0	0	0	0	0	0	0	0	0	0	0
16	2.5	0	0	0	0	0	0	0	0	0	0	0
17	2.5	0	0	0	0	0	0	0	0	0	0	0
18	2.0	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	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	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	-----	0	0	0	0	0	0	0
30	0	0	0	0	-----	0	0	0	0	0	0	0
31	0	-----	0	0	-----	0	-----	0	-----	0	0	0
TOTAL	33.9	0	0	0	0	0	0	0	0	0	0	0
MEAN	1.09	0	0	0	0	0	0	0	0	0	0	0
MAX	2.5	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	67	0	0	0	0	0	0	0	0	0	0	0
CAL YEAR 2001	MAX	2.5	MIN	0	AC-FT	100						
WTR YEAR 2002	MAX	2.5	MIN	0	AC-FT	67						

# NIOBRARA RIVER BASIN

## HARRIS-NEECE CANAL from Niobrara River, 00062000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								10	7.8	2.7	2.7	4.5
2								10	7.7	0	2.7	4.5
3								9.1	8.3	1.7	2.7	4.5
4								8.4	9.9	5.8	2.6	3.8
5								8.6	11	5.6	2.7	3.6
6								9.2	11	5.5	3.2	4.1
7								9.1	11	5.6	3.4	4.1
8								8.7	10	5.6	2.9	4.1
9							0	8.5	9.4	5.4	2.9	5.3
10							0	8.4	9.0	4.3	2.8	5.5
11							0	8.5	8.9	3.8	2.8	6.2
12							0	8.7	8.4	4.0	3.3	1.9
13							0	9.7	8.3	3.9	3.8	0
14							0	10	8.1	3.7	3.9	0
15							0	10	7.9	3.4	4.2	0
16							0	10	7.8	3.2	3.5	0
17							0	10	7.8	3.0	2.9	0
18							0	10	7.5	2.8	2.9	0
19							0	9.9	7.1	2.8	2.7	
20							0	9.7	7.0	2.8	2.8	
21							0	1.6	6.7	1.9	3.1	
22							0	0	6.6	0	3.2	
23							0	2.2	7.0	0	3.1	
24							0	9.1	6.2	0	3.2	
25							0	9.0	6.2	0	3.8	
26								9.7	9.0	6.6	5.2	
27								13	8.7	6.3	4.9	
28								13	8.5	5.9	5.7	
29					-----			13	8.3	5.7	6.5	
30					-----			11	8.2	5.9	6.2	
31		-----			-----		-----	7.9	-----	3.2	5.2	-----
TOTAL							59.7	259.0	237.0	94.10	111.5	52.1
MEAN							2.71	8.35	7.90	3.04	3.60	2.89
MAX							13	10	11	5.8	6.5	6.2
MIN							0	0	5.7	0	2.6	0
AC-FT							118	514	470	187	221	103
CAL YEAR 2001	MAX	12	MIN	0	AC-FT	1,780						
WTR YEAR 2002	MAX	13	MIN	0	AC-FT	1,610						



# NIOBRARA RIVER BASIN

**LABELLE CANAL from Niobrara River, 00078000 - 2002**

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 2001 TO SEP 2002

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

-----  
 NO WATER DIVERTED IN 2002

CAL YEAR 2001	TOTAL	7	MEAN	.020	MAX	.92	MIN	0	AC-FT	14
WTR YEAR 2002	TOTAL	0	MEAN	0	MAX	0	MIN	0	AC-FT	0

# NIOBRARA RIVER BASIN

## METTLEN CANAL from Niobrara River, 00089000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	2.3	.71	3.2	1.8
2	0	0	0	0	0	0	0	0	2.4	.70	2.6	1.3
3	0	0	0	0	0	0	0	0	4.2	2.0	3.0	1.3
4	0	0	0	0	0	0	0	0	4.3	3.6	2.5	2.3
5	0	0	0	0	0	0	0	0	4.5	2.6	2.3	1.6
6	0	0	0	0	0	0	0	0	5.1	.80	1.1	1.5
7	0	0	0	0	0	0	0	0	4.8	.68	1.1	1.7
8	0	0	0	0	0	0	0	0	4.9	.27	1.0	1.8
9	0	0	0	0	0	0	0	0	4.6	.44	.98	2.2
10	0	0	0	0	0	0	0	0	4.0	1.2	1.6	1.8
11	0	0	0	0	0	0	0	0	3.3	1.8	1.5	1.1
12	0	0	0	0	0	0	0	0	3.0	1.7	1.4	2.7
13	0	0	0	0	0	0	0	0	1.5	1.3	1.4	4.2
14	0	0	0	0	0	0	0	0	0	.83	.99	4.1
15	0	0	0	0	0	0	0	0	0	2.2	1.3	4.0
16	0	0	0	0	0	0	0	0	0	0	.15	3.9
17	0	0	0	0	0	0	0	0	0	0	.78	3.8
18	0	0	0	0	0	0	0	1.0E	0	0	0	3.6
19	0	0	0	0	0	0	0	2.0E	0	0	0	3.8
20	0	0	0	0	0	0	0	3.0E	0	0	0	3.7
21	0	0	0	0	0	0	0	4.5E	.11	0	0	3.6
22	0	0	0	0	0	0	0	6.0	1.3	0	0	4.0
23	0	0	0	0	0	0	0	6.1	1.3	0	0	0
24	0	0	0	0	0	0	0	6.0	1.1	0	0	0
25	0	0	0	0	0	0	0	3.7	1.1	0	0	0
26	0	0	0	0	0	0	0	2.9	1.3	.29	0	0
27	0	0	0	0	0	0	0	2.8	1.3	2.5	0	0
28	0	0	0	0	0	0	0	3.7	1.3	4.0	.22	0
29	0	0	0	0	-----	0	0	3.2	.98	3.0	1.1	0
30	0	0	0	0	-----	0	0	2.8	.98	2.2	3.4	0
31	0	-----	0	0	-----	0	-----	2.5	-----	2.8	3.0	-----
TOTAL	0	0	0	0	0	0	0	50.2	59.67	35.62	34.62	59.8
MEAN	0	0	0	0	0	0	0	1.62	1.99	1.15	1.12	1.99
MAX	0	0	0	0	0	0	0	6.1	5.1	4.0	3.4	4.2
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	100	118	71	69	119
CAL YEAR 2001	MAX	6.6	MIN	0	AC-FT	458						
WTR YEAR 2002	MAX	6.1	MIN	0	AC-FT	476						

E indicates estimated discharge.

# NIOBRARA RIVER BASIN

**BENNETT-KAY CANAL from Niobrara River, 00013000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								2.3	.18	.58	1.3	0
2								2.6	1.0	.94	.92	0
3								2.6	.43	1.2	1.2	0
4								2.5	.92	1.8	1.1	0
5								1.8	0	1.5	1.3	0
6								.39	0	1.5	1.5	0
7								.51	0	1.4	1.3	0
8								2.6	0	1.3	1.2	0
9							0	2.5	.86	1.3	1.1	0
10							0	2.5	.97	1.2	1.1	0
11							0	2.5	0	.35	.40	0
12							0	.87	0	.86	.99	0
13							0	0	.74	.71	1.6	0
14							0	0	1.6	0	1.4	0
15							0	0	1.8	0	1.3	0
16							0	0	1.2	0	1.3	0
17							0	0	0	0	1.1	0
18							0	0	0	0	1.2	0
19							0	0	0	0	.61	0
20							0	0	0	0	0	0
21							0	.20	0	0	0	0
22							0	1.1	0	0	0	0
23							0	1.2	0	0	0	0
24							.72	1.8	0	0	0	0
25							2.6	1.0	0	0	0	0
26							2.0	1.0	0	0	0	0
27							1.4	1.0	.59	0	0	0
28							3.0	1.1	.87	0	.65	0
29					-----		2.8	1.6	.80	.94	1.0	0
30					-----		2.2	1.0	0	.98	1.3	0
31		-----			-----		-----	1.3	-----	.44	0	-----
TOTAL							14.72	35.97	11.96	17.00	24.87	0
MEAN							.67	1.16	.40	.55	.80	0
MAX							3.0	2.6	1.8	1.8	1.6	0
MIN							0	0	0	0	0	0
AC-FT							29	71	24	34	49	0
CAL YEAR 2001	MAX	2.7	MIN	0	AC-FT	234						
WTR YEAR 2002	MAX	3.0	MIN	0	AC-FT	207						

# NIOBRARA RIVER BASIN

**MOORE - KAY CANAL from Niobrara River, 00104000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	0	0	0	0	0	0	0	0	.42	0	1.9
2	3.8	0	0	0	0	0	0	0	0	0	0	1.8
3	3.7	0	0	0	0	0	0	0	.27	0	0	1.8
4	3.7	0	0	0	0	0	0	0	3.1	0	0	1.6
5	3.8	0	0	0	0	0	0	0	3.2	0	.12	1.4
6	3.7	0	0	0	0	0	0	0	3.2	.12	.70	1.3
7	3.6	0	0	0	0	0	0	0	3.3	1.1	.24	1.2
8	3.5	0	0	0	0	0	0	0	3.4	.70	.17	1.3
9	2.8	0	0	0	0	0	0	0	3.2	.80	.15	1.6
10	0	0	0	0	0	0	0	0	2.6	.65	.26	1.8
11	0	0	0	0	0	0	0	0	2.8	.38	.28	.80
12	0	0	0	0	0	0	0	0	2.7	0	.96	0
13	0	0	0	0	0	0	0	0	2.7	0	1.9	0
14	0	0	0	0	0	0	0	0	2.2	0	1.1	0
15	0	0	0	0	0	0	0	0	2.8	0	.71	0
16	0	0	0	0	0	0	.92	0	3.1	0	.68	0
17	0	0	0	0	0	0	.47	0	3.1	0	.19	0
18	0	0	0	0	0	0	.30	0	2.8	0	.54	0
19	0	0	0	0	0	0	.11	0	2.7	0	.44	0
20	0	0	0	0	0	0	.03	0	1.6	0	.62	0
21	0	0	0	0	0	0	.09	0	0	0	1.8	0
22	0	0	0	0	0	0	.09	0	0	0	1.4	0
23	0	0	0	0	0	0	.06	0	0	0	1.3	0
24	0	0	0	0	0	0	0	0	0	0	2.0	0
25	0	0	0	0	0	0	0	0	0	0	2.2	0
26	0	0	0	0	0	0	0	0	0	0	2.0	0
27	0	0	0	0	0	0	0	0	.47	0	1.5	0
28	0	0	0	0	0	0	0	0	1.2	0	1.9	0
29	0	0	0	0	-----	0	0	0	.82	0	2.3	0
30	0	0	0	0	-----	0	0	0	.82	0	1.8	0
31	0	-----	0	0	-----	0	-----	0	-----	0	1.3	-----
TOTAL	32.6	0	0	0	0	0	2.07	0	52.08	4.17	28.56	16.50
MEAN	1.05	0	0	0	0	0	.069	0	1.74	.13	.92	.55
MAX	4.0	0	0	0	0	0	.92	0	3.4	1.1	2.3	1.9
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	65	0	0	0	0	0	4.1	0	103	8.3	57	33
CAL YEAR 2001	MAX	4.5	MIN	0	AC-FT	314						
WTR YEAR 2002	MAX	4.0	MIN	0	AC-FT	270						

# NIOBRARA RIVER BASIN

**GEO. HITSHEW CANAL from Niobrara river, 00063000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								.61	0	0	0	0
2								.35	0	0	0	0
3								.10	0	0	0	0
4								.06	0	0	0	0
5								.10	0	0	0	0
6								.04	0	0	0	0
7								0	0	0	0	0
8								0	0	0	0	0
9								0	0	0	0	0
10								0	0	0	0	0
11								0	0	0	0	0
12								0	0	0	0	0
13								0	0	0	0	0
14								0	0	0	0	0
15								0	0	0	0	0
16								0	0	0	0	0
17								0	0	0	0	0
18							0	0	0	0	0	0
19							.06	0	0	0	0	0
20							.09	0	0	0	0	0
21							.28	0	0	0	0	0
22							.91	0	0	0	0	0
23							.82	0	0	0	0	0
24							.92	0	0	0	0	0
25							1.1	0	0	0	0	0
26							.66	0	0	0	0	0
27							.56	0	0	0	0	0
28							.58	0	0	0	0	0
29							.48	0	0	0	0	0
30							.08	0	0	0	0	0
31		-----			-----		-----	0	-----	0	0	-----
TOTAL							6.54	1.26	0	0	0	0
MEAN							.50	.041	0	0	0	0
MAX							1.1	.61	0	0	0	0
MIN							0	0	0	0	0	0
AC-FT							13	2.5	0	0	0	0
CAL YEAR 2001	MAX	3.5	MIN	0	AC-FT	29						
WTR YEAR 2002	MAX	1.1	MIN	0	AC-FT	15						

# NIOBRARA RIVER BASIN

## McLAUGHLIN CANAL from Niobrara River, 00086000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	3.4	0	0	0
2	0	0	0	0	0	0	0	0	3.2	.44	0	0
3	0	0	0	0	0	0	0	0	2.9	1.1	0	0
4	0	0	0	0	0	0	0	0	2.6	1.8	0	0
5	0	0	0	0	0	0	0	0	2.3	1.9	0	0
6	0	0	0	0	0	0	0	0	2.6	1.6	0	0
7	0	0	0	0	0	0	0	0	2.5	1.4	0	0
8	0	0	0	0	0	0	0	0	2.3	.50	0	0
9	0	0	0	0	0	0	0	0	2.4	0	0	0
10	0	0	0	0	0	0	0	0	2.1	0	0	0
11	0	0	0	0	0	0	0	0	.90	0	0	.26
12	0	0	0	0	0	0	0	0	1.8	0	0	2.7
13	0	0	0	0	0	0	0	0	1.8	.10	0	4.5
14	0	0	0	0	0	0	0	0	1.7	.15	0	4.1
15	0	0	0	0	0	0	0	0	1.8	0	0	3.4
16	0	0	0	0	0	0	0	0	1.8	0	0	3.0
17	0	0	0	0	0	0	0	0	2.2	0	0	2.6
18	0	0	0	0	0	0	0	0	2.2	0	0	2.9
19	0	0	0	0	0	0	0	0	2.2	0	0	3.0
20	0	0	0	0	0	0	0	0	2.1	0	0	3.3
21	0	0	0	0	0	0	0	0	2.6	.05	0	3.3
22	0	0	0	0	0	0	0	0	2.7	.76	0	3.5
23	0	0	0	0	0	0	0	0	2.8	.86	0	3.6
24	0	0	0	0	0	0	0	0	2.7	.77	0	3.4
25	0	0	0	0	0	0	0	0	2.5	.54	0	3.6
26	0	0	0	0	0	0	0	0	2.5	.54	0	4.7
27	0	0	0	0	0	0	0	.57	2.4	.56	0	4.9
28	0	0	0	0	0	0	0	4.0	1.9	.62	0	5.0
29	0	0	0	0	-----	0	0	5.1	.81	.72	0	5.0
30	0	0	0	0	-----	0	0	4.3	0	.38	0	5.1
31	0	-----	0	0	-----	0	-----	3.6	-----	0	0	-----
TOTAL	0	0	0	0	0	0	0	17.57	65.71	14.79	0	71.86
MEAN	0	0	0	0	0	0	0	.59	2.19	.48	0	2.40
MAX	0	0	0	0	0	0	0	5.1	3.4	1.9	0	5.1
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	35	130	29	0	143
CAL YEAR 2001	MAX	3.7	MIN	0	AC-FT	283						
WTR YEAR 2002	MAX	5.1	MIN	0	AC-FT	337						

# NIOBRARA RIVER BASIN

**EXCELSIOR CANAL from Niobrara River, 00046000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								1.2	0	0	0	0
2								1.4	0	0	0	0
3								1.2	0	0	0	0
4								1.1	0	0	0	0
5								.97	0	0	0	0
6								.94	0	0	0	0
7								1.2	0	0	0	0
8								1.3	0	0	0	0
9								1.1	0	0	0	0
10								.99	0	0	0	0
11								1.1	0	0	0	0
12								1.2	0	0	0	0
13								1.1	0	0	0	0
14								1.0	0	0	0	0
15								.99	0	0	0	0
16								.88	0	0	0	0
17								.77	0	0	0	0
18							0	.73	0	0	0	0
19							0	.74	0	0	0	0
20							0	.98	0	0	0	0
21							0	1.9	0	0	0	0
22							0	2.0	0	0	0	0
23							0	2.0	0	0	0	0
24							0	1.9	0	0	0	0
25							0	2.0	0	0	0	0
26							0	2.0	0	0	0	0
27							0	1.7	0	0	0	0
28							0	1.0	0	0	0	0
29					-----		0	.05	0	0	0	0
30					-----		.34	0	0	0	0	0
31		-----			-----		-----	0	-----	0	0	-----
TOTAL							0.34	35.44	0	0	0	0
MEAN							.026	1.14	0	0	0	0
MAX							.34	2.0	0	0	0	0
MIN							0	0	0	0	0	0
AC-FT							.7	70	0	0	0	0
CAL YEAR 2001	MAX	3.8	MIN	0	AC-FT	169						
WTR YEAR 2002	MAX	2.0	MIN	0	AC-FT	71						

# NIOBRARA RIVER BASIN

**HUGHES CANAL from Niobrara River, 00069000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								2.7	0	0	0	0
2								2.4	0	0	0	0
3								1.7	0	0	0	0
4								1.3	0	0	0	0
5								.85	0	0	0	0
6								.45	0	0	0	0
7								.24	0	0	0	0
8								.18	0	0	0	0
9								.11	0	0	0	0
10								.10	0	0	0	0
11								.26	0	0	0	0
12								.18	0	0	0	0
13								.10	0	0	0	0
14								.02	0	0	0	0
15								0	0	0	0	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	0
20							0	0	0	0	0	0
21							0	0	0	0	0	0
22							0	0	0	0	0	0
23							0	0	0	0	0	0
24							0	0	0	0	0	0
25							0	0	0	0	0	0
26							0	0	0	0	0	0
27							0	0	0	0	0	0
28							0	0	0	0	0	0
29					-----		2.0	0	0	0	0	0
30					-----		3.0	0	0	0	0	0
31		-----			-----		-----	0	-----	0	0	-----
TOTAL							5.0	10.59	0	0	0	0
MEAN							.42	.34	0	0	0	0
MAX							3.0	2.7	0	0	0	0
MIN							0	0	0	0	0	0
AC-FT							9.9	21	0	0	0	0
CAL YEAR 2001	MAX	.61	MIN	0	AC-FT	27						
WTR YEAR 2002	MAX	3.0	MIN	0	AC-FT	31						



# NIOBRARA RIVER BASIN

**PIONEER CANAL from Niobrara River, 00123000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	1.6	4.1	0	2.1	2.6
2	0	0	0	0	0	0	0	1.7	3.9	0	2.2	2.6
3	0	0	0	0	0	0	0	1.7	3.7	0	2.3	2.6
4	0	0	0	0	0	0	0	1.6	3.7	0	2.5	2.5
5	0	0	0	0	0	0	0	1.6	3.7	0	2.6	2.5
6	0	0	0	0	0	0	0	1.6	3.5	.14	2.7	2.5
7	0	0	0	0	0	0	0	1.6	3.0	1.4	2.7	2.6
8	0	0	0	0	0	0	0	.81	2.8	2.1	2.5	2.6
9	0	0	0	0	0	0	0	0	2.6	2.1	2.5	2.8
10	0	0	0	0	0	0	0	0	2.4	2.1	2.5	2.8
11	0	0	0	0	0	0	0	0	2.3	2.0	2.5	2.3
12	0	0	0	0	0	0	0	0	2.2	2.0	2.5	0
13	0	0	0	0	0	0	0	.95	2.1	1.9	2.5	0
14	0	0	0	0	0	0	0	4.0	2.3	1.8	2.4	0
15	0	0	0	0	0	0	0	4.0	2.4	1.7	2.4	0
16	0	0	0	0	0	0	0	4.2	2.5	1.7	2.4	0
17	0	0	0	0	0	0	0	4.3	2.6	1.7	2.3	0
18	0	0	0	0	0	0	0	4.3	2.8	1.7	2.4	0
19	0	0	0	0	0	0	0	4.4	2.8	1.7	2.4	0
20	0	0	0	0	0	0	0	4.4	2.7	1.8	2.5	0
21	0	0	0	0	0	0	0	4.5	2.7	1.9	2.6	0
22	0	0	0	0	0	0	0	4.5	1.2	2.0	2.6	0
23	0	0	0	0	0	0	0	4.5	0	1.9	2.5	0
24	0	0	0	0	0	0	0	4.7	0	1.7	2.7	0
25	0	0	0	0	0	0	0	4.6	0	1.8	2.6	0
26	0	0	0	0	0	0	0	4.7	0	2.0	2.6	0
27	0	0	0	0	0	0	.15	4.7	0	2.0	2.6	0
28	0	0	0	0	0	0	1.5	4.6	0	2.0	2.6	0
29	0	0	0	0	-----	0	1.6	4.5	0	2.1	2.6	0
30	0	0	0	0	-----	0	1.5	4.4	0	2.1	2.6	0
31	0	-----	0	0	-----	0	-----	4.2	-----	2.1	2.6	-----
TOTAL	0	0	0	0	0	0	4.75	92.66	62.0	47.44	77.5	28.4
MEAN	0	0	0	0	0	0	.16	2.99	2.07	1.53	2.50	.95
MAX	0	0	0	0	0	0	1.6	4.7	4.1	2.1	2.7	2.8
MIN	0	0	0	0	0	0	0	0	0	0	2.1	0
AC-FT	0	0	0	0	0	0	9.4	184	123	94	154	56
CAL YEAR 2001	MAX	5.4	MIN	0	AC-FT	223						
WTR YEAR 2002	MAX	4.7	MIN	0	AC-FT	620						

# NIOBRARA RIVER BASIN

## NIOBRARA RIVER above Box Butte Reservoir, 06454500 - 2002

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 53 cubic feet per second March 29, gage height 3.76 feet; maximum gage height 4.67 feet March 1 due to backwater from ice conditions; minimum daily discharge 4.1 cubic feet per second July 31 - August 2.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	19	24E	19E	21E	21E	45	31	9.6	8.5	4.1	6.4
2	12	19	23E	20E	21E	22E	45	30	9.8	8.5	4.1	6.8
3	11	19	23E	21E	22E	24E	44	28	10	8.5	4.3	6.7
4	12	19	23	22	24E	26E	43	24	11	8.7	4.7	6.8
5	13	20	23	23	25	28	43	23	11	8.5	5.1	6.7
6	14	20	22	23	25	27	42	21	11	8.4	5.6	6.6
7	15	22	23	23	25	28	41	21	10	6.6	5.3	6.5
8	15	22	24	24	26	28	41	25	10	6.4	5.5	7.0
9	15	22	23	24	25E	26E	41	26	10	6.3	5.5	8.7
10	16	22	23	24	27E	24E	41	24	9.8	6.4	5.6	8.5
11	16	22	24	24	28	22	41	24	9.1	6.4	5.7	8.4
12	17	22	22E	23	25	25	41	24	9.2	6.5	5.9	13
13	17	21E	20E	24	26E	31	40	24	9.1	6.4	6.7	15
14	17	19E	17E	25	27	36	38	17	8.9	6.3	6.7	12
15	18	18E	23	23	26	35	37	20	9.1	6.2	6.6	11
16	18	18E	23	20E	26	29	36	19	9.0	6.1	6.5	15
17	19	19E	24	20E	26	30	35	19	8.9	6.2	6.1	14
18	18	20E	24	21E	26	26	33	19	8.8	6.1	6.2	12
19	19	21E	24	21E	26	32	32	17	8.9	5.8	6.3	11
20	19	19E	24	21E	28	41	31	17	8.2	5.8	6.5	12
21	19	19E	23	22E	31	37	32	16	8.6	6.2	6.9	11
22	19	20E	20E	22	31	39	32	15	9.0	6.5	7.4	11
23	19	20E	22E	21	32	35	30	14	8.8	6.3	7.0	11
24	18	20E	21E	21E	28E	36	28	14	10	5.6	8.1	11
25	18	21E	20E	22E	26E	40	29	15	11	5.0	7.8	11
26	18	22E	20	23	24E	35	29	14	9.9	5.0	7.5	11
27	18	19E	20	23	22E	37	29	14	9.4	4.9	7.2	11
28	19	19E	19E	23	21E	42	21	14	8.9	4.8	7.4	11
29	19	19E	19E	21E	-----	47	26	13	8.6	4.6	7.7	11
30	19	22E	19E	21E	-----	45	25	11	8.5	4.5	7.6	11
31	19	-----	19E	20E	-----	45	-----	10	-----	4.1	6.7	-----
TOTAL	518	604	678	684	720	999	1,071	603	284.1	196.1	194.3	304.1
MEAN	16.7	20.1	21.9	22.1	25.7	32.2	35.7	19.5	9.47	6.33	6.27	10.1
MAX	19	22	24	25	32	47	45	31	11	8.7	8.1	15
MIN	11	18	17	19	21	21	21	10	8.2	4.1	4.1	6.4
AC-FT	1,030	1,200	1,340	1,360	1,430	1,980	2,120	1,200	564	389	385	603
CAL YEAR 2001	TOTAL	8,181.00	MEAN	22.4	MAX	48	MIN	7.9	AC-FT	16,230		
WTR YEAR 2002	TOTAL	6,855.60	MEAN	18.8	MAX	47	MIN	4.1	AC-FT	13,600		

E indicates estimated discharge.

# NIOBRARA RIVER BASIN

**BOX BUTTE RESERVOIR from Niobrara River, 06455000 - 2002**

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

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		9,086			12,725	13,838	15,610	17,182		14,225	6,705	
2				11,621								
3									17,471			
4	8,032											
5												
6												
7											5,759	
8												
9												
10										11,996		
11												
12						14,288						
13									17,344			
14											4,561	
15		9,617			13,266			17,483				
16												
17	8,562									9,694		
18							16,670					
19												
20									17,159			
21												3,474
22				12,377								
23												
24										8,173		
25												
26												
27						15,222			17,056			
28												
29		10,166			-----							
30					-----							
31		-----			-----		-----		-----			-----

# NIOBRARA RIVER BASIN

## NIOBRARA RIVER below Box Butte Reservoir, 06455500 - 2002

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 170 cubic feet per second June 30, gage height 4.32 feet; minimum daily discharge 0.52 cubic feet per second September 2-7.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	.74E	.67	.64	.72E	.70	.76	.92	.73	161	107	.54
2	.64	.70	.67	.64	.70	.70	.76	.86	.73	160	108	.52
3	.64	.67	.67	.67	.70	.70	.76	.82	.74	160	101	.52
4	.70	.67	.67	.70	.67	.70	.76	.79	.76	149	94	.52
5	.73	.67	.67	.70	.67	.70	.76	.79	.76	128	87	.52
6	.70	.67	.67	.70	.67	.70	.76	.76	.73	120	78	.52
7	.67	.64	.67	.70	.67	.70	.79	.79	.73	117	76	.52
8	.67	.67	.67	.73	.66	.70	.79	.76	.73	114	77	.54
9	.67	.67	.67	.73	.67	.70	.79	.75	.73	119	72	.75
10	.64	.67	.67	.70	.67	.70	.79	.73	.70	137	68	.64
11	.64	.64	.67	.70	.67	.70	.79	.79	.70	154	75	.62
12	.64	.64	.67	.70	.67	.70	.79	.76	.70	150	85	.91
13	.64	.64	.67	.73	.67	.73	.79	.76	.70	134	89	.84
14	.62	.64	.67	.73	.67	.76	.79	.76	.70	134	87	.69
15	.62	.64	.67	.73	.69	.76	.79	.73	.70	134	87	.64
16	.64	.64	.67	.73	.70	.76	.79	.73	.70	134	91	.59
17	.64	.64	.67	.73	.70	.76	.76	.76	.70	134	91	.57
18	.64E	.64	.67	.73	.70	.76	.76	.76	.70	134	91	.57
19	.64E	.64	.67	.73	.70	.76	.76	.76	.70	131	85	.54
20	.64E	.64	.67	.73	.70	.76	.79	.76	.70	126	82	.54
21	.64E	.64	.67	.73E	.70	.76	.79	.76	.73	119	44	.54
22	.62E	.64	.64E	.73E	.70	.76	.79	.76	.76	106	.63	.57
23	.60E	.64	.70E	.73E	.70	.76	.83	.79	.79	107	.60	.57
24	.62E	.64	.67	.73E	.70	.76	.92	.89	.79	101	.62	.57
25	.64E	.64	.64	.73E	.70	.76	.78	.92	.79	90	.57	.57
26	.66E	.67	.64	.73E	.70	.79	.82	.86	.70	84	.54	.57
27	.66E	.67	.64	.73E	.70	.79	.79	.73	.88	76	.56	.57
28	.66E	.67	.64	.73E	.70	.79	.79	.73	106	76	.60	.57
29	.66E	.67	.64	.72E	-----	.79	.79	.73	137	82	.59	.57
30	.66E	.67	.64	.72E	-----	.76	.79	.73	148	91	.58	.54
31	.80E	-----	.64	.72E	-----	.76	-----	.73	-----	97	.53	-----
TOTAL	20.28	19.72	20.56	22.15	19.27	22.93	23.62	24.17	567.20	3,759	1,780.82	17.74
MEAN	.65	.66	.66	.71	.69	.74	.79	.78	18.9	121	57.4	.59
MAX	.80	.74	.70	.73	.72	.79	.92	.92	148	161	108	.91
MIN	.60	.64	.64	.64	.66	.70	.76	.73	.70	76	.53	.52
AC-FT	40	39	41	44	38	45	47	48	1,130	7,460	3,530	35
CAL YEAR 2001	TOTAL	6,464.95	MEAN	17.7	MAX	146	MIN	.60	AC-FT	12,820		
WTR YEAR 2002	TOTAL	6,297.46	MEAN	17.3	MAX	161	MIN	.52	AC-FT	12,490		

E indicates estimated discharge.

# NIOBRARA RIVER BASIN

## MONTAGUE CANAL from Niobrara River, 00102000 - 2002

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 2001 TO SEP 2002

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

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NO WATER DIVERTED IN 2002

CAL YEAR 2001	MAX	0	MIN	0	AC-FT	0						
WTR YEAR 2002	MAX	0	MIN	0	AC-FT	0						

# NIOBRARA RIVER BASIN

## LICHTE CANAL from Niobrara River, 00081000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	3.7	0	0
2	0	0	0	0	0	0	0	0	0	3.7	0	0
3	0	0	0	0	0	0	0	0	0	3.7	0	0
4	0	0	0	0	0	0	0	0	0	3.8	0	0
5	0	0	0	0	0	0	0	0	0	3.7	0	0
6	0	0	0	0	0	0	0	0	0	3.7	0	0
7	0	0	0	0	0	0	0	0	0	3.7	0	0
8	0	0	0	0	0	0	0	0	0	3.8	0	0
9	0	0	0	0	0	0	0	0	0	3.6	0	0
10	0	0	0	0	0	0	0	0	0	3.6	0	0
11	0	0	0	0	0	0	0	0	0	3.6	0	0
12	0	0	0	0	0	0	0	0	0	3.6	0	0
13	0	0	0	0	0	0	0	0	0	3.6	0	0
14	0	0	0	0	0	0	0	0	0	3.6	0	0
15	0	0	0	0	0	0	0	0	0	3.6	0	0
16	0	0	0	0	0	0	0	0	0	3.6	0	0
17	0	0	0	0	0	0	0	0	0	3.4	0	0
18	0	0	0	0	0	0	0	0	0	3.3	0	0
19	0	0	0	0	0	0	0	0	0	3.3	0	0
20	0	0	0	0	0	0	0	0	0	3.3	0	0
21	0	0	0	0	0	0	0	0	0	1.5	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	2.6E	0	0	0	0
24	0	0	0	0	0	0	0	3.7E	0	0	0	0
25	0	0	0	0	0	0	0	3.7E	0	0	0	0
26	0	0	0	0	0	0	0	3.7E	0	0	0	0
27	0	0	0	0	0	0	0	3.7E	0	0	0	0
28	0	0	0	0	0	0	0	3.7E	.50	0	0	0
29	0	0	0	0	-----	0	0	3.7E	3.2	0	0	0
30	0	0	0	0	-----	0	0	1.2E	3.6	0	0	0
31	0	-----	0	0	-----	0	-----	0	-----	0	0	0
TOTAL	0	0	0	0	0	0	0	26.0	7.30	73.4	0	0
MEAN	0	0	0	0	0	0	0	.87	.24	2.37	0	0
MAX	0	0	0	0	0	0	0	3.7	3.6	3.8	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	52	14	146	0	0
CAL YEAR 2001	MAX	3.2	MIN	0	AC-FT	172						
WTR YEAR 2002	MAX	3.8	MIN	0	AC-FT	212						

E indicates estimated discharge.

# NIOBRARA RIVER BASIN

**MIRAGE FLATS CANAL from Niobrara River, 00100000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										150	109	
2										144	113	
3										150	111	
4										153	104	
5										139	91	
6										134	82	
7										133	77	
8										128	83	
9										130	81	
10										134	76	
11										146	79	
12										144	93	
13										137	95	
14										139	94	
15										139	92	
16										136	95	
17										139	98	
18										131	99	
19										137	96	
20										130	85	
21										127	66	
22										111		
23										115		
24										116		
25										102		
26									38	87		
27									92	77		
28									103	76		
29					-----				141	79		
30					-----				137	91		
31		-----			-----		-----		-----	99		-----
TOTAL									511	3,853	1,919	
MEAN									102	124	91.4	
MAX									141	153	113	
MIN									38	76	66	
AC-FT									1,010	7,640	3,810	
CAL YEAR 2001	MAX	172	MIN	0	AC-FT	12,570						
WTR YEAR 2002	MAX	153	MIN	38	AC-FT	12,460						

# NIOBRARA RIVER BASIN

**POTMESIL CANAL from Niobrara River, 00124000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	7.3	6.4	6.3	5.8
2	0	0	0	0	0	0	0	0	7.2	6.4	5.1	5.7
3	0	0	0	0	0	0	0	0	6.7	6.1	4.4	5.8
4	0	0	0	0	0	0	0	0	5.2	5.4	3.9	5.8
5	0	0	0	0	0	0	0	0	0	4.1	4.4	6.0
6	0	0	0	0	0	0	0	0	.84	2.8	4.4	6.0
7	0	0	0	0	0	0	0	0	6.3	3.2	4.4	6.0
8	0	0	0	0	0	0	0	0	6.1	3.2	5.0	6.0
9	0	0	0	0	0	0	0	0	6.1	3.4	4.3	2.7
10	0	0	0	0	0	0	0	0	5.5	5.1	4.4	0
11	0	0	0	0	0	0	0	0	4.7	5.6	4.7	0
12	0	0	0	0	0	0	0	0	5.0	4.8	4.8	0
13	0	0	0	0	0	0	0	0	5.6	4.4	4.8	0
14	0	0	0	0	0	0	0	0	5.8	4.3	4.8	0
15	0	0	0	0	0	0	0	2.9	6.1	4.3	4.5	0
16	0	0	0	0	0	0	0	5.1	5.1	4.3	4.3	0
17	0	0	0	0	0	0	0	5.0	5.1	4.4	4.4	0
18	0	0	0	0	0	0	0	5.3	6.4	4.4	4.3	0
19	0	0	0	0	0	0	0	5.8	6.6	4.4	4.4	0
20	0	0	0	0	0	0	0	6.0	6.3	3.7	4.0	0
21	0	0	0	0	0	0	0	5.8	5.6	3.8	4.0	0
22	0	0	0	0	0	0	0	6.1	5.4	3.3	6.1	0
23	0	0	0	0	0	0	0	4.7	5.4	3.8	6.0	0
24	0	0	0	0	0	0	0	5.3	6.3	4.0	6.0	0
25	0	0	0	0	0	0	0	5.1	6.6	2.9	6.0	0
26	0	0	0	0	0	0	0	5.3	7.5	4.4	5.8	0
27	0	0	0	0	0	0	0	5.5	6.9	4.8	5.7	0
28	0	0	0	0	0	0	0	5.5	5.5	4.8	5.8	0
29	0	0	0	0	-----	0	0	4.7	5.8	4.9	6.0	0
30	0	0	0	0	-----	0	0	6.5	6.1	6.6	5.8	0
31	0	-----	0	0	-----	0	-----	6.3	-----	6.4	5.8	-----
TOTAL	0	0	0	0	0	0	0	90.9	169.04	140.4	154.6	49.8
MEAN	0	0	0	0	0	0	0	2.93	5.63	4.53	4.99	1.66
MAX	0	0	0	0	0	0	0	6.5	7.5	6.6	6.3	6.0
MIN	0	0	0	0	0	0	0	0	0	2.8	3.9	0
AC-FT	0	0	0	0	0	0	0	180	335	278	307	99
CAL YEAR 2001	MAX	8.1	MIN	0	AC-FT	915						
WTR YEAR 2002	MAX	7.5	MIN	0	AC-FT	1,200						



# NIOBRARA RIVER BASIN

**SNAKE RIVER at Doughboy, 06459175 - 2002**

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 367 cubic feet per second June 10, 1991, gage height 3.88 feet, present datum; 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 378 cubic feet per second August 27, gage height 1.98 feet; minimum daily discharge 149 cubic feet per second August 2.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	174	173	164	178	170E	193	200	171	160	151	165
2	164	171	170	163	188	160E	184	198	165	160	149	162
3	163	169	178	168	186	155E	174	225	167	161	152	157
4	172	171	187	177	186	171	177	218	173	162	156	154
5	177	171	186	179	188	182	183	187	177	158	165	151
6	171	174	180	176	188	187	187	180	176	167	170	155
7	170	173	179	179	192	179	188	174	168	174	164	151
8	169	167	189	186	196	181	182	172	176	173	160	150
9	171	164	185	191	197	156	178	165	178	166	161	161
10	173	168	185	186	185	164	181	167	170	160	161	166
11	170	172	182	186	187	174	186	168	165	160	159	165
12	163	174	176	181	195	195	188	165	162	162	155	188
13	165	176	176	181	195	206	187	168	160	162	154	221
14	160	172	170	172	189	205	183	170	158	160	156	194
15	157	179	178	172	187	182	185	169	163	156	159	179
16	160	178	176	172	194	187	182	169	167	152	157	171
17	162	178	170	175	201	191	173	167	165	154	150	168
18	166	178	177	174	204	185	169	168	162	154	152	165
19	166	173	174	170	206	183	162	162	163	155	153	161
20	165	177	174	176	202	181	163	163	161	153	156	163
21	167	177	178	180	204	171	167	160	161	159	158	164
22	168	181	170	183	205	174	173	159	161	162	158	159
23	168	183	159	184	205	185	175	158	161	156	184	160
24	161	199	171	180	199	184	169	159	168	155	187	163
25	160	192	164	179	180E	177	164	159	196	159	170	162
26	165	180	164	185	165E	183	164	163	177	159	185	160
27	169	187	164	194	170E	193	183	172	171	157	238	163
28	170	187	166	183	180	205	200	190	170	157	187	160
29	171	190	167	179	-----	216	199	232	161	158	174	159
30	169	173	167	179	-----	209	205	209	156	156	174	160
31	171	-----	162	174	-----	197	-----	183	-----	156	173	-----
TOTAL	5,168	5,308	5,397	5,528	5,352	5,688	5,404	5,499	5,029	4,943	5,128	4,957
MEAN	167	177	174	178	191	183	180	177	168	159	165	165
MAX	177	199	189	194	206	216	205	232	196	174	238	221
MIN	157	164	159	163	165	155	162	158	156	152	149	150
AC-FT	10,250	10,530	10,700	10,960	10,620	11,280	10,720	10,910	9,980	9,800	10,170	9,830

CAL YEAR 2001	TOTAL	64,052	MEAN	175	MAX	332	MIN	139	AC-FT	127,000
WTR YEAR 2002	TOTAL	63,401	MEAN	174	MAX	238	MIN	149	AC-FT	125,800

E indicates estimated discharge.

# NIOBRARA RIVER BASIN

**MERRITT RESERVOIR from Snake River, 06459300 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47,010	61,420	68,830	68,020	69,110	68,830	69,670	74,490	74,490	68,020	42,380	28,800
2	47,620	61,680	68,560	68,020	69,110	68,830	69,670	74,490	74,490	67,200	41,560	28,930
3	48,040	62,190	68,830	68,020	69,110	68,830	69,670	74,490	74,490	66,120	40,750	28,930
4	48,450	62,710	68,830	68,020	69,110	68,830	69,670	74,490	74,200	65,320	40,040	28,800
5	49,070	63,220	68,830	68,020	69,110	68,830	69,670	74,490	74,200	64,270	39,180	28,670
6	49,710	63,480	68,830	68,020	68,830	68,830	69,670	74,490	74,200	63,480	38,490	28,420
7	50,360	63,740	68,830	68,290	69,110	68,830	69,950	74,490	74,200	62,960	37,830	28,420
8	50,790	64,270	68,830	68,290	68,830	68,830	70,230	74,490	74,200	62,190	37,000	28,420
9	51,220	64,800	68,830	68,560	68,830	69,110	70,230	74,200	74,200	61,420	36,340	28,540
10	51,660	65,060	68,830	68,560	68,830	68,830	70,780	74,200	74,200	60,660	35,870	28,930
11	52,110	65,320	68,830	68,560	68,830	68,830	71,340	73,910	74,200	59,910	35,560	29,200
12	52,560	65,590	68,830	68,830	68,830	69,110	71,620	73,910	74,200	58,920	35,080	29,600
13	53,230	65,850	68,830	68,830	68,830	69,110	72,190	73,910	73,920	58,180	34,470	30,140
14	53,580	66,120	68,830	68,830	68,830	69,390	72,480	73,630	73,920	57,450	34,010	30,690
15	54,140	66,390	68,830	68,830	68,830	69,390	72,770	73,630	73,920	56,730	33,260	31,100
16	54,610	66,390	68,830	69,110	68,830	69,390	73,050	73,630	73,630	55,770	32,820	31,660
17	55,070	66,390	68,830	69,110	68,830	69,670	73,340	73,630	73,630	55,070	32,090	32,240
18	55,540	66,930	68,830	69,110	68,830	69,670	73,340	73,630	73,630	54,140	31,520	32,680
19	56,250	67,200	68,830	69,110	68,830	69,670	73,340	73,630	73,630	53,530	30,960	33,110
20	56,490	67,740	68,830	69,110	68,830	69,670	73,340	73,910	73,630	52,330	30,540	33,710
21	56,970	68,020	68,830	69,390	68,830	69,670	73,630	73,910	73,340	51,660	30,000	34,320
22	57,690	68,290	68,830	69,390	68,830	69,670	73,630	73,910	73,050	50,790	29,600	34,770
23	57,940	68,560	68,830	69,390	68,830	69,670	73,910	73,910	72,770	49,930	29,200	35,240
24	58,420	68,560	68,560	69,390	68,830	69,670	73,910	73,910	72,770	49,070	28,930	35,710
25	58,660	68,560	68,560	69,110	69,110	69,390	73,910	73,910	72,480	48,240	28,930	36,190
26	58,920	68,830	68,560	69,110	69,110	69,390	73,910	73,910	72,190	47,420	28,800	36,840
27	59,160	68,830	68,560	69,110	68,830	69,670	74,200	74,200	71,620	46,610	28,930	37,330
28	59,910	68,830	68,560	69,110	68,830	69,670	74,490	74,490	70,780	45,820	28,930	37,820
29	60,160	68,830	68,290	69,110	-----	69,670	74,490	74,490	69,950	44,830	28,930	38,490
30	60,660	68,830	68,290	68,830	-----	69,670	74,490	74,780	69,110	44,070	28,800	39,000
31	61,170	-----	68,290	68,830	-----	69,670	-----	74,780	-----	43,300	28,670	-----
MAX	61,170	68,830	68,830	69,390	69,110	69,670	74,490	74,780	74,490	68,020	42,380	39,000
MIN	47,010	61,420	68,290	68,020	68,830	68,830	69,670	73,630	69,110	43,300	28,670	28,420
CHANGE	14,760	7,660	-540	540	0	840	4,820	290	-5,670	-25,810	-14,630	10,330
CAL YEAR 2001			MEAN	63,367	MAX	75,100	MIN	34,770				
WTR YEAR 2002			MEAN	61,385	MAX	74,780	MIN	28,420				

# NIOBRARA RIVER BASIN

**AINSWORTH CANAL from Merritt Reservoir, 00001000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	110	604	636	224
2								0	122	621	617	244
3								0	128	628	610	286
4								0	117	629	617	337
5								0	119	629	620	336
6								0	125	634	596	310
7								0	117	633	592	231
8								0	108	611	589	228
9								0	107	573	532	183
10								0	123	588	404	141
11								0	145	620	440	130
12								0	165	617	488	107
13								19	177	587	499	72
14								125	157	602	532	67
15								99	157	629	546	60
16								101	157	632	541	0
17								81	157	632	494	0
18								71	166	630	512	0
19								71	182	630	543	0
20								73	199	628	564	0
21								74	221	630	553	0
22								74	236	629	473	0
23								73	256	630	435	0
24								71	295	636	351	0
25								72	351	639	347	0
26								72	407	634	328	0
27								72	455	611	299	0
28								72	499	630	333	0
29					-----			80	532	637	372	0
30					-----			99	567	637	326	0
31		-----			-----		-----	110	-----	637	224	-----
TOTAL								1,509	6,657	19,307	15,013	2,956
MEAN								48.7	222	623	484	98.5
MAX								125	567	639	636	337
MIN								0	107	573	224	0
AC-FT								2,990	13,200	38,300	29,780	5,860
CAL YEAR 2001	MAX	627	MIN	0	AC-FT	75,390						
WTR YEAR 2002	MAX	639	MIN	0	AC-FT	90,130						

# NIOBRARA RIVER BASIN

## SNAKE RIVER near Burge, 06459500 - 2002

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. Natural flow affected since February 1964 by storage in Merritt Reservoir (station 06459300) 2.1 miles upstream. Records are good.

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 366 cubic feet per second May 1, gage height 2.24 feet; minimum daily discharge 12 cubic feet per second August 25, 27-30, and September 1-8.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	60	268	250	264	251	273	354	189	60	14	12
2	14	60	268	252	264	253	276	356	178	60	14	12
3	14	59	268	252	266	256	276	355	169	40	14	12
4	15	59	268	233	268	256	276	346	121	14	14	12
5	14	59	268	222	268	253	255	344	110	13	14	12
6	14	59	268	222	268	252	145	333	113	14	14	12
7	14	59	268	219	268	252	114	325	109	14	14	12
8	14	59	268	219	268	252	114	325	113	14	14	12
9	15	59	268	220	264	252	116	314	120	14	13	14
10	67	59	268	222	264	252	117	311	110	14	13	14
11	15	59	268	222	266	252	117	276	103	14	13	14
12	14	59	268	222	268	252	115	258	94	14	14	16
13	14	59	268	222	267	252	114	196	85	14	14	15
14	14	59	268	222	264	257	115	136	81	14	14	14
15	14	59	268	222	264	260	132	131	80	14	14	14
16	15	59	268	221	264	261	178	129	78	14	13	14
17	15	59	268	219	264	271	181	132	76	14	13	14
18	14	60	268	224	263	276	179	136	74	14	14	14
19	14	60	268	233	260	276	181	137	74	14	13	14
20	14	60	268	234	256	272	181	140	71	14	14	14
21	14	94	268	238	252	272	186	168	73	14	14	14
22	29	154	268	251	252	277	196	154	73	15	13	15
23	59	210	268	266	252	281	198	142	67	14	14	14
24	59	253	268	264	253	281	202	143	66	14	13	14
25	59	275	268	264	252	281	201	88	65	14	12	14
26	59	277	268	264	252	279	207	102	65	14	14	15
27	59	272	268	264	252	273	224	113	61	14	12	16
28	59	274	268	267	252	275	280	142	60	14	12	17
29	59	275	257	268	-----	272	333	151	60	14	12	19
30	59	271	248	266	-----	272	346	202	60	14	12	21
31	59	-----	248	264	-----	272	-----	260	-----	14	13	-----
TOTAL	912	3,540	8,257	7,428	7,315	8,193	5,828	6,699	2,798	552	415	426
MEAN	29.4	118	266	240	261	264	194	216	93.3	17.8	13.4	14.2
MAX	67	277	268	268	268	281	346	356	189	60	14	21
MIN	14	59	248	219	252	251	114	88	60	13	12	12
AC-FT	1,810	7,020	16,380	14,730	14,510	16,250	11,560	13,290	5,550	1,090	823	845
CAL YEAR 2001	TOTAL	60,533	MEAN	166	MAX	375	MIN	13	AC-FT	120,100		
WTR YEAR 2002	TOTAL	52,363	MEAN	143	MAX	356	MIN	12	AC-FT	103,900		

# NIOBRARA RIVER BASIN

**KEYA PAHA RIVER near Naper, 06464900 - 2002**

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 670 cubic feet per second March 31, gage height 7.03 feet; maximum gage height 7.23 feet March 22, due to backwater from ice; minimum daily discharge 9.5 cubic feet per second August 3.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	109	120E	76E	130E	110E	595	442	110	35	9.8	44
2	73	111	140E	74E	130E	100E	482	439	105	32	10	40
3	78	111	160E	80E	140E	110E	400	370E	100	34	9.5	39
4	81	112	200E	90E	145E	118E	363	420E	98	30	13	36
5	88	112	230E	96E	140E	130E	320	320E	93	28	15	37
6	89	114	250E	100E	135E	124E	305	260E	87	27	19	37
7	89	116	300E	110E	140E	120E	311	225E	81	28	17	30
8	91	114	275	110E	130E	120E	318	190E	97	31	15	24
9	94	113	262	104E	135E	110E	311	185E	87	30	18	23
10	109	113	262	98E	120E	100E	291	180E	82	27	23	26
11	100	114	238	120E	124E	120E	305	175E	81	27	31	31
12	99	117	227	112E	120E	150E	290	175E	79	31	33	39
13	108	118	207	114E	130E	200E	282	170E	74	33	27	93
14	105	117	211	120E	118E	190E	267	160E	71	29	24	89
15	102	119	222	114E	110E	180E	261	165E	69	26	21	69
16	101	116	202	110E	120E	190E	241	160E	68	23	20	57
17	103	118	185	114E	120E	170E	221	160E	69	20	18	52
18	104	123	184	112E	110E	175E	210	160E	69	18	18	47
19	102	122	184	110E	120E	185E	200	155E	64	16	19	47
20	97	121	158	112E	130E	180E	187	155E	62	14	19	46
21	97	125	167	116E	130E	190E	191	155E	59	12	23	46
22	103	132	130E	120E	110E	200E	185	156	53	13	35	46
23	107	137	110E	110E	120E	216	186	149	47	16	41	45
24	109	162	90E	140E	110E	237	183	144	47	16	42	44
25	107	177	92E	160E	100E	220	178	135	44	15	60	44
26	106	130E	100E	140E	110E	209	173	127	41	15	65	45
27	108	90E	90E	136E	120E	263	216	130	43	15	59	46
28	106	80E	82E	130E	110E	406	315	134	43	14	50	44
29	109	84E	84E	126E	-----	520	378	125	39	13	49	46
30	109	100E	82E	120E	-----	560	370	125	36	11	58	46
31	109	-----	76E	122E	-----	640	-----	116	-----	11	49	-----
TOTAL	3,058	3,527	5,320	3,496	3,457	6,543	8,535	6,162	2,098	690	910.3	1,358
MEAN	98.6	118	172	113	123	211	285	199	69.9	22.3	29.4	45.3
MAX	109	177	300	160	145	640	595	442	110	35	65	93
MIN	73	80	76	74	100	100	173	116	36	11	9.5	23
AC-FT	6,070	7,000	10,550	6,930	6,860	12,980	16,930	12,220	4,160	1,370	1,810	2,690
CAL YEAR 2001 TOTAL		109,700.0	MEAN	301	MAX	2,940	MIN	47	AC-FT	217,600		
WTR YEAR 2002 TOTAL		45,154.3	MEAN	124	MAX	640	MIN	9.5	AC-FT	89,560		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

**FORT LARAMIE CANAL from North Platte River, 00052000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	1,510	1,370	0
2	0	0	0	0	0	0	0	0	0	1,510	1,400	0
3	0	0	0	0	0	0	0	0	0	1,500	1,430	0
4	0	0	0	0	0	0	0	0	0	1,490	1,430	0
5	0	0	0	0	0	0	0	0	0	1,480	1,420	0
6	0	0	0	0	0	0	0	0	0	1,480	1,400	0
7	0	0	0	0	0	0	0	0	0	1,490	1,380	0
8	0	0	0	0	0	0	0	0	0	1,500	1,360	0
9	0	0	0	0	0	0	0	0	0	1,500	1,350	0
10	0	0	0	0	0	0	0	0	0	1,500	1,350	0
11	0	0	0	0	0	0	0	0	0	1,500	1,350	0
12	0	0	0	0	0	0	0	0	0	1,490	1,360	0
13	0	0	0	0	0	0	0	0	0	1,490	1,380	0
14	0	0	0	0	0	0	0	0	0	1,500	1,380	0
15	0	0	0	0	0	0	0	0	0	1,490	1,370	0
16	0	0	0	0	0	0	0	0	0	1,490	1,370	0
17	0	0	0	0	0	0	0	0	0	1,480	1,390	0
18	0	0	0	0	0	0	0	0	307	1,480	1,390	0
19	0	0	0	0	0	0	0	0	846	1,480	1,370	0
20	0	0	0	0	0	0	0	0	973	1,470	1,350	0
21	0	0	0	0	0	0	0	0	1,020	1,460	1,350	0
22	0	0	0	0	0	0	0	0	1,030	1,440	1,350	0
23	0	0	0	0	0	0	0	0	1,070	1,430	1,350	0
24	0	0	0	0	0	0	0	0	1,170	1,420	1,300	0
25	0	0	0	0	0	0	0	0	1,360	1,400	1,020	0
26	0	0	0	0	0	0	0	0	1,470	1,400	717	0
27	0	0	0	0	0	0	0	0	1,510	1,390	585	0
28	0	0	0	0	0	0	0	0	1,500	1,380	335	0
29	0	0	0	0	-----	0	0	0	1,500	1,380	0	0
30	0	0	0	0	-----	0	0	0	1,510	1,360	0	0
31	0	-----	0	0	-----	0	-----	0	-----	1,360	0	-----
TOTAL	0	0	0	0	0	0	0	0	15,266	45,250	35,607	0
MEAN	0	0	0	0	0	0	0	0	509	1,460	1,149	0
MAX	0	0	0	0	0	0	0	0	1,510	1,510	1,430	0
MIN	0	0	0	0	0	0	0	0	0	1,360	0	0
AC-FT	0	0	0	0	0	0	0	0	30,280	89,750	70,630	0
CAL YEAR 2001	MAX	1,510	MIN	0	AC-FT	311,100						
WTR YEAR 2002	MAX	1,510	MIN	0	AC-FT	190,700						

# NORTH PLATTE RIVER BASIN

**FORT LARAMIE CANAL from North Platte River @ Mile Post 85.3, 00052200 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	608	579	22
2	0	0	0	0	0	0	0	0	0	614	574	41
3	0	0	0	0	0	0	0	0	0	617	585	47
4	0	0	0	0	0	0	0	0	0	614	592	0
5	0	0	0	0	0	0	0	0	0	605	592	48
6	0	0	0	0	0	0	0	0	0	601	583	48
7	0	0	0	0	0	0	0	0	0	596	574	41
8	0	0	0	0	0	0	0	0	0	590	572	33
9	0	0	0	0	0	0	0	0	0	592	581	17
10	0	0	0	0	0	0	0	0	0	594	579	0
11	0	0	0	0	0	0	0	0	0	596	579	0
12	0	0	0	0	0	0	0	0	0	617	577	0
13	0	0	0	0	0	0	0	0	0	621	579	0
14	0	0	0	0	0	0	0	0	0	612	577	0
15	0	0	0	0	0	0	0	0	0	612	574	0
16	0	0	0	0	0	0	0	0	0	626	581	0
17	0	0	0	0	0	0	0	0	0	617	579	0
18	0	0	0	0	0	0	0	0	0	617	590	0
19	0	0	0	0	0	0	0	0	0	617	585	0
20	0	0	0	0	0	0	0	0	0	621	594	0
21	0	0	0	0	0	0	0	0	97	628	590	0
22	0	0	0	0	0	0	0	0	498	619	592	0
23	0	0	0	0	0	0	0	0	489	617	592	0
24	0	0	0	0	0	0	0	0	414	623	590	0
25	0	0	0	0	0	0	0	0	435	619	592	0
26	0	0	0	0	0	0	0	0	459	610	502	0
27	0	0	0	0	0	0	0	0	506	605	343	0
28	0	0	0	0	0	0	0	0	572	599	177	0
29	0	0	0	0	-----	0	0	0	599	592	111	0
30	0	0	0	0	-----	0	0	0	603	592	63	0
31	0	-----	0	0	-----	0	-----	0	-----	579	30	-----
TOTAL	0	0	0	0	0	0	0	0	4,672	18,870	15,808	297
MEAN	0	0	0	0	0	0	0	0	156	609	510	9.90
MAX	0	0	0	0	0	0	0	0	603	628	594	48
MIN	0	0	0	0	0	0	0	0	0	579	30	0
AC-FT	0	0	0	0	0	0	0	0	9,270	37,430	31,360	589
CAL YEAR 2001	TOTAL	63,563	MEAN	174	MAX	630	MIN	0	AC-FT	126,100		
WTR YEAR 2002	TOTAL	39,647	MEAN	109	MAX	628	MIN	0	AC-FT	78,640		

# NORTH PLATTE RIVER BASIN

## INTERSTATE CANAL from North Platte River, 00071000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	916	1,900	1,580	0
2	0	0	0	0	0	0	0	0	918	1,900	1,580	0
3	0	0	0	0	0	0	0	0	918	1,900	1,580	0
4	0	0	0	0	0	0	0	0	918	1,900	1,580	0
5	0	0	0	0	0	0	0	0	918	1,910	1,580	0
6	0	0	0	0	0	0	0	0	918	1,930	1,540	0
7	0	0	0	0	0	0	0	0	764	1,930	1,480	0
8	0	0	0	0	0	0	0	0	291	1,930	1,480	0
9	0	0	0	0	0	0	0	0	307	1,930	1,480	0
10	0	0	0	0	0	0	0	0	301	1,930	1,470	0
11	0	0	0	0	0	0	0	0	310	1,930	1,480	0
12	0	0	0	0	0	0	0	0	369	1,930	1,480	0
13	0	0	0	0	0	0	0	0	581	1,920	1,480	0
14	0	0	0	0	0	0	0	625	807	1,930	1,480	0
15	0	0	0	0	0	0	0	676	904	1,900	1,480	0
16	0	0	0	0	0	0	0	680	933	1,880	1,480	0
17	0	0	0	0	0	0	0	710	1,060	1,870	1,480	0
18	0	0	0	0	0	0	0	715	1,280	1,870	1,180	0
19	0	0	0	0	0	0	0	717	1,450	1,880	133	0
20	0	0	0	0	0	0	0	710	1,450	1,870	0	0
21	0	0	0	0	0	0	0	715	1,450	1,820	0	0
22	0	0	0	0	0	0	0	706	1,460	1,820	0	0
23	0	0	0	0	0	0	0	715	1,550	1,780	0	0
24	0	0	0	0	0	0	0	728	1,560	1,770	0	0
25	0	0	0	0	0	0	0	724	1,660	1,730	0	0
26	0	0	0	0	0	0	0	726	1,740	1,670	0	0
27	0	0	0	0	0	0	0	719	1,760	1,630	0	0
28	0	0	0	0	0	0	0	719	1,800	1,630	0	0
29	0	0	0	0	-----	0	0	717	1,850	1,630	0	0
30	0	0	0	0	-----	0	0	782	1,870	1,620	0	0
31	0	-----	0	0	-----	0	-----	911	-----	1,610	0	-----
TOTAL	0	0	0	0	0	0	0	12,995	33,013	56,850	27,023	0
MEAN	0	0	0	0	0	0	0	419	1,100	1,834	872	0
MAX	0	0	0	0	0	0	0	911	1,870	1,930	1,580	0
MIN	0	0	0	0	0	0	0	0	291	1,610	0	0
AC-FT	0	0	0	0	0	0	0	25,780	65,480	112,800	53,600	0
CAL YEAR 2001	MAX	2,060	MIN	0	AC-FT	445,100						
WTR YEAR 2002	MAX	1,930	MIN	0	AC-FT	257,600						



# NORTH PLATTE RIVER BASIN

**LAKE ALICE RESERVOIR from North Platte, 00400300 - 2002**

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 CONTENTS IN ACRE-FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,015	812	550	324	292	252	11.0	0	2,156	4,156	2,900	310
2	1,022	799	542	324	292	252	11.0	0	2,389	3,919	2,789	294
3	1,004	789	536	322	290	249	11.0	0	2,665	3,669	2,670	294
4	1,029	779	523	322	290	249	11.0	0	2,931	3,403	2,547	284
5	1,022	772	518	320	288	245	11.0	0	3,195	3,138	2,470	273
6	1,018	760	510	320	288	241	11.0	0	3,653	2,865	2,422	271
7	1,015	760	502	318	286	241	11.0	0	4,191	2,606	2,351	261
8	1,007	753	489	318	286	241	11.0	0	4,733	2,361	2,197	258
9	1,022	737	481	316	284	238	11.0	0	4,889	2,083	2,038	258
10	1,011	722	479	316	284	238	11.0	0	4,793	1,830	1,927	245
11	1,015	719	471	314	282	234	0	0	4,811	1,601	1,779	236
12	986	712	459	314	282	234	0	0	4,793	1,539	1,622	252
13	993	700	446	312	280	231	0	0	4,787	1,618	1,409	245
14	978	691	437	312	279	231	0	0	4,745	1,710	1,213	229
15	967	679	430	310	279	227	0	0	5,064	1,826	1,004	222
16	957	673	420	310	277	227	0	0	5,622	1,958	822	215
17	935	673	415	308	277	224	0	350	6,004	2,033	625	231
18	942	661	406	306	275	224	0	769	6,062	2,110	476	214
19	935	649	397	306	275	11.0	0	1,029	6,043	2,225	294	199
20	928	643	390	304	271	11.0	0	1,236	6,212	2,342	133	188
21	914	631	383	304	271	11.0	0	1,486	6,205	2,557	241	189
22	903	623	376	302	267	11.0	0	1,647	6,114	2,704	302	183
23	907	617	365	302	267	11.0	0	1,791	5,946	2,865	314	173
24	900	603	356	302	267	11.0	0	1,425	5,780	3,003	322	162
25	872	597	348	300	263	11.0	0	1,584	5,565	3,112	312	162
26	862	597	337	298	260	11.0	0	1,706	5,322	3,180	308	154
27	855	588	337	298	260	11.0	0	1,804	5,119	3,191	329	152
28	842	580	333	296	256	11.0	0	1,887	4,895	3,170	312	145
29	832	569	331	296	-----	11.0	0	1,935	4,644	3,112	327	143
30	825	561	327	294	-----	11.0	0	1,971	4,410	3,055	314	136
31	825	-----	327	294	-----	11.0	-----	1,984	-----	2,977	310	-----
MAX	1,029	812	550	324	292	252	11.0	1,984	6,212	4,156	2,900	310
MIN	825	561	327	294	256	11.0	0	0	2,156	1,539	133	136
CHANGE	-385	-264	-234	-33.0	-38.0	-245	-11.0	1,984	2,426	-1,433	-2,667	-174
CAL YEAR 2001			MEAN	1,953	MAX	6,650	MIN	298				
WTR YEAR 2002			MEAN	1,032	MAX	6,212	MIN	0				

# NORTH PLATTE RIVER BASIN

## LITTLE LAKE ALICE RESERVOIR from North Platte River, 00405200 - 2002

LOCATION.-- Sec.15 &amp; 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 CONTENTS IN ACRE- FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	124	63.0	60.0	58.0	22.0	29.0	19.0	345	316	321	208
2	134	125	62.0	61.0	59.0	22.0	29.0	19.0	359	309	312	209
3	113	128	63.0	62.0	59.0	21.0	29.0	19.0	361	304	320	211
4	104	128	63.0	65.0	58.0	21.0	29.0	19.0	367	298	328	214
5	99.0	129	62.0	65.0	57.0	20.0	29.0	19.0	360	298	339	217
6	96.0	126	61.0	66.0	57.0	19.0	29.0	19.0	301	302	336	217
7	94.0	125	61.0	66.0	55.0	45.0	29.0	19.0	284	302	337	219
8	93.0	121	61.0	66.0	55.0	728	29.0	19.0	290	304	337	220
9	95.0	119	61.0	67.0	56.0	730	29.0	19.0	293	302	334	223
10	92.0	118	61.0	67.0	51.0	747	29.0	19.0	304	299	328	224
11	92.0	116	61.0	66.0	51.0	754	19.0	19.0	310	302	321	222
12	92.0	115	61.0	67.0	50.0	754	19.0	19.0	313	302	321	226
13	93.0	113	61.0	66.0	50.0	718	19.0	19.0	317	303	318	226
14	97.0	112	61.0	67.0	49.0	691	19.0	19.0	319	303	315	227
15	98.0	104	61.0	67.0	47.0	684	19.0	19.0	323	309	316	226
16	98.0	85.0	61.0	67.0	47.0	663	19.0	19.0	327	319	315	225
17	97.0	75.0	60.0	66.0	46.0	649	19.0	19.0	335	329	315	225
18	98.0	71.0	60.0	65.0	47.0	636	19.0	171	342	341	315	224
19	97.0	67.0	60.0	64.0	45.0	29.0	19.0	213	344	346	308	223
20	97.0	65.0	59.0	64.0	45.0	29.0	19.0	237	333	350	278	223
21	95.0	63.0	60.0	63.0	44.0	29.0	19.0	267	333	354	172	223
22	95.0	64.0	59.0	64.0	43.0	29.0	19.0	283	339	346	112	220
23	97.0	63.0	59.0	64.0	43.0	29.0	19.0	295	339	346	127	219
24	101	62.0	59.0	62.0	41.0	29.0	19.0	305	334	344	142	218
25	104	64.0	59.0	61.0	36.0	29.0	19.0	316	333	345	152	217
26	108	64.0	59.0	61.0	29.0	29.0	19.0	325	334	346	163	217
27	113	64.0	59.0	61.0	25.0	29.0	19.0	330	330	343	174	215
28	115	64.0	59.0	61.0	23.0	29.0	19.0	336	328	339	180	217
29	118	64.0	58.0	61.0	-----	29.0	19.0	338	326	335	192	217
30	120	63.0	60.0	60.0	-----	29.0	19.0	338	321	327	196	215
31	121	-----	60.0	59.0	-----	29.0	-----	339	-----	323	202	-----
MAX	194	129	63.0	67.0	59.0	754	29.0	339	367	354	339	227
MIN	92.0	62.0	58.0	59.0	23.0	19.0	19.0	19.0	284	298	112	208
CHANGE	-159	-58.0	-3.0	-1.0	-36.0	6.0	-10.0	320	-18.0	2.0	-121	13.0
CAL YEAR 2001			MEAN	184	MAX	452	MIN	45.0				
WTR YEAR 2002			MEAN	162	MAX	754	MIN	19.0				

# NORTH PLATTE RIVER BASIN

**LAKE MINATARE RESERVOIR from North Platte, 00406300 - 2002**

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 CONTENTS IN ACRE- FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29,247	28,649	28,295	27,880	27,499	27,088	26,852	26,229	34,228	31,572	15,578	8,719
2	29,280	28,633	28,295	27,864	27,499	27,088	26,774	26,213	34,870	30,939	15,233	8,550
3	29,247	28,601	28,295	27,864	27,467	27,072	26,758	26,244	35,498	30,343	14,845	8,643
4	29,247	28,601	28,279	27,848	27,467	27,056	26,742	26,151	36,113	29,719	14,451	8,617
5	29,231	28,601	28,263	27,848	27,451	27,056	26,727	26,136	36,767	29,101	14,199	8,651
6	29,215	28,584	28,263	27,832	27,451	27,025	26,727	26,089	37,264	28,488	13,848	8,525
7	29,182	28,584	28,247	27,832	27,435	27,009	26,711	26,120	37,603	27,864	13,535	8,575
8	29,166	28,536	28,215	27,832	27,451	27,009	26,696	26,043	37,925	27,246	13,237	8,736
9	29,166	28,520	28,215	27,816	27,388	27,009	26,696	25,966	38,249	26,617	12,770	8,542
10	29,134	28,520	28,199	27,800	27,372	27,009	26,680	25,950	38,428	25,997	12,566	8,643
11	29,117	28,504	28,199	27,784	27,356	27,009	26,664	25,966	38,447	25,399	12,154	8,500
12	29,069	28,488	28,167	27,784	27,340	26,994	26,649	25,935	38,447	24,808	11,883	8,617
13	29,020	28,488	28,151	27,769	27,340	26,978	26,633	25,920	38,447	24,239	11,749	8,643
14	29,053	28,456	28,151	27,753	27,309	26,994	26,617	25,889	38,483	23,662	11,081	8,550
15	28,972	28,488	28,135	27,753	27,293	26,994	26,602	25,873	38,428	23,093	10,883	8,677
16	28,972	28,472	28,119	27,737	27,293	27,025	26,571	25,843	38,356	22,559	11,081	8,660
17	28,972	28,472	28,103	27,721	27,293	26,994	26,524	25,827	38,195	22,032	10,030	8,517
18	28,939	28,456	28,087	27,705	27,277	26,994	26,493	25,950	37,961	21,525	9,508	8,651
19	28,923	28,440	28,087	27,689	27,261	26,978	26,430	26,337	37,514	21,024	9,275	8,491
20	28,923	28,424	28,055	27,673	27,246	26,978	26,430	26,805	37,318	20,542	8,865	8,517
21	28,875	28,424	28,071	27,657	27,214	26,931	26,415	27,340	36,962	20,188	8,359	8,268
22	28,858	28,408	28,039	27,657	27,214	26,931	26,368	27,896	36,572	19,770	8,334	8,500
23	28,842	28,392	27,992	27,626	27,214	26,931	26,368	28,472	36,077	19,343	8,567	8,301
24	28,810	28,360	27,992	27,626	27,183	26,915	26,306	29,036	35,621	18,946	8,334	8,592
25	28,778	28,376	27,976	27,610	27,167	26,899	26,260	29,670	35,113	18,540	8,575	8,584
26	28,762	28,392	27,960	27,610	27,104	26,899	26,244	30,343	34,557	18,139	8,433	8,584
27	28,729	28,343	27,944	27,578	27,088	26,884	26,244	30,988	34,003	17,703	8,425	8,575
28	28,729	28,327	27,928	27,562	27,104	26,899	26,229	31,690	33,402	17,273	8,559	8,575
29	28,697	28,311	27,912	27,546	-----	26,852	26,198	32,363	32,804	16,872	8,542	8,567
30	28,681	28,311	27,896	27,530	-----	26,852	26,198	33,026	32,177	16,464	8,567	8,559
31	28,665	-----	27,896	27,515	-----	26,836	-----	33,625	-----	16,024	8,609	-----
MAX	29,280	28,649	28,295	27,880	27,499	27,088	26,852	33,625	38,483	31,572	15,578	8,736
MIN	28,665	28,311	27,896	27,515	27,088	26,836	26,198	25,827	32,177	16,024	8,334	8,268
CHANGE	-135	-354	-415	-381	-411	-268	-638	7,427	-1,448	-16,153	-7,415	-50.0
CAL YEAR 2001			MEAN	33,725	MAX	83,300	MIN	13,900				
WTR YEAR 2002			MEAN	25,055	MAX	38,483	MIN	8,268				

## NORTH PLATTE RIVER BASIN

## WINTERS CREEK RESERVOIR, 00412000 - 2002

LOCATION.--Sec. 13 &amp;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
	(Feet)	(Acre-feet)
Top of conservation pool	4130	3474
Top of dead storage pool		

## DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	776	848	824	762	659	566	460	411	166	919	653	566
2	781	848	822	758	657	566	457	339	215	908	651	566
3	787	845	822	752	651	561	454	339	522	891	645	566
4	793	845	820	752	649	555	447	339	618	886	637	563
5	799	841	820	746	647	548	441	339	704	875	641	537
6	805	841	814	744	641	550	442	339	768	865	653	543
7	808	843	814	738	637	543	438	339	816	852	641	537
8	814	843	814	736	636	545	438	339	858	837	639	534
9	822	841	810	736	632	539	438	339	906	831	634	537
10	822	841	812	732	626	532	438	339	941	818	626	537
11	824	841	812	730	622	532	430	339	970	814	620	537
12	824	841	810	726	620	523	430	339	995	799	615	537
13	822	835	808	722	617	518	430	339	1,018	791	603	537
14	829	833	801	722	613	518	430	339	1,043	776	594	537
15	843	835	801	722	609	516	411	339	1,039	770	587	536
16	843	831	799	722	603	515	411	339	1,027	762	570	536
17	850	831	795	718	598	515	411	339	1,018	748	561	530
18	850	833	795	710	598	513	411	339	1,011	736	546	525
19	850	831	793	704	596	502	411	339	1,002	726	543	525
20	850	829	791	700	592	502	411	339	993	710	532	523
21	850	824	785	694	590	501	411	339	979	726	527	523
22	848	824	789	690	579	490	411	339	977	722	529	516
23	848	826	783	690	579	494	411	339	975	716	534	516
24	850	822	781	684	579	494	411	339	970	700	537	513
25	850	824	781	678	579	490	411	339	964	698	543	511
26	848	826	774	674	577	482	411	339	961	0	550	506
27	848	826	772	674	572	474	411	339	957	682	546	504
28	850	826	772	674	566	470	411	339	950	676	557	502
29	850	826	772	670	-----	469	411	339	939	668	563	497
30	848	824	764	668	-----	465	411	339	926	664	563	496
31	841	-----	760	666	-----	462	-----	201	-----	655	566	-----
MAX	850	848	824	762	659	566	460	411	1,043	919	653	566
MIN	776	822	760	666	566	462	411	201	166	0	527	496
CHANGE	71	-17.0	-64.0	-94.0	-100	-104	-51.0	-210	725	-271	-89.0	-70.0
CAL YEAR 2001			MEAN	823	MAX	1,220	MIN	529				
WTR YEAR 2002			MEAN	650	MAX	1,043	MIN	0				

# NORTH PLATTE RIVER BASIN

**MITCHELL & GERING CANAL from North Platte River, 00101100 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	154	107	292	284	0
2	0	0	0	0	0	0	0	157	122	293	286	0
3	0	0	0	0	0	0	0	156	133	285	287	0
4	0	0	0	0	0	0	0	151	132	283	287	0
5	0	0	0	0	0	0	0	148	132	285	287	0
6	0	0	0	0	0	0	0	144	107	286	281	0
7	0	0	0	0	0	0	0	141	43	286	289	0
8	0	0	0	0	0	0	0	139	43	300	289	0
9	0	0	0	0	0	0	0	137	43	296	288	0
10	0	0	0	0	0	0	0	134	16	300	287	0
11	0	0	0	0	0	0	0	137	0	305	286	0
12	0	0	0	0	0	0	0	137	0	304	266	0
13	0	0	0	0	0	0	0	136	0	304	229	0
14	0	0	0	0	0	0	0	134	0	296	230	0
15	0	0	0	0	0	0	113	134	0	288	191	0
16	0	0	0	0	0	0	148	134	0	292	144	0
17	0	0	0	0	0	0	145	132	0	288	144	0
18	0	0	0	0	0	0	144	135	8.5	287	134	126
19	0	0	0	0	0	0	144	127	79	290	129	221
20	0	0	0	0	0	0	145	121	107	291	129	223
21	0	0	0	0	0	0	149	118	108	294	129	226
22	0	0	0	0	0	0	149	118	109	294	130	228
23	0	0	0	0	0	0	148	115	107	289	130	225
24	0	0	0	0	0	0	150	104	118	269	130	223
25	0	0	0	0	0	0	150	98	160	265	130	204
26	0	0	0	0	0	0	149	100	205	265	129	183
27	0	0	0	0	0	0	154	108	223	265	105	173
28	0	0	0	0	0	0	156	109	256	270	51	175
29	0	0	0	0	-----	0	155	106	274	276	0	179
30	0	0	0	0	-----	0	152	109	271	279	0	179
31	0	-----	0	0	-----	0	-----	108	-----	283	0	-----
TOTAL	0	0	0	0	0	0	2,351	3,981	2,903.5	8,900	5,681	2,565
MEAN	0	0	0	0	0	0	78.4	128	96.8	287	183	85.5
MAX	0	0	0	0	0	0	156	157	274	305	289	228
MIN	0	0	0	0	0	0	0	98	0	265	0	0
AC-FT	0	0	0	0	0	0	4,660	7,900	5,760	17,650	11,270	5,090
CAL YEAR 2001	TOTAL	32,788.1	MEAN	89.8	MAX	326	MIN	0	AC-FT	65,040		
WTR YEAR 2002	TOTAL	26,381.5	MEAN	72.3	MAX	305	MIN	0	AC-FT	52,330		

# NORTH PLATTE RIVER BASIN

## GERING CANAL from North Platte River via Mitchell and Gering Canal, 00056000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1							0	43	3.8	124	136	0	
2							0	50	8.7	128	139	0	
3							0	52	34	125	144	0	
4							0	48	54	133	145	0	
5							0	46	36	133	154	0	
6							0	45	40	137	139	0	
7							0	45	33	138	150	0	
8							0	50	5.4	137	145	0	
9							0	52	0	131	142	0	
10							0	50	0	129	133	0	
11							0	51	0	133	131	0	
12							0	55	0	138	126	0	
13							0	54	0	141	120	1.9	
14							0	47	0	145	114	2.9	
15							0	39	0	136	130	2.8	
16							0	38	0	131	163	2.6	
17							32	31	0	134	169	2.4	
18							92	35	0	134	145	2.2	
19							84	33	0	138	127	137	
20							72	28	66	139	126	165	
21							0	75	20	74	146	160	
22							0	66	29	76	148	162	
23							0	44	25	75	147	160	
24							0	36	18	77	145	152	
25							0	35	10	100	134	146	
26							0	35	5.5	121	136	122	
27							0	37	6.3	111	132	108	
28							0	38	7.7	116	128	101	
29					-----		0	40	9.9	122	136	107	
30					-----		0	43	7.2	125	132	107	
31		-----			-----		0	-----	9.1	-----	135	0	
TOTAL							0	729	1,039.7	1,277.9	4,203	3,709.2	1,641.8
MEAN							0	24.3	33.5	42.6	136	120	54.7
MAX							0	92	55	125	148	169	165
MIN							0	0	5.5	0	124	0	0
AC-FT							0	1,450	2,060	2,530	8,340	7,360	3,260
CAL YEAR 2001	MAX	261	MIN	0	AC-FT	38,300							
WTR YEAR 2002	MAX	169	MIN	0	AC-FT	24,990							

# NORTH PLATTE RIVER BASIN

**TRI-STATE CANAL from North Platte River, 00145100 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	89	1,350	519	366
2								0	106	1,340	521	340
3								0	127	1,330	540	314
4								0	152	1,320	602	300
5								0	353	1,320	607	282
6								0	532	1,320	851	272
7								0	676	1,320	776	267
8								0	740	1,320	699	267
9								0	685	1,330	643	272
10								0	559	1,330	606	267
11								0	528	1,330	557	262
12								0	534	1,320	398	334
13								0	686	1,320	387	310
14								0	963	1,060	370	274
15								0	1,050	576	398	262
16								0	1,070	481	465	248
17								0	1,100	467	413	242
18								0	1,110	465	427	81
19								0	1,100	484	401	0
20								0	1,180	542	391	0
21								0	1,260	640	411	0
22								0	1,290	683	378	0
23								0	1,260	675	333	0
24								0	1,230	630	321	0
25								0	1,210	599	346	0
26								0	1,240	601	324	0
27								0	1,250	642	345	0
28								0	1,280	657	414	0
29					-----			18	1,290	663	439	0
30					-----			86	1,310	642	445	0
31		-----			-----		-----	81	-----	567	404	-----
TOTAL								185	25,960	28,324	14,731	4,960
MEAN								5.97	865	914	475	165
MAX								86	1,310	1,350	851	366
MIN								0	89	465	321	0
AC-FT								367	51,490	56,180	29,220	9,840
CAL YEAR 2001	MAX	1,350	MIN	0	AC-FT	235,300						
WTR YEAR 2002	MAX	1,350	MIN	0	AC-FT	147,100						

# NORTH PLATTE RIVER BASIN

## TRI-STATE CANAL from Sheep Creek, 00144700 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	45	34	52	51
2								0	47	36	54	51
3								0	45	37	54	51
4								0	46	39	54	51
5								0	44	38	55	51
6								0	43	40	96	51
7								0	43	40	64	50
8								0	0	40	60	50
9								0	0	39	59	50
10								0	0	40	58	51
11								0	0	40	54	51
12								0	58	43	54	59
13								0	73	43	56	65
14								0	38	43	56	61
15								0	41	43	56	60
16								0	41	43	56	59
17								0	37	47	54	59
18								0	36	45	56	58
19								0	36	47	58	57
20								0	37	48	61	58
21								0	38	49	55	57
22								0	37	53	51	59
23								0	36	51	51	59
24								0	36	51	51	59
25								0	34	51	51	58
26								0	36	52	51	59
27								0	36	56	51	59
28								0	39	56	57	58
29					-----			42	38	54	54	58
30					-----			44	34	51	54	58
31		-----			-----		-----	44	-----	52	51	-----
TOTAL								130	1,074	1,401	1,744	1,678
MEAN								4.19	35.8	45.2	56.3	55.9
MAX								44	73	56	96	65
MIN								0	0	34	51	50
AC-FT								258	2,130	2,780	3,460	3,330
CAL YEAR 2001	MAX	104	MIN	0	AC-FT	16,300						
WTR YEAR 2002	MAX	96	MIN	0	AC-FT	11,950						



# NORTH PLATTE RIVER BASIN

**TRI-STATE CANAL from Akers Draw, 00144500 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									8.0	9.0	8.0	9.0
2									8.0	10	8.0	9.0
3									8.0	10	8.0	9.0
4									8.0	10	8.0	8.0
5									8.0	10	8.0	8.0
6									8.0	10	9.0	7.0
7									7.0	10	10	7.0
8								9.0	7.0	10	10	7.0
9								9.0	7.0	10	11	7.0
10								8.0	7.0	10	11	7.0
11								7.0	7.0	10	11	7.0
12								7.0	8.0	10	10	7.0
13								9.0	7.0	10	10	7.0
14								9.0	10	10	10	7.0
15								9.0	8.0	10	10	7.0
16								9.0	8.0	10	9.0	8.0
17								9.0	8.0	10	10	8.0
18								9.0	11	10	10	8.0
19								9.0	10	10	10	8.0
20								9.0	10	10	9.0	8.0
21								9.0	10	10	10	8.0
22								9.0	10	7.0	9.0	8.0
23								9.0	10	7.0	7.0	8.0
24								9.0	9.0	7.0	7.0	8.0
25								9.0	11	7.0	7.0	8.0
26								9.0	7.0	8.0	7.0	8.0
27								9.0	9.0	8.0	7.0	8.0
28								9.0	9.0	7.0	9.0	9.0
29					-----			7.0	9.0	7.0	9.0	9.0
30					-----			7.0	9.0	8.0	10	8.0
31		-----			-----		-----	7.0	-----	8.0	10	-----
TOTAL								205.0	256.0	283.0	282.0	235.0
MEAN								8.54	8.53	9.13	9.10	7.83
MAX								9.0	11	10	11	9.0
MIN								7.0	7.0	7.0	7.0	7.0
AC-FT								407	508	561	559	466

CAL YEAR 2001 MAX 16 MIN 6.0 AC-FT 3,500  
WTR YEAR 2002 MAX 11 MIN 7.0 AC-FT 2,500

# NORTH PLATTE RIVER BASIN

## TRI-STATE CANAL from Dry Spotted Tail Creek, 00144600 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	4.0	7.0	13	9.0
2	0	0	0	0	0	0	0	0	4.0	7.0	13	9.0
3	0	0	0	0	0	0	0	0	5.0	7.0	14	8.0
4	0	0	0	0	0	0	0	0	6.0	8.0	14	8.0
5	0	0	0	0	0	0	0	0	5.0	8.0	18	8.0
6	0	0	0	0	0	0	0	0	5.0	8.0	18	8.0
7	0	0	0	0	0	0	0	0	4.0	8.0	15	8.0
8	0	0	0	0	0	0	0	0	0	8.0	15	7.0
9	0	0	0	0	0	0	0	0	0	8.0	15	8.0
10	0	0	0	0	0	0	0	0	0	8.0	16	8.0
11	0	0	0	0	0	0	0	0	0	8.0	15	7.0
12	0	0	0	0	0	0	0	0	0	10	16	10
13	0	0	0	0	0	0	0	0	0	9.0	17	12
14	0	0	0	0	0	0	0	0	4.0	9.0	17	12
15	0	0	0	0	0	0	0	0	4.0	10	17	11
16	0	0	0	0	0	0	0	0	0	10	17	11
17	0	0	0	0	0	0	0	0	4.0	9.0	17	10
18	0	0	0	0	0	0	0	0	4.0	11	17	10
19	0	0	0	0	0	0	0	0	4.0	10	17	10
20	0	0	0	0	0	0	0	0	5.0	11	16	10
21	0	0	0	0	0	0	0	0	5.0	12	12	10
22	0	0	0	0	0	0	0	0	6.0	13	11	10
23	0	0	0	0	0	0	0	0	6.0	13	12	10
24	0	0	0	0	0	0	0	0	6.0	13	11	10
25	0	0	0	0	0	0	0	0	6.0	13	12	11
26	0	0	0	0	0	0	0	0	6.0	13	11	9.0
27	0	0	0	0	0	0	0	0	6.0	13	10	10
28	0	0	0	0	0	0	0	0	7.0	14	10	9.0
29	0	0	0	0	-----	0	0	0	6.0	13	11	9.0
30	0	0	0	0	-----	0	0	0	6.0	13	11	9.0
31	0	-----	0	0	-----	0	-----	3.0	-----	14	9.0	-----
TOTAL	0	0	0	0	0	0	0	3.0	118.0	318.0	437.0	281.0
MEAN	0	0	0	0	0	0	0	.097	3.93	10.3	14.1	9.37
MAX	0	0	0	0	0	0	0	3.0	7.0	14	18	12
MIN	0	0	0	0	0	0	0	0	0	7.0	9.0	7.0
AC-FT	0	0	0	0	0	0	0	6.0	234	631	867	557
CAL YEAR 2001	TOTAL	1,944.0	MEAN	5.33	MAX	32	MIN	0	AC-FT	3,860		
WTR YEAR 2002	TOTAL	1,157.0	MEAN	3.17	MAX	18	MIN	0	AC-FT	2,290		

# NORTH PLATTE RIVER BASIN

**TRI-STATE CANAL from Wet Spotted Tail Creek, 00144900 - 2002**

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 2001 TO SEP 2002

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	5.0
3	0	0	0	0	0	0	0	0	0	0	0	3.0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	3.0	0	4.0
6	0	0	0	0	0	0	0	0	0	10	0	5.0
7	0	0	0	0	0	0	0	0	0	0	0	4.0
8	0	0	0	0	0	0	0	38	0	0	0	4.0
9	0	0	0	0	0	0	0	16	0	0	0	5.0
10	0	0	0	0	0	0	0	14	0	3.0	0	5.0
11	0	0	0	0	0	0	0	13	16	11	0	5.0
12	0	0	0	0	0	0	0	14	18	10	0	8.0
13	0	0	0	0	0	0	0	0	17	13	0	5.0
14	0	0	0	0	0	0	0	3.0	0	4.0	0	5.0
15	0	0	0	0	0	0	0	7.0	0	4.0	0	5.0
16	0	0	0	0	0	0	0	3.0	16	26	0	4.0
17	0	0	0	0	0	0	0	3.0	0	46	0	4.0
18	0	0	0	0	0	0	0	3.0	0	52	0	4.0
19	0	0	0	0	0	0	0	0	0	48	0	4.0
20	0	0	0	0	0	0	0	0	0	49	0	5.0
21	0	0	0	0	0	0	0	0	0	69	4.0	5.0
22	0	0	0	0	0	0	0	5.0	0	43	3.0	5.0
23	0	0	0	0	0	0	0	0	0	3.0	0	5.0
24	0	0	0	0	0	0	0	0	0	3.0	4.0	5.0
25	0	0	0	0	0	0	0	0	0	0	9.0	5.0
26	0	0	0	0	0	0	0	0	0	0	5.0	5.0
27	0	0	0	0	0	0	0	0	0	0	4.0	5.0
28	0	0	0	0	0	0	0	0	0	0	5.0	5.0
29	0	0	0	0	-----	0	0	0	0	0	5.0	5.0
30	0	0	0	0	-----	0	0	0	0	0	5.0	3.0
31	0	-----	0	0	-----	0	-----	0	-----	0	5.0	-----
TOTAL	0	0	0	0	0	0	0	119.0	67	397.0	49.0	137.0
MEAN	0	0	0	0	0	0	0	3.84	2.23	12.8	1.58	4.57
MAX	0	0	0	0	0	0	0	38	18	69	9.0	8.0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	236	133	787	97	272
CAL YEAR 2001	MAX	273	MIN	0	AC-FT	3,020						
WTR YEAR 2002	MAX	69	MIN	0	AC-FT	1,530						

## NORTH PLATTE RIVER BASIN

## TRI-STATE CANAL from Tub Springs, 00144800 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	3.0	15	19	20
2	0	0	0	0	0	0	0	0	4.0	15	19	20
3	0	0	0	0	0	0	0	0	4.0	14	20	20
4	0	0	0	0	0	0	0	0	4.0	16	19	19
5	0	0	0	0	0	0	0	0	6.0	16	22	19
6	0	0	0	0	0	0	0	0	6.0	17	21	19
7	0	0	0	0	0	0	0	0	7.0	18	19	18
8	0	0	0	0	0	0	0	0	0	18	17	18
9	0	0	0	0	0	0	0	0	0	18	16	18
10	0	0	0	0	0	0	0	0	0	19	19	17
11	0	0	0	0	0	0	0	0	0	18	21	16
12	0	0	0	0	0	0	0	0	8.0	18	21	16
13	0	0	0	0	0	0	0	0	9.0	19	21	13
14	0	0	0	0	0	0	0	0	9.0	19	21	13
15	0	0	0	0	0	0	0	0	10	19	21	13
16	0	0	0	0	0	0	0	0	10	20	21	13
17	0	0	0	0	0	0	0	0	10	21	21	13
18	0	0	0	0	0	0	0	0	10	20	22	13
19	0	0	0	0	0	0	0	0	11	21	21	13
20	0	0	0	0	0	0	0	0	12	22	21	13
21	0	0	0	0	0	0	0	0	12	22	22	13
22	0	0	0	0	0	0	0	0	14	19	21	13
23	0	0	0	0	0	0	0	0	14	19	20	13
24	0	0	0	0	0	0	0	0	14	19	20	13
25	0	0	0	0	0	0	0	0	13	19	20	12
26	0	0	0	0	0	0	0	0	16	20	20	12
27	0	0	0	0	0	0	0	0	16	21	20	12
28	0	0	0	0	0	0	0	0	16	21	20	12
29	0	0	0	0	-----	0	0	0	16	21	21	12
30	0	0	0	0	-----	0	0	0	15	19	20	12
31	0	-----	0	0	-----	0	-----	0	-----	19	20	-----
TOTAL	0	0	0	0	0	0	0	0	269.0	582	626	448
MEAN	0	0	0	0	0	0	0	0	8.97	18.8	20.2	14.9
MAX	0	0	0	0	0	0	0	0	16	22	22	20
MIN	0	0	0	0	0	0	0	0	0	14	16	12
AC-FT	0	0	0	0	0	0	0	0	534	1,150	1,240	889
CAL YEAR 2001	MAX	42	MIN	0	AC-FT	7,240						
WTR YEAR 2002	MAX	22	MIN	0	AC-FT	3,820						

# NORTH PLATTE RIVER BASIN

**NORTHPORT CANAL from North Platte River and Drains via Tri-State Canal, 00115100 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0						0	0	0	218	231	89
2	0						0	0	0	231	239	80
3	0						0	0	0	234	258	60
4	0						0	0	0	245	250	55
5							0	0	0	253	276	54
6							0	0	0	256	259	45
7							0	0	0	252	268	30
8							0	0	5.6	242	247	27
9							0	0	11	233	233	31
10							0	0	7.6	243	262	57
11							0	0	6.0	253	268	60
12							0	0	5.8	258	251	65
13							0	0	5.9	249	235	87
14							0	0	4.7	251	140	124
15							0	0	125	256	83	114
16							0	0	145	242	49	99
17							0	0	178	206	49	89
18							0	0	213	189	56	88
19							0	0	238	131	64	88
20							0	0	232	134	61	93
21							0	0	239	167	53	53
22						0	0	0	266	240	46	18
23						0	0	0	274	287	34	18
24						0	0	0	259	257	43	18
25						0	0	0	253	254	43	16
26						0	0	0	224	245	44	15
27						0	0	0	231	215	54	14
28						0	0	0	219	222	60	15
29					-----	0	0	0	218	240	54	14
30					-----	0	0	0	220	242	83	13
31		-----			-----	0	-----	0	-----	239	90	-----
TOTAL	0					0	0	0	3,580.6	7,184	4,383	1,629
MEAN	0					0	0	0	119	232	141	54.3
MAX	0					0	0	0	274	287	276	124
MIN	0					0	0	0	0	131	34	13
AC-FT	0					0	0	0	7,100	14,250	8,690	3,230
CAL YEAR 2001	MAX	268	MIN	0	AC-FT	49,150						
WTR YEAR 2002	MAX	287	MIN	0	AC-FT	33,280						

# NORTH PLATTE RIVER BASIN

## HORSE CREEK near Lyman, 06677500 - 2002

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 405 cubic feet per second June 23, gage height 4.33 feet; minimum daily discharge 5.6 cubic feet per second on June 18.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	44	33	24E	13E	16E	14	15	8.4	31	45	123
2	72	43	33	22E	13	16E	15	15	8.7	27	40	109
3	68	42	33	25E	13E	16E	15	14	8.4	25	44	75
4	67	41	33	24	14	16	14	13	11	28	49	62
5	72	41	34	22	14	17	14	13	9.7	25	84	53
6	69	40	32	22	14E	17	14	13	8.6	25	122	50
7	65	39	32	22	15	16	13	13	7.6	24	111	46
8	63	38	30	24	15	16E	14	13	7.3	24	95	45
9	64	38	29	23	15E	17E	14	13	6.7	25	83	47
10	75	37	29	22	16E	17	13	13	6.2	24	79	44
11	64	37	28	20	18	17	13	13	5.9	25	73	43
12	60	36	27	19	17	18	12	13	6.0	27	64	56
13	58	35	27	19	17E	17	12	12	6.0	31	60	50
14	57	34	27	17	18	17	12	12	5.9	31	58	44
15	59	34	27	17	17E	17	84	12	5.9	29	59	41
16	57	34	25	17E	17	17	50	12	5.9	28	51	40
17	56	34	25	17E	18	17	15	12	5.7	29	49	38
18	54	34	27	16E	18	17	14	11	5.6	30	47	39
19	53	34	24	16E	19	16	14	11	6.0	29	51	40
20	52	34	26	16	18	17	15	11	6.2	31	65	38
21	51	34	26	16E	17	17	14	11	6.3	36	64	37
22	51	33	24	16	17	15	13	9.7	205	40	59	35
23	49	33	24E	14	17	16	13	9.5	336	48	59	35
24	47	33	24E	14E	17	16	12	9.5	222	53	50	34
25	48	33	25E	15E	17E	16	12	9.3	95	47	57	34
26	48	32	25	15	17E	16	13	9.0	56	51	53	34
27	48	31E	24	14	17E	16	14	9.1	37	43	122	34
28	47	33E	23	13	16E	15	13	9.1	31	47	264	33
29	46	33E	23E	13E	-----	15	13	8.6	30	49	265	32
30	46	32E	24E	13	-----	15	13	8.3	32	49	206	31
31	45	-----	24E	13E	-----	15	-----	8.2	-----	51	139	-----
TOTAL	1,787	1,076	847	560	454	506	511	355.3	1,192.0	1,062	2,667	1,422
MEAN	57.6	35.9	27.3	18.1	16.2	16.3	17.0	11.5	39.7	34.3	86.0	47.4
MAX	76	44	34	25	19	18	84	15	336	53	265	123
MIN	45	31	23	13	13	15	12	8.2	5.6	24	40	31
AC-FT	3,540	2,130	1,680	1,110	901	1,000	1,010	705	2,360	2,110	5,290	2,820
CAL YEAR 2001 TOTAL		33,500.0	MEAN	91.8	MAX	2,200	MIN	15	AC-FT	66,450		
WTR YEAR 2002 TOTAL		12,439.3	MEAN	34.1	MAX	336	MIN	5.6	AC-FT	24,670		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

**SHEEP CREEK near Morrill, 06678000 - 2002**

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 140 cubic feet per second December 3, gage height 2.64 feet; minimum daily discharge 1.4 cubic feet per second October 19 - 21.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.1	3.5	76	84E	81	73	67	2.0	3.6	2.7	2.7
2	2.0	2.1	3.6	74E	83	80E	72	65	2.1	3.4	2.5	2.7
3	2.0	2.3	35	74E	82E	76E	73	63	2.1	3.5	2.3	2.6
4	2.0	2.3	67 E	74E	82E	74	72	62	2.1	3.4	2.3	2.5
5	2.0	2.3	68 E	74E	82E	73	72	62	2.0	3.4	2.5	2.4
6	2.1	2.6	69 E	72E	82E	74E	71	63	2.1	3.5	3.1	2.4
7	2.0	2.6	69 E	72E	82E	77	70	65	2.3	3.4	2.5	2.5
8	1.9	2.5	70 E	72E	82E	75	71	65	18	3.5	2.5	2.5
9	1.9	2.6	72 E	72E	82E	76	72	63	33	3.3	2.5	2.5
10	1.8	2.7	74 E	72E	82E	76E	72	62	34	3.3	2.5	2.4
11	2.1	2.7	76 E	73	82E	76E	71	61	18	3.3	2.4	2.6
12	2.2	2.8	78 E	74	80E	76E	70	60	2.8	3.3	2.4	2.7
13	1.9	2.9	82 E	75	80E	76E	69	59	2.7	3.3	2.3	2.7
14	1.9	3.0	84 E	75	80	76E	68	58	2.7	3.3	2.2	2.6
15	1.7	3.1	86 E	75	79	76E	68	57	2.9	3.2	2.3	2.6
16	1.8	3.2	86 E	77	78	74E	65	57	2.9	3.1	2.3	2.6
17	1.6	3.2	86 E	77	78	74E	64	59	3.0	3.0	2.3	2.6
18	1.7	3.7	84 E	78	76	74E	63	60	2.9	3.0E	2.4	2.5
19	1.4	4.1	84 E	78	76	73	63	59	2.9	2.9E	2.5	2.3
20	1.4	4.0	84 E	80	79	72	63	58	3.1	2.8	2.5	2.3
21	1.4	4.1	84 E	81	78	74E	62	61	3.2	2.8	2.5	2.4
22	1.5	4.1	82 E	81	79	76E	61	63	3.3	2.7	2.5	2.4
23	1.4	4.1	82 E	81	80	76E	63	63	3.3	2.6	2.4	2.4
24	1.6	3.9	80 E	81	79	76E	62	64	3.3	2.5	2.3	2.4
25	1.6	4.0	80 E	82	78	76E	62	63	3.5	2.6	2.4	2.4
26	1.5	3.7	79	82	79	76	62	62	3.5	2.7	2.4	2.4
27	1.5	3.3	76	83	80	74	64	62	3.5	2.8	2.4	2.4
28	1.5	3.3	76	83	81	77	63	59	3.5	2.9	2.4	2.3
29	1.7	3.3	75	84	-----	76	62	30	3.6	3.0	2.6	2.3
30	1.8	3.4	76	85	-----	75	64	2.0	3.5	2.9	2.5	2.3
31	2.2	-----	76	84E	-----	75	-----	1.9	-----	2.8	2.7	-----
TOTAL	55.1	94.0	2,227.1	2,401	2,245	2,340	2,007	1,755.9	177.8	95.8	76.1	74.4
MEAN	1.78	3.13	71.8	77.5	80.2	75.5	66.9	56.6	5.93	3.09	2.45	2.48
MAX	2.2	4.1	86	85	84	81	73	67	34	3.6	3.1	2.7
MIN	1.4	2.1	3.5	72	76	72	61	1.9	2.0	2.5	2.2	2.3
AC-FT	109	186	4,420	4,760	4,450	4,640	3,980	3,480	353	190	151	148
CAL YEAR 2001	TOTAL	13,193.10	MEAN	36.1	MAX	86	MIN	1.4	AC-FT	26,170		
WTR YEAR 2002	TOTAL	13,549.20	MEAN	37.1	MAX	86	MIN	1.4	AC-FT	26,870		

E indicates estimated discharge.

## NORTH PLATTE RIVER BASIN

## ENTERPRISE CANAL from North Platte River, 00040000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	36	71	96	54
2							0	0	38	79	96	50
3							0	0	37	84	106	43
4							0	0	40	99	107	38
5							0	0	39	90	110	32
6							0	0	39	84	103	8.1
7							0	0	40	84	96	0
8							0	20	42	84	106	0
9							0	36	49	86	100	
10							0	36	50	86	98	
11							0	36	48	88	95	
12							0	35	42	92	100	
13							0	39	41	85	102	
14							0	44	42	88	98	
15							0	43	43	91	96	
16							0	43	43	108	92	
17							0	42	45	103	86	
18							0	40	47	107	87	
19							0	41	46	106	86	
20							0	42	45	100	85	
21						0	0	41	45	99	87	
22						0	0	38	55	96	83	
23						0	0	36	67	95	86	
24						0	0	37	72	91	86	
25						0	0	39	74	91	89	
26						0	0	38	77	99	90	
27						0	0	37	68	97	91	
28						0	0	37	63	97	96	
29					-----	0	0	36	70	97	81	
30					-----	0	0	32	70	96	68	
31		-----			-----	0	-----	37	-----	93	55	-----
TOTAL						0	0	905	1,513	2,866	2,857	225.1
MEAN						0	0	29.2	50.4	92.5	92.2	28.1
MAX						0	0	44	77	108	110	54
MIN						0	0	0	36	71	55	0
AC-FT						0	0	1,800	3,000	5,680	5,670	446
CAL YEAR 2001	MAX	147	MIN	0	AC-FT	21,470						
WTR YEAR 2002	MAX	110	MIN	0	AC-FT	16,590						



# NORTH PLATTE RIVER BASIN

**DRY SPOTTED TAIL CREEK at Mitchell, 06679000 - 2002**

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 141 cubic feet per second July 1, gage height 1.73 feet; minimum daily discharge 7.4 cubic feet per second June 1.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	58	38E	26	23	20	20	17	7.4	46	40	25
2	86	65	38E	26	23	21	18	18	7.7	36	41	22
3	84	70	38E	26	23	20	16	18	8.7	37	42	22
4	85	71	37	26E	23	21	16	17	9.5	43	39	22
5	92	76	34	26E	23	21	16	16	10	39	51	34
6	90	74	33	25E	23	21	16	15	9.1	39	63	25
7	87	71	33	25E	23	21	16	13	8.8	37	48	20
8	85	65	33	25E	22	20	16	22	11	36	46	19
9	85	64	33	24E	20	20	16	44	13	36	43	18
10	87	65	32	24E	23	20	16	45	13	33	41	17
11	84	65	31	24E	22	20	16	45	12	36	40	17
12	81	62	31	24E	22	20	16	44	8.6	45	40	23
13	81	56	30	23E	21	20	15	31	9.1	41	44	20
14	80	54E	30	23E	20	21	15	20	11	38	40	18
15	82	52E	29	23E	21	19	15	18	13	37	53	18
16	86	50E	28	23	21	19	15	17	13	39	68	17
17	91	50E	28	23	21	19	14	16	14	38	73	16
18	88	48E	29	23	20	19	14	16	21	39	63	16
19	87	48E	29	23	20	18	15	15	29	39	40	15
20	86	46E	29	23	20	18	15	15	25	38	29	15
21	83	46E	28	23	20	19	16	14	21	40	24	15
22	81	44E	25	24	21	20	15	14	23	44	23	15
23	74	44E	28	24	21	21	14	14	24	40	25	14
24	70	42E	28	23	21	21	13	13	22	38	24	15
25	70	42E	27	23	20	22	14	12	21	38	26	18
26	69	40E	27	24	22	22	15	11	25	42	24	18
27	68	40E	28	24	21	21	16	9.6	23	41	24	17
28	64	40E	26	23	21	21	17	10	24	42	27	16
29	63	38E	27	23	-----	20	17	9.8	24	41	24	16
30	66	38E	27	23	-----	20	16	9.5	26	39	24	16
31	61	-----	27	23	-----	20	-----	7.8	-----	39	22	-----
TOTAL	2,483	1,624	941	742	601	625	469	586.7	486.9	1,216	1,211	559
MEAN	80.1	54.1	30.4	23.9	21.5	20.2	15.6	18.9	16.2	39.2	39.1	18.6
MAX	92	76	38	26	23	22	20	45	29	46	73	34
MIN	61	38	25	23	20	18	13	7.8	7.4	33	22	14
AC-FT	4,930	3,220	1,870	1,470	1,190	1,240	930	1,160	966	2,410	2,400	1,110
CAL YEAR 2001	TOTAL	16,180.0	MEAN	44.3	MAX	218	MIN	13	AC-FT	32,090		
WTR YEAR 2002	TOTAL	11,544.6	MEAN	31.6	MAX	92	MIN	7.4	AC-FT	22,900		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at Mitchell, 06679500 - 2002

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 901 cubic feet per second October 1, gage height 2.70 feet; maximum gage height 2.80 feet September 30; minimum daily discharge 84 cubic feet per second June 2.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	887	596	539	400	397	367	355	191	86	192	211	200
2	861	597	538	392	400	365	352	189	84	220	200	188
3	833	597	540	393	400	362	351	186	86	265	214	180
4	818	593	534	406	393	364	351	183	86	394	219	173
5	838	591	524	405	391	367	353	183	86	378	245	175
6	823	587	520	405	384	372	354	181	86	348	394	185
7	801	588	516	405	382	370	352	182	93	311	269	181
8	776	581	508	415	384	369	349	179	92	272	246	176
9	764	578	503	417	381	352	349	179	108	241	212	179
10	790	577	500	417	377	366	348	178	112	226	209	176
11	766	573	493	413	384	373	345	179	111	223	199	172
12	744	569	486	414	381	369	345	175	93	233	183	188
13	729	565	480	414	374	368	335	164	89	209	196	186
14	720	563	477	411	378	382	336	144	89	181	174	174
15	722	558	480	410	371	377	333	139	91	190	158	167
16	707	556	471	406	370	376	345	137	89	265	147	162
17	695	555	466	406	370	376	294	136	86	260	143	159
18	683	553	466	406	368	375	238	133	89	252	140	181
19	678	548	462	400	367	372	231	132	114	240	135	189
20	672	549	460	403	370	373	228	130	98	242	132	172
21	664	545	458	401	365	370	226	128	93	245	143	167
22	653	545	447	402	363	370	214	126	111	231	142	162
23	644	545	434	404	363	370	207	124	287	209	136	159
24	631	540	437	391	369	366	199	123	327	201	129	154
25	623	535	437	392	369	357	193	118	232	196	134	154
26	618	538	436	400	370E	361	190	116	179	246	133	160
27	613	533	435	411	370	361	192	123	153	269	146	178
28	607	527	426	408	370	360	192	124	128	264	231	337
29	599	526	412	403	-----	356	190	123	145	270	259	606
30	604	540	413	403	-----	354	185	114	165	256	244	748
31	603	-----	408	402	-----	354	-----	91	-----	220	221	-----
TOTAL	22,166	16,848	14,706	12,555	10,561	11,374	8,532	4,610	3,688	7,749	5,944	6,388
MEAN	715	562	474	405	377	367	284	149	123	250	192	213
MAX	887	597	540	417	400	382	355	191	327	394	394	748
MIN	599	526	408	391	363	352	185	91	84	181	129	154
AC-FT	43,970	33,420	29,170	24,900	20,950	22,560	16,920	9,140	7,320	15,370	11,790	12,670
CAL YEAR 2001	TOTAL	175,120	MEAN	480	MAX	2,000	MIN	224	AC-FT	347,400		
WTR YEAR 2002	TOTAL	125,121	MEAN	343	MAX	887	MIN	84	AC-FT	248,200		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

**TUB SPRINGS near Scottsbluff, 06680000 - 2002**

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 305 cubic feet per second August 5, gage height 2.75 feet; minimum daily discharge 13 cubic feet per second June 1 and 17.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	41	36	29	27	26	24	23	13	26	29	34
2	56	40	35	28	28	26	24	22	14	24	29	35
3	55	40	36	28	27	26	23	21	14	27	29	35
4	56	40	36	28	27	26	23	21	15	23	33	28
5	60	40	36	28	27	27	23	21	15	24	51	27
6	58	40	36	27	27	26	23	20	15	22	56	21
7	57	40	36	27	27	26	23	20	17	24	37	22
8	55	40	36	28	27	26	22	20	24	22	42	22
9	55	40	36	28	27	26	22	19	35	25	43	24
10	57	39	35	28	29	26	22	18	35	25	40	23
11	54	40	35	28	27	26	22	20	33	24	36	23
12	53	40	34	29	27	26	22	19	22	24	36	27
13	51	40	34	29	27	26	21	18	17	25	39	24
14	49	40	34	29	26	27	22	40	17	23	35	24
15	51	38	34	29	26	26	21	42	18	24	37	22
16	51	38	33	29	26	26	21	32	14	24	39	22
17	51	38	33	29	26	26	20	30	13	22	39	23
18	50	38	33	29	27	26	20	31	19	23	40	22
19	50	38	33	28	27	25	21	30	22	24	39	22
20	49	37	33	28	26	25	21	26	26	23	39	21
21	49	37	33	28	26	25	21	24	25	23	40	21
22	48	37	32	28	26	25	21	27	27	25	40	22
23	46	37	31	28	26	26	21	26	37	24	41	21
24	46	37	31	27	26	26	21	23	36	26	40	21
25	45	37	31	27	25	25	21	24	36	24	40	21
26	43	37	31	27	25	26	21	24	39	27	40	21
27	43	37	31	27	26	25	22	24	28	25	39	21
28	43	37	30	27	26	25	22	23	22	23	49	21
29	42	37	29	27	-----	24	21	19	22	25	43	21
30	42	37	29	27	-----	24	21	19	26	27	50	21
31	42	-----	29	26	-----	24	-----	16	-----	28	37	-----
TOTAL	1,564	1,157	1,031	865	744	795	652	742	696	755	1,227	712
MEAN	50.5	38.6	33.3	27.9	26.6	25.6	21.7	23.9	23.2	24.4	39.6	23.7
MAX	60	41	36	29	29	27	24	42	39	28	56	35
MIN	42	37	29	26	25	24	20	16	13	22	29	21
AC-FT	3,100	2,290	2,040	1,720	1,480	1,580	1,290	1,470	1,380	1,500	2,430	1,410
CAL YEAR 2001	TOTAL	14,947	MEAN	41.0	MAX	122	MIN	20	AC-FT	29,650		
WTR YEAR 2002	TOTAL	10,940	MEAN	30.0	MAX	60	MIN	13	AC-FT	21,700		

## NORTH PLATTE RIVER BASIN

## WINTERS CREEK CANAL from North Platte River, 00148000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0						0	13	14	31	28	3.6
2	0						0	13	14	28	27	15
3							0	12	14	29	27	20
4							0	13	16	30	28	20
5							0	14	15	29	27	19
6							0	14	14	30	21	18
7							0	14	15	30	24	18
8							0	14	23	30	23	18
9							0	14	20	30	22	17
10							0	14	14	31	20	16
11							0	14	14	27	21	14
12							0	14	12	30	21	14
13							0	13	9.9	30	23	14
14							0	12	9.1	29	23	13
15							0	12	9.6	30	21	13
16							0	10	13	31	19	13
17							0	10	13	29	18	12
18							0	13	11	29	18	12
19							0	17	12	30	19	11
20						0	0	17	11	30	20	9.9
21						0	0	16	14	30	20	9.9
22						0	0	17	16	30	21	9.9
23						0	0	17	18	29	21	9.9
24						0	0	20	17	29	22	3.6
25						0	0	19	17	28	22	0
26						0	0	18	16	29	23	0
27						0	0	18	22	30	23	0
28						0	0	17	26	30	26	0
29					-----	0	7.6	18	29	29	16	0
30					-----	0	12	15	31	28	3.2	0
31		-----			-----	0	-----	15	-----	28	3.1	-----
TOTAL	0					0	19.6	457	479.6	913	650.3	323.8
MEAN	0					0	.65	14.7	16.0	29.5	21.0	10.8
MAX	0					0	12	20	31	31	28	20
MIN	0					0	0	10	9.1	27	3.1	0
AC-FT	0					0	39	906	951	1,810	1,290	642
CAL YEAR 2001	MAX	30	MIN	0	AC-FT	5,510						
WTR YEAR 2002	MAX	31	MIN	0	AC-FT	5,640						

# NORTH PLATTE RIVER BASIN

**WINTERS CREEK CANAL from Winters Creek, 00149000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0						0	0	21	39	45	35
2	0						0	8.0	25	39	45	34
3							0	12	27	38	49	33
4							0	16	28	40	44	32
5							0	19	26	41	32	33
6							0	19	25	39	0	30
7							0	19	25	39	0	29
8							0	18	22	37	28	29
9							0	19	19	38	49	31
10							0	18	20	41	44	29
11							0	19	21	18	41	31
12							0	18	21	43	41	32
13							0	18	20	44	41	29
14							0	17	21	42	40	21
15							0	19	20	41	39	18
16							0	21	19	42	40	17
17							0	27	19	41	41	17
18							0	24	21	42	40	17
19							0	23	21	41	39	17
20						0	0	22	24	40	39	17
21						0	0	24	26	41	29	17
22						0	0	24	26	40	0	11
23						0	0	23	30	37	19	7.7
24						0	0	26	27	39	19	6.5
25						0	0	27	27	41	33	5.4
26						0	0	27	20	35	32	2.1
27						0	0	25	35	20	31	0
28						0	0	25	34	51	36	0
29					-----	0	0	23	36	49	39	0
30					-----	0	0	22	38	47	39	0
31		-----			-----	0	-----	21	-----	45	35	-----
TOTAL	0					0	0	623.0	744	1,230	1,049	580.7
MEAN	0					0	0	20.1	24.8	39.7	33.8	19.4
MAX	0					0	0	27	38	51	49	35
MIN	0					0	0	0	19	18	0	0
AC-FT	0					0	0	1,240	1,480	2,440	2,080	1,150
CAL YEAR 2001	MAX	66	MIN	0	AC-FT	7,480						
WTR YEAR 2002	MAX	51	MIN	0	AC-FT	8,380						

## NORTH PLATTE RIVER BASIN

## CENTRAL CANAL from North Platte River, 00022000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0						0	0	26	33	31	21
2	0						0	11	26	21	31	20
3	0						0	14	26	0	32	21
4	0						0	14	27	21	31	22
5	0						0	12	24	29	32	22
6	0						0	11	25	28	25	22
7	0						0	20	19	28	28	22
8	0						0	12	22	27	29	23
9	0						0	6.5	24	31	29	23
10	0						0	9.1	23	34	28	23
11	0						0	8.9	22	35	28	23
12	0						0	8.0	25	26	27	21
13	0						0	7.8	26	10	27	18
14	0						0	7.8	24	22	27	19
15	0						0	8.1	23	24	27	19
16	0						0	21	23	29	27	18
17	0						0	25	24	27	27	17
18	0						0	26	24	27	28	17
19	0						0	24	24	31	27	14
20	0						0	24	22	27	27	12
21	0						0	24	23	28	28	13
22	0						0	25	23	23	28	13
23	0						0	19	27	23	28	12
24	0						0	25	24	32	29	8.8
25	0						0	25	28	32	29	6.6
26	0						0	25	32	32	29	0
27	0						0	25	32	32	26	0
28	0						0	25	34	32	19	0
29	0				-----		0	26	33	32	20	0
30	0				-----		0	28	33	23	21	0
31	0	-----			-----		-----	27	-----	31	21	-----
TOTAL	0						0	544.2	768	830	846	450.4
MEAN	0						0	17.6	25.6	26.8	27.3	15.0
MAX	0						0	28	34	35	32	23
MIN	0						0	0	19	0	19	0
AC-FT	0						0	1,080	1,520	1,650	1,680	893
CAL YEAR 2001	MAX	37	MIN	0	AC-FT	6,480						
WTR YEAR 2002	MAX	35	MIN	0	AC-FT	6,820						

# NORTH PLATTE RIVER BASIN

**WINTERS CREEK near Scottsbluff, 06681000 - 2002**

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, except estimated records are poor.

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 248 cubic feet per second August 5, gage height 3.97 feet; minimum daily discharge 6.7 cubic feet per second June 28.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	56	47	42E	37	36	41	40	16	8.1	19	36
2	72	56	47	42E	36	35	42	33	18	7.7	19	38
3	70	55	47	40E	35	36	41	25	19	7.6	23	41
4	70	55	46	40E	35	35	40	20	22	7.8	25	39
5	73	54	45	40	36	35	41	19	20	7.5	51	37
6	71	53	44	40	36	35	42	19	18	9.1	104	36
7	70	53	44	40	37	35	38	19	16	9.0	89	36
8	69	53	44	39	39	34	39	20	23	9.1	59	35
9	70	53	44	39	38	34	40	20	25	9.2	35	35
10	71	53	43	40	38	34	39	18	21	9.5	34	35
11	70	53	43	40	37	34	37	16	22	9.1	33	36
12	68	53	43	40	37	34	36	16	21	11	31	39
13	67	52	42	39	37	34	36	16	21	13	30	43
14	66	51	42	39	38	35	35	14	24	15	30	49
15	66	51	42	38	38	35	35	13	23	15	30	50
16	67	51	41	38	37	35	36	11	25	13	29	51
17	66	51	41	38	37	35	39	14	27	13	27	49
18	65	50	41	37	37	35	37	12	28	13	28	44
19	64	50	41	37	37	35	38	14	25	12	28	49
20	61	50	41	37	37	35	39	14	23	13	29	45
21	61	50	43	37	38	35	37	15	16	16	37	45
22	61	49	44	38	38	36	36	18	16	24	65	50
23	61	48	44	37	37	38	34	17	17	22	49	53
24	61	48	43	37	38	37	34	19	15	21	51	52
25	61	47	43	38	37	37	34	19	15	22	36	47
26	60	47	45	37	37	38	34	16	23	32	36	49
27	59	46	42	37	38	40	35	16	7.3	45	36	51
28	59	46	43	36	37	40	35	18	6.7	19	40	52
29	59	47	42	37	-----	40	34	19	7.0	20	43	51
30	59	47	41	37	-----	41	35	18	7.9	18	38	50
31	57	-----	42	36	-----	41	-----	17	-----	18	36	-----
TOTAL	2,032	1,528	1,340	1,192	1,039	1,119	1,119	565	567.9	468.7	1,220	1,323
MEAN	65.5	50.9	43.2	38.5	37.1	36.1	37.3	18.2	18.9	15.1	39.4	44.1
MAX	78	56	47	42	39	41	42	40	28	45	104	53
MIN	57	46	41	36	35	34	34	11	6.7	7.5	19	35
AC-FT	4,030	3,030	2,660	2,360	2,060	2,220	2,220	1,120	1,130	930	2,420	2,620
CAL YEAR 2001	TOTAL	19,564.0	MEAN	53.6	MAX	190	MIN	16	AC-FT	38,810		
WTR YEAR 2002	TOTAL	13,513.6	MEAN	37.0	MAX	104	MIN	6.7	AC-FT	26,800		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

## MINATARE CANAL from North Platte River, 00099000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	9.7					0	55	72	100	116	49
2	30	0					0	53	73	108	122	49
3	29	0					0	56	81	113	117	51
4	29	0					0	53	89	112	111	56
5	29	0					0	57	80	115	112	57
6	29	0					0	59	75	114	105	57
7	29	0					0	56	73	116	110	61
8	32	0					20	57	66	116	98	64
9	37						19	57	69	114	96	66
10	35						31	55	68	112	97	65
11	35						35	56	66	113	98	55
12	34						34	55	67	118	117	51
13	33					0	37	53	72	121	116	50
14	34					0	40	49	74	115	107	50
15	32					0	40	44	75	109	107	50
16	31					0	40	33	78	106	101	50
17	31					0	38	30	79	110	97	49
18	33					0	37	29	77	110	88	47
19	34					0	40	34	84	109	78	49
20	34					0	43	44	92	109	80	47
21	34					0	42	50	76	110	81	45
22	35					0	39	57	80	112	93	44
23	29					0	41	57	101	111	88	42
24	29					0	41	59	111	114	80	42
25	35					0	41	61	108	112	74	42
26	34					0	42	61	106	114	74	40
27	35					0	45	62	102	112	75	40
28	35					0	44	62	97	108	83	40
29	35					0	47	63	93	111	72	43
30	34					0	50	63	97	113	56	40
31	33	-----				0	-----	72	-----	115	50	-----
TOTAL	1,008	9.7				0	886	1,652	2,481	3,472	2,899	1,491
MEAN	32.5	1.21				0	29.5	53.3	82.7	112	93.5	49.7
MAX	37	9.7				0	50	72	111	121	122	66
MIN	29	0				0	0	29	66	100	50	40
AC-FT	2,000	19				0	1,760	3,280	4,920	6,890	5,750	2,960
CAL YEAR 2001	MAX	99	MIN	0	AC-FT	22,650						
WTR YEAR 2002	MAX	122	MIN	0	AC-FT	27,570						



# NORTH PLATTE RIVER BASIN

**GERING CREEK near Gering, 06681500 - 2002**

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 fair.

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 940 cubic feet per second August 5, gage height 6.46 feet; minimum daily discharge 18 cubic feet per second March 26, April 2-4, 13, May 18-20, 25, 27-29.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	27	27	23	21	21	19	21	19	44	67	32
2	35	26	28	22	21	19	18	21	20	42	75	31
3	34	24	28	24	21	20	18	20	20	41	90	29
4	34	21	28	25	21	21	18	20	33	45	80	29
5	37	23	28	24	21	21	19	20	22	43	183	29
6	33	25	28	24	21	21	19	20	20	41	140	28
7	33	26	27	25	21	21	19	21	20	41	92	28
8	32	26	27	26	22	20	20	22	20	41	89	28
9	32	26	27	25	22	19	20	21	19	40	90	30
10	33	27	26	23	21	20	20	21	19	42	91	28
11	31	27	26	23	22	20	21	21	19	45	89	28
12	30	28	25	23	21	20E	22	21	20	44	88	30
13	29	28	26	24	21	21E	22	20	19	47	84	27
14	29	27	26	23	22	22	22	20	19	51	79	26
15	29	27	25	23	21	21	22	19	19	48	73	26
16	28	28	25	22	21	21	23	19	19	49	67	25
17	28	28	25	22	22	20	22	19	19	49	66	25
18	27	28	25	22	22	20	55	18	19	50	71	25
19	27	27	25	22	22	20	76	18	19	51	69	56
20	27	28	24	23	21	21	45	18	33	51	66	101
21	26	28	25	23	21	20	43	20	61	53	63	104
22	25	28	25	23	22	20	35	23	45	58	60	124
23	25	29	23	23	22	21	27	20	109	56	61	97
24	25	29	24	23	21	21	20	19	86	69	74	71
25	24	28	24	23	21	19	20	18	47	67	79	68
26	24	28	25	22	20	18	20	19	38	71	84	65
27	24	26	25	22	21	19	20	18	34	69	108	48
28	24	26	24	21	21	19	20	18	42	69	168	33
29	25	27	24	21	-----	19	19	18	45	71	87	30
30	28	28	24	21	-----	19	19	19	45	71	51	31
31	28	-----	23	21	-----	19	-----	19	-----	71	31	-----
TOTAL	901	804	792	711	596	623	763	611	969	1,630	2,615	1,332
MEAN	29.1	26.8	25.5	22.9	21.3	20.1	25.4	19.7	32.3	52.6	84.4	44.4
MAX	37	29	28	26	22	22	76	23	109	71	183	124
MIN	24	21	23	21	20	18	18	18	19	40	31	25
AC-FT	1,790	1,590	1,570	1,410	1,180	1,240	1,510	1,210	1,920	3,230	5,190	2,640
CAL YEAR 2001	TOTAL	26,456	MEAN	72.5	MAX	921	MIN	18	AC-FT	52,480		
WTR YEAR 2002	TOTAL	12,347	MEAN	33.8	MAX	183	MIN	18	AC-FT	24,490		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

## CASTLE ROCK - STEAMBOAT CANAL from North Platte River, 00021000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	47	57	80	81	60
2							0	50	58	81	80	53
3							0	53	59	81	82	48
4							0	53	72	86	81	58
5							0	52	65	93	78	65
6							0	51	63	92	70	68
7							0	55	62	94	62	71
8							0	56	65	88	74	67
9							0	63	68	85	74	66
10							0	68	62	83	72	65
11							0	71	55	82	73	65
12							0	69	54	82	75	64
13							0	67	51	86	76	58
14							0	65	52	80	73	58
15							0	73	57	83	77	58
16							0	81	68	91	78	59
17							0	82	80	93	75	58
18							0	82	74	84	74	57
19							0	79	67	84	73	58
20							0	77	79	89	71	57
21							12E	76	86	83	72	58
22							17	58	74	78	76	57
23							16	67	89	75	70	56
24							16	71	83	76	72	55
25							15	72	79	80	75	57
26							25	66	80	83	74	59
27							33	64	77	82	75	60
28							32	67	65	83	69	63
29					-----		32	70	68	82	71	62
30					-----		43	69	71	82	66	56
31		-----			-----		-----	64	-----	84	60	-----
TOTAL							241	2,038	2,040	2,605	2,279	1,796
MEAN							8.03	65.7	68.0	84.0	73.5	59.9
MAX							43	82	89	94	82	71
MIN							0	47	51	75	60	48
AC-FT							478	4,040	4,050	5,170	4,520	3,560
CAL YEAR 2001	MAX	93	MIN	0	AC-FT	18,690						
WTR YEAR 2002	MAX	94	MIN	0	AC-FT	21,820						

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

**NORTH PLATTE RIVER near Minatare, 06682000 - 2002**

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 1,190 cubic feet per second October 1, combined channel discharge; minimum daily discharge 69 cubic feet per second June 19, combined channel discharge.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,150	847	760	727E	562E	544E	495	252	94	92	177	327
2	1,130	845	762	728E	564	548E	471	249	92	108	179	301
3	1,110	839	764	726E	561	547E	475	243	95	131	214	284
4	1,080	840	764	708	560	542E	480	232	114	170	222	264
5	1,100	840	744	708	557	549	482	231	107	218	257	254
6	1,090	836	735	708	550	552	480	220	107	216	712	251
7	1,070	833	721	710	558	557	478	207	103	211	526	241
8	1,040	819	726	711	557	556E	462	206	110	196	412	237
9	1,010	814	730	712	553	556E	472	203	124	173	338	243
10	1,030	812	732	701	553E	565E	453	203	122	162	303	239
11	1,020	812	724	693	553	565	446	201	113	156	280	240
12	984	812	716	691	549	561	443	202	107	151	244	267
13	969	807	715	688	555	559	443	202	88	162	238	271
14	948	803	722	676	556	569	441	196	82	150	235	269
15	939	798	722	670	548	553	428	188	75	142	221	262
16	935	794	723	662	548	551	410	171	74	136	221	259
17	930	794	724	671	549	552	415	169	79	163	212	251
18	915	781	728	677	543	549	410	168	72	166	216	247
19	905	770	737	665	533	547	383	158	69	163	218	308
20	891	767	735	653	532	548	379	147	75	164	215	403
21	877	773	736	643	528	541	371	147	90	168	214	390
22	882	769	737	639	532	544	348	174	93	185	232	399
23	881	772	721E	625	534	536	316	159	126	172	230	401
24	859	769	719	607E	534	529	282	141	250	177	237	374
25	846	763	718	609	532E	527E	274	134	215	172	239	377
26	844	759	716	601	536E	531	271	127	192	179	239	356
27	847	740	716	600	539E	529	274	119	151	224	252	340
28	848	768	716	593	544E	516	276	117	113	204	425	351
29	838	766	710E	585	-----	507	273	112	95	209	377	574
30	833	759	715	583	-----	507	257	107	90	205	465	802
31	835	-----	733E	573E	-----	500	-----	101	-----	197	364	-----
TOTAL	29,636	23,901	22,621	20,543	15,320	16,837	11,888	5,486	3,317	5,322	8,914	9,782
MEAN	956	797	730	663	547	543	396	177	111	172	288	326
MAX	1,150	847	764	728	564	569	495	252	250	224	712	802
MIN	833	740	710	573	528	500	257	101	69	92	177	237
AC-FT	58,780	47,410	44,870	40,750	30,390	33,400	23,580	10,880	6,580	10,560	17,680	19,400

CAL YEAR 2001	TOTAL	269,661	MEAN	739	MAX	2,740	MIN	324	AC-FT	534,900
WTR YEAR 2002	TOTAL	173,567	MEAN	476	MAX	1,150	MIN	69	AC-FT	344,300

E indicates estimated discharge.

## NORTH PLATTE RIVER BASIN

## NINE MILE CANAL from North Platte River, 00106000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10						0	26	28	2.3	17	23
2	10						0	27	27	2.0	21	23
3	8.7						0	26	27	3.9	16	23
4	.02						0	26	32	4.4	.35	23
5	0						0	29	31	4.3	.57	21
6	0						0	29	30	2.2	17	21
7	0						0	28	29	4.4	31	19
8	0						0	29	29	3.2	29	15
9	0						0	28	29	2.7	27	26
10	0						0	27	24	4.3	26	26
11							0	27	21	4.6	28	26
12							0	27	19	4.9	27	28
13							0	27	16	6.6	26	28
14							0	27	16	4.7	27	28
15							.01	27	13	3.1	25	27
16							3.5	24	13	3.0	23	27
17							9.6	25	14	5.7	22	27
18							17	24	13	5.9	22	26
19							17	23	13	5.1	22	27
20							17	22	13	3.8	22	30
21						0	16	23	13	4.0	21	30
22						0	15	23	11	3.2	22	29
23						0	20	22	25	3.2	22	29
24						0	29	25	45	2.1	22	27
25						0	29	40	41	2.4	24	27
26						0	29	37	39	2.0	22	27
27						0	29	36	18	1.3	23	26
28						0	29	35	2.3	1.2	27	26
29					-----	0	28	34	2.7	1.3	26	29
30					-----	0	27	33	2.2	1.0	27	30
31		-----			-----	0	-----	31	-----	8.0	24	-----
TOTAL	28.72					0	315.11	867	636.2	110.8	688.92	774
MEAN	2.87					0	10.5	28.0	21.2	3.57	22.2	25.8
MAX	10					0	29	40	45	8.0	31	30
MIN	0					0	0	22	2.2	1.0	.35	15
AC-FT	57					0	625	1,720	1,260	220	1,370	1,540
CAL YEAR 2001	MAX	36	MIN	0	AC-FT	6,440						
WTR YEAR 2002	MAX	45	MIN	0	AC-FT	6,790						

# NORTH PLATTE RIVER BASIN

**NINE MILE CANAL from Ninemile Creek, 00106100 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42						2.2	29	48	0	58	51
2	41						5.6	28	47	0	60	52
3	28						8.4	27	46	0	36	52
4	0						12	29	50	0	3.3	50
5	0						9.3	29	51	0	.49	49
6	0						6.2	26	48	0	25	48
7	0						6.1	26	49	0	49	47
8	0						5.9	25	64	0	51	47
9	0						6.0	30	65	0	53	52
10	0						6.1	40	62	0	55	50
11							8.6	41	55	0	54	51
12							23	41	49	0	53	47
13							19	41	48	0	53	43
14							16	42	48	0	53	45
15							14	41	50	0	53	36
16							12	44	64	0	54	27
17							11	43	53	0	57	29
18							9.8	40	50	0	58	32
19							8.3	40	50	0	57	32
20							5.7	41	50	0	57	31
21						0	4.0	42	51	0	56	31
22						0	11	44	53	0	53	31
23						0	17	42	35	0	51	30
24						0	25	43	43	0	51	31
25						0	33	43	41	0	52	30
26						0	34	42	41	0	51	30
27						0	36	42	21	0	49	31
28						0	30	45	0	0	51	30
29					-----	0	21	45	0	9.4	51	29
30					-----	0	23	46	0	31	52	27
31		-----			-----	0	-----	48	-----	51	51	-----
TOTAL	111					0	429.2	1,185	1,332	91.4	1,507.79	1,171
MEAN	11.1					0	14.3	38.2	44.4	2.95	48.6	39.0
MAX	42					0	36	48	65	51	60	52
MIN	0					0	2.2	25	0	0	.49	27
AC-FT	220					0	851	2,350	2,640	181	2,990	2,320
CAL YEAR 2001	MAX	60	MIN	0	AC-FT	14,720						
WTR YEAR 2002	MAX	65	MIN	0	AC-FT	11,560						

# NORTH PLATTE RIVER BASIN

## NINE MILE CREEK near McGrew, 06682500 - 2002

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.

EXTREMES FOR CURRENT YEAR.--Peak discharge 337 cubic feet per second August 5, gage height 3.90 feet; minimum daily discharge 20 cubic feet per second May 31.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	107	87	70	66	62	52	37	25	82	52	75
2	128	103	86	69	66	60	51	37	25	84	49	73
3	128	100	86	70	66	60	47	39	23	82	80	70
4	146	98	86	70	65	60	44	31	32	86	106	65
5	149	97	85	69	65	62	45	34	36	81	131	59
6	143	95	85	68	66	61	48	38	30	87	123	58
7	140	93	85	69	66	61	50	40	36	92	77	55
8	141	90	86	71	66	60	51	42	99	95	78	50
9	140	89	86	71	64	60	52	39	116	94	80	69
10	140	88	84	69	65	62	52	31	99	95	77	65
11	134	87	84	69	65	62	51	31	54	96	73	63
12	131	88	82	70	64	63	41	30	28	98	71	63
13	131	88	82	71	64	62	41	26	25	103	68	66
14	128	87	82	70	64	63	44	23	29	107	65	63
15	126	87	81	70	64	62	45	21	35	99	60	62
16	123	88	80	70	64	61	48	22	88	101	61	65
17	122	89	80	69	66	61	51	24	36	97	60	68
18	120	88	78	69	66	61	51	21	26	94	63	70
19	121	89	79	69	66	61	53	20	28	93	58	76
20	121	90	79	68	65	61	54	21	30	92	56	78E
21	120	91	79	69	64	60	51	23	34	102	56	80E
22	121	90	76	65	64	61	45	23	30	109	50	82E
23	120	89	75	67	64	61	36	21	46	106	48	84E
24	116	88	75	68	62	58	35	22	48	109	53	86E
25	116	87	75	68	61	56	34	27	46	107	57	86E
26	115	87	75	68	62	54	31	28	43	111	56	86E
27	115	87	75	67	61	56	31	27	64	111	55	86E
28	116	87	74	66	62	54	33	24	83	110	70	86E
29	114	87	73	67	-----	54	43	21	80	103	74	86E
30	113	87	72	67	-----	55	41	22	80	76	83	88E
31	111	-----	71	66	-----	55	-----	20	-----	59	79	-----
TOTAL	3,920	2,721	2,483	2,129	1,803	1,849	1,351	865	1,454	2,961	2,169	2,163
MEAN	126	90.7	80.1	68.7	64.4	59.6	45.0	27.9	48.5	95.5	70.0	72.1
MAX	149	107	87	71	66	63	54	42	116	111	131	88
MIN	111	87	71	65	61	54	31	20	23	59	48	50
AC-FT	7,780	5,400	4,930	4,220	3,580	3,670	2,680	1,720	2,880	5,870	4,300	4,290
CAL YEAR 2001	TOTAL	35,266	MEAN	96.6	MAX	279	MIN	29	AC-FT	69,950		
WTR YEAR 2002	TOTAL	25,868	MEAN	70.9	MAX	149	MIN	20	AC-FT	51,310		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

**SHORT LINE CANAL from North Platte River, 00133000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11						0	33	19	1.5	40	37
2	0						0	33	22	0	38	35
3	0						0	34	18	0	44	33
4	0						0	26	27	0	42	36
5							0	27	29	0	26	37
6							0	30	25	0	26	36
7							0	33	30	0	47	33
8							0	35	50	0	42	30
9							0	34	39	0	45	47
10							0	24	45	0	43	41
11							0	25	44	0	39	35
12							0	25	27	0	39	34
13							0	23	23	0	39	36
14							0	18	28	0	42	35
15							0	17	28	0	39	33
16							0	18	52	0	42	34
17							0	20	32	23	42	36
18							0	19	24	47	44	38
19							0	18	24	47	41	41
20							0	18	25	47	38	40
21							0	19	28	47	38	40
22							0	19	26	39	35	37
23						0	8.3	19	33	0	37	36
24						0	22	19	38	0	39	37
25						0	27	24	37	0	42	37
26						0	28	25	37	0	34	34
27						0	29	23	16	0	34	29
28						0	29	22	3.2	21	48	28
29					-----	0	37	17	2.5	42	41	29
30					-----	0	36	17	2.7	45	42	29
31		-----			-----	0	-----	16	-----	35	39	-----
TOTAL	11					0	216.3	730	834.4	394.5	1,227	1,063
MEAN	2.75					0	7.21	23.5	27.8	12.7	39.6	35.4
MAX	11					0	37	35	52	47	48	47
MIN	0					0	0	16	2.5	0	26	28
AC-FT	22					0	429	1,450	1,660	782	2,430	2,110
CAL YEAR 2001	MAX	49	MIN	0	AC-FT	7,560						
WTR YEAR 2002	MAX	52	MIN	0	AC-FT	8,880						

# NORTH PLATTE RIVER BASIN

## CHIMNEY ROCK CANAL from North Platte River, 00024000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22						0	68	60	61	78	30
2	23						0	35	61	46	79	39
3	21						0	32	59	7.7	80	33
4	22						0	30	60	7.7	68	32
5	26						0	26	62	30	67	40
6	26						0	24	61	57	71	36
7	27						0	22	61	32	67	35
8	24						0	38	63	72	69	40
9	22						0	44	64	80	69	29
10	23						0	56	58	83	64	30
11	24						0	58	57	85	59	52
12	23						0	55	61	56	63	44
13	23						0	53	59	37	63	33
14	22						0	52	60	39	59	28
15	23						0	60	60	52	57	36
16	20						0	60	61	78	58	37
17	18						14	61	62	92	59	37
18	16						12	62	62	92	63	37
19	15						17	59	62	89	62	42
20	15						22	58	62	89	60	45
21	15						22	56	61	84	59	43
22	15					0	27	34	62	79	61	42
23	15					0	32	56	62	72	64	35
24	15					0	26	56	65	74	62	36
25	15					0	29	60	63	77	77	38
26	16					0	30	63	62	70	64	34
27	13					0	32	62	60	75	59	31
28	8.8					0	33	62	61	65	60	27
29	3.1E				-----	0	30	65	59	73	39	34
30					-----	0	31	63	61	78	44	35
31		-----			-----	0	-----	61	-----	76	38	-----
TOTAL	550.9					0	357	1,591	1,831	2,008.4	1,942	1,090
MEAN	19.0					0	11.9	51.3	61.0	64.8	62.6	36.3
MAX	27					0	33	68	65	92	80	52
MIN	3.1					0	0	22	57	7.7	38	27
AC-FT	1,090					0	708	3,160	3,630	3,980	3,850	2,160
CAL YEAR 2001	TOTAL*	6,739.4	MEAN	22.3	MAX	89	MIN	0	AC-FT	13,370		
WTR YEAR 2002	TOTAL*	9,370.3	MEAN	42.2	MAX	92	MIN	0	AC-FT	18,590		

E indicates estimated discharge.



# NORTH PLATTE RIVER BASIN

**ALLIANCE CANAL from Bayard Creek, 00002000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16						7.7	20	17	0	19	31
2	14						15	21	16	0	19	30
3	14						13	20	17	0	20	29
4	8.7						15	20	19	0	19	29
5							15	19	21	0	19	29
6							15	18	22	0	24	29
7							15	18	20	0	22	28
8							15	20	21	0	24	27
9							16	21	23	0	25	27
10							16	19	24	0	24	28
11							16	19	23	0	25	27
12							16	19	23	0	24	28
13							19	19	21	0	24	27
14						0	19	22	21	0	24	27
15						0	19	22	21	0	24	27
16						0	19	22	23	8.6	24	27
17						0	19	21	23	13	25	26
18						0	21	21	23	14	26	26
19						0	19	19	23	15	26	27
20						0	18	19	23	15	25	27
21						0	18	19	22	16	24	28
22						0	18	20	23	17	25	29
23						0	20	19	26	0	26	28
24						0	21	20	16	0	26	27
25						0	19	19	24	0	27	27
26						0	19	20	25	0	27	26
27						0	21	19	12	8.2	27	26
28						0	21	19	0	18	30	26
29						0	20	21	0	18	30	26
30						0	18	20	0	20	33	27
31		-----			-----	0	-----	19	-----	20	31	-----
TOTAL	52.7					0	522.7	614	572	182.8	768	826
MEAN	13.2					0	17.4	19.8	19.1	5.90	24.8	27.5
MAX	16					0	21	22	26	20	33	31
MIN	8.7					0	7.7	18	0	0	19	26
AC-FT	105					0	1,040	1,220	1,130	363	1,520	1,640
CAL YEAR 2001	MAX	38	MIN	0	AC-FT	7,530						
WTR YEAR 2002	MAX	33	MIN	0	AC-FT	7,020						

# NORTH PLATTE RIVER BASIN

## ALLIANCE CANAL from Red Willow Creek, 00003000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7						0	18	16	0	22	25
2	7.6						0	18	16	0	21	27
3	4.0						0	18	16	0	20	27
4	5.2						0	19	18	0	20	29
5	7.2						0	19	17	0	21	30
6	15						0	19	16	0	30	31
7	19						0	19	8.9	0	26	29
8	13						0	20	27	0	29	28
9	3.4						0	19	30	0	26	30
10	0						0	19	30	0	23	33
11	0						0	19	33	0	23	32
12							0	19	30	0	23	33
13						0	0	18	28	0	22	30
14						0	0	18	36	0	20	30
15						0	0	22	39	0	21	29
16						0	0	25	46	12	20	29
17						0	0	25	42	16	19	28
18						0	0	24	43	15	21	28
19						0	0	21	32	20	21	27
20						0	0	19	34	23	21	27
21						0	0	17	34	27	22	27
22						0	.05	.01	33	28	22	27
23						0	12	7.4	34	2.4	21	27
24						0	19	17	36	0	21	27
25						0	21	18	29	0	22	27
26						0	20	16	31	0	22	26
27						0	21	16	20	11	20	26
28						0	18	16	9.6	42	31	25
29					-----	0	18	16	2.8	33	26	25
30					-----	0	18	16	0	28	24	25
31		-----			-----	0	-----	16	-----	25	22	-----
TOTAL	83.1					0	147.05	553.41	787.3	282.4	702	844
MEAN	7.55					0	4.90	17.9	26.2	9.11	22.6	28.1
MAX	19					0	21	25	46	42	31	33
MIN	0					0	0	.01	0	0	19	25
AC-FT	165					0	292	1,100	1,560	560	1,390	1,670
CAL YEAR 2001	MAX	54	MIN	0	AC-FT	8,380						
WTR YEAR 2002	MAX	46	MIN	0	AC-FT	6,740						

# NORTH PLATTE RIVER BASIN

**BAYARD CREEK near Bayard, 06683000 - 2002**

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, except 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 145 cubic feet per second October 4, gage height 2.38 feet; minimum daily discharge 1.4 cubic feet per second July 17 & 18.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	20	21	17	17	18	11	11	5.7	17	4.6	19
2	34	21	20	17	17	18	8.6	14	5.4	17	4.5	16
3	32	22	21	17	17	18	8.9	9.1	5.7	17	4.7	14
4	31	22	21	17	17	19	12	8.4	8.4	17	3.4	13
5	40	22	20	17	17	19	11	7.5	11	18	3.3	14
6	35	23	20	17	17	18	8.7	6.3	11	18	9.7	14
7	33	21	21	17	18	17	7.8	7.0	8.9	16	4.6	11
8	29	22	20	18	18	15	7.5	9.8	11	16	7.1	9.9
9	27	23	20	18	18	15	7.3	13	16	16	8.2	10
10	28	23	21	17	18	15	7.2	9.5	20	16	7.1	11
11	24	22	20	17	18	14	6.9	7.6	14	19	9.2	11
12	23	23	20	17	18	14	8.7	6.7	14	19	8.6	14
13	23	23	19	18	18	13	12	6.8	10	19	8.3	13
14	22	23	20	17	18	13	10	12	11	18	8.7	14
15	25	22	20	17	18	13	8.7	11	8.9	20	8.1	14
16	24	23	19	17	19	13	8.1	12	13	10	8.4	13
17	25	23	20	17	19	13	7.6	10	15	1.4	8.8	10
18	24	21	20	16	19	13	10	9.8	14	1.4	13	11
19	24	19	19	16	19	14	7.7	7.9	15	1.5	11	15
20	24	20	19	17	20	13	6.2	7.5	15	1.5	6.9	17
21	23	21	19	17	20	13	5.9	8.4	13	2.0	6.1	21
22	24	21	18	17	21	14	6.1	10	12	7.1	7.4	26
23	24	20	15	17	21	14	8.9	8.6	9.5	22	8.4	24
24	21	20	15	17	21	14	12	9.3	8.1	29	9.3	22
25	22	19	16	18	20	16	8.6	9.6	7.3	25	9.9	20
26	22	20	20	18	19E	21	8.7	10	10	20	9.4	18
27	23	20	20	18	19	17	11	8.5	21	8.9	11	15
28	23	18	19	17	19	16	14	8.9	24	3.1	20	14
29	23	20	17	17	-----	16	10	11	22	2.7	18	14
30	22	20	18	17	-----	16	6.3	9.7	20	3.6	30	15
31	22	-----	17	17	-----	16	-----	7.1	-----	4.8	21	-----
TOTAL	821	637	595	531	520	478	267.4	288.0	379.9	407.0	298.7	452.9
MEAN	26.5	21.2	19.2	17.1	18.6	15.4	8.91	9.29	12.7	13.1	9.64	15.1
MAX	45	23	21	18	21	21	14	14	24	29	30	26
MIN	21	18	15	16	17	13	5.9	6.3	5.4	1.4	3.3	9.9
AC-FT	1,630	1,260	1,180	1,050	1,030	948	530	571	754	807	592	898
CAL YEAR 2001 TOTAL		10,643.60	MEAN	29.2	MAX	185	MIN	2.3	AC-FT	21,110		
WTR YEAR 2002 TOTAL		5,675.90	MEAN	15.6	MAX	45	MIN	1.4	AC-FT	11,260		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

## RED WILLOW CREEK near Bayard, 06684000 - 2002

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.

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 316 cubic feet per second June 8, gage height 3.18 feet; minimum daily discharge 24 cubic feet per second April 30.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	80	76	62	59	54	48	26	32	59	35	55
2	121	79	76	61	59	53	57	31	31	58	37	42
3	120	78	77	61	59	52	55	43	30	59	40	45
4	114	77	76	60	58	51	52	48	30	63	42	51
5	110	77	75	60	59	50	54	49	29	63	40	48
6	104	76	76	61	58	49	55	35	34	64	52	45
7	104	75	75	61	57	49	54	36	202	66	45	46
8	107	75	75	62	58	50	56	36	268	66	59	46
9	106	76	75	61	56	49	55	32	218	65	53	53
10	108	76	75	61	57	49	49	41	184	67	44	56
11	105	76	75	61	57	48	51	38	139	67	51	55
12	102	76	74	62	58	48	56	33	65	69	50	58
13	102	77	73	60	57	49	57	34	47	73	35	65
14	102	76	74	60	58	49	50	35	58	82	35	66
15	102	76	73	61	56	48	46	32	80	84	32	65
16	103	76	73	60	57	48	46	33	95	59	31	63
17	101	77	73	60	58	48	45	34	59	35	30	59
18	99	77	73	60	59	47	48	35	51	36	30	59
19	97	77	73	59	58	48	49	34	36	35	30	57
20	96	77	71	59	61	48	49	33	40	37	29	63
21	94	76	72	60	61	48	50	38	50	47	28	58
22	93	76	69	60	62	48	47	66	50	54	30	58
23	91	76	68	60	62	49	39	42	47	77	31	60
24	89	76	67	59	61	49	45	36	49	77	33	57
25	88	76	65	60	59	51	37	39	38	72	31	57
26	87	77	64	60	56	50	28	31	32	72	29	55
27	86	76	64	59	56	49	36	28	50	56	27	53
28	85	76	65	60	55	48	25	29	66	38	40	49
29	83	76	63	60	-----	48	25	34	62	35	41	46
30	83	76	63	59	-----	48	24	40	59	37	59	44
31	82	-----	63	59	-----	48	-----	38	-----	36	57	-----
TOTAL	3,089	2,295	2,211	1,868	1,631	1,523	1,388	1,139	2,231	1,808	1,206	1,634
MEAN	99.6	76.5	71.3	60.3	58.3	49.1	46.3	36.7	74.4	58.3	38.9	54.5
MAX	125	80	77	62	62	54	57	66	268	84	59	66
MIN	82	75	63	59	55	47	24	26	29	35	27	42
AC-FT	6,130	4,550	4,390	3,710	3,240	3,020	2,750	2,260	4,430	3,590	2,390	3,240
CAL YEAR 2001	TOTAL	36,354	MEAN	99.6	MAX	391	MIN	42	AC-FT	72,110		
WTR YEAR 2002	TOTAL	22,023	MEAN	60.3	MAX	268	MIN	24	AC-FT	43,680		

# NORTH PLATTE RIVER BASIN

**BELMONT CANAL from North Platte River, 00009000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29						28	52	54	84	91	54
2	27						31	51	53	71	94	52
3	27						37	46	64	89	98	47
4	24						51	50	64	75	95	36
5	16						22	52	95	82	95	29
6	16						26	47	94	76	92	49
7	16						31	52	92	78	84	65
8	12						32	60	89	77	91	64
9	0						33	64	111	87	97	66
10	0						33	67	81	92	104	78
11							34	70	89	90	104	76
12							34	70	82	81	102	81
13							37	68	78	76	100	84
14							39	65	72	72	100	85
15							45	63	68	68	100	84
16						9.0	47	57	85	101	102	83
17						11	46	63	86	104	103	84
18						11	43	71	86	100	101	84
19						24	20	69	84	102	104	84
20						33	20	66	81	101	102	85
21						34	19	60	84	103	100	75
22						35	21	83	87	110	104	67
23						34	32	82	86	112	104	63
24						33	41	75	96	109	98	54
25						33	46	70	90	104	58	69
26						33	52	61	88	103	96	76
27						33	51	56	98	104	97	75
28						31	51	53	101	109	93	75
29					-----	29	49	54	91	96	92	76
30					-----	28	49	50	100	102	79	73
31		-----			-----	27	-----	58	-----	105	56	-----
TOTAL	167					438.0	1,100	1,905	2,529	2,863	2,936	2,073
MEAN	16.7					27.4	36.7	61.5	84.3	92.4	94.7	69.1
MAX	29					35	52	83	111	112	104	85
MIN	0					9.0	19	46	53	68	56	29
AC-FT	331					869	2,180	3,780	5,020	5,680	5,820	4,110
CAL YEAR 2001	MAX	121	MIN	0	AC-FT	24,350						
WTR YEAR 2002	MAX	112	MIN	0	AC-FT	27,790						

## NORTH PLATTE RIVER BASIN

## BELMONT CANAL from Cedar Creek, 00010000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	3.2	3.2	2.8	0
2							0	0	3.2	2.4	3.1	0
3							0	0	3.0	2.6	2.6	0
4							0	0	3.0	2.4	2.6	0
5							0	0	3.0	2.5	2.7	0
6							0	0	2.6	3.7	2.7	0
7							0	0	2.4	3.1	3.1	1.8
8							0	0	1.6	2.9	2.7	2.9
9							0	0	1.9	2.7	3.5	3.8
10							0	2.2	2.6	2.1	2.8	4.2
11							0	5.3	3.4	2.0	3.2	4.2
12							0	5.0	3.4	2.0	3.1	4.3
13							0	4.8	2.6	2.1	3.1	4.3
14							0	4.5	1.8	2.6	3.5	4.4
15							0	4.2	2.2	3.0	3.9	4.3
16							0	5.0	2.9	2.6	3.3	4.4
17							0	4.7	2.4	2.7	3.1	4.4
18							0	5.4	2.3	2.5	3.3	4.4
19							0	5.6	3.4	2.7	3.3	3.8
20							0	5.1	3.7	3.3	3.5	2.8
21							0	4.8	3.6	2.9	4.4	.19
22						0	0	4.7	2.4	3.7	4.5	0
23						0	0	4.2	2.1	4.0	3.5	0
24						0	0	4.9	2.1	3.3	2.0E	0
25						0	0	4.8	2.4	2.8	0	0
26						0	0	4.4	2.5	2.8	0	0
27						0	0	4.3	2.5	2.7	0	0
28						0	0	3.9	2.7	3.3	0	0
29					-----	0	0	3.0	2.9	3.7	0	0
30					-----	0	0	2.6	2.4	3.3	0	0
31		-----			-----	0	-----	2.5	-----	3.1	0	-----
TOTAL						0	0	95.9	80.2	88.7	76.3	54.19
MEAN						0	0	3.09	2.67	2.86	2.46	1.81
MAX						0	0	5.6	3.7	4.0	4.5	4.4
MIN						0	0	0	1.6	2.0	0	0
AC-FT						0	0	190	159	176	151	107
CAL YEAR 2001 MAX		4.8	MIN	0	AC-FT	751						
WTR YEAR 2002 MAX		5.6	MIN	0	AC-FT	784						

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

**EMPIRE CANAL from North Platte River, 00039000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20						0	26	22	16	24	1.4
2	20						0	27	20	0	25	1.2
3	19						0	29	6.1	0	16	1.2
4	9.9						0	35	19	0	.71	6.9
5	2.0E						0	33	33	0	26	12
6	1.0E						0	30	30	0	20	21
7	1.0E						0	30	29	0	11	25
8	0						0	31	27	9.8	18	25
9	0						0	32	30	24	18	16
10	0						0	28	25	29	16	5.0
11	0						0	23	27	29	16	4.9
12							0	23	24	13	14	4.9
13							0	24	24	0	8.8	4.8
14							0	25	24	0	4.4	4.7
15							0	26	22	0	3.0	4.5
16							0	24	27	9.4	2.7	4.4
17							0	26	28	22	2.4	4.2
18							0	27	29	32	2.4	4.2
19							0	26	29	33	2.4	4.2
20						0	0	26	24	30	2.3	4.2
21						0	0	25	24	30	13	4.1
22						0	0	23	31	34	15	3.9
23						0	0	21	30	24	22	3.9
24						0	6.0	24	29	1.4	30	3.6
25						0	18	28	26	1.2	24	3.6
26						0	20	26	26	1.1	28	3.8
27						0	22	21	27	17	28	3.8
28						0	22	21	27	31	14	3.8
29					-----	0	23	23	27	27	2.3	3.8
30					-----	0	25	22	27	29	1.8	3.7
31		-----			-----	0	-----	23	-----	29	1.4	-----
TOTAL	72.9					0	136.0	808	773.1	471.9	412.61	197.7
MEAN	6.63					0	4.53	26.1	25.8	15.2	13.3	6.59
MAX	20					0	25	35	33	34	30	25
MIN	0					0	0	21	6.1	0	.71	1.2
AC-FT	145					0	270	1,600	1,530	936	818	392
CAL YEAR 2001	MAX	25	MIN	0	AC-FT	3,280						
WTR YEAR 2002	MAX	35	MIN	0	AC-FT	5,700						

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at Bridgeport, 06684500 - 2002

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 poor.

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 1,510 cubic feet per second October 5, combined flow for both channels; minimum daily discharge 108 cubic feet per second June 2, combined flow for both channels.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,450	1,220	1,050	961	1,000	821	689	359	115	186	171	636
2	1,440	1,210	1,080	919	1,000	774	639	357	108	204	156	528
3	1,410	1,190	1,080	936	1,010	755	634	337	111	206	160	514
4	1,430	1,180	1,070	953	1,010	762	599	311	132	263	257	503
5	1,490	1,150	1,040	964	1,000	760	626	297	113	281	289	456
6	1,490	1,160	1,020	975	1,010	773	641	290	111	303	500	417
7	1,470	1,150	1,020	980	996	768	649	273	164	303	563	358
8	1,450	1,130	1,010	968	992	769	659	260	258	296	487	344
9	1,420	1,090	1,000	982	986	751	672	253	258	256	431	348
10	1,450	1,080	995	993	956	760	695	249	312	226	414	350
11	1,470	1,060	980	1,000	926	775	719	246	284	211	416	362
12	1,450	1,040	958	1,010	893	754	719	225	222	237	390	400
13	1,430	1,030	950	998	888	751	698	219	192	298	344	446
14	1,410	1,010	987	957	892	768	705	206	172	317	334	472
15	1,380	1,030	1,000	923	894	778	696	195	191	333	315	481
16	1,330	1,050	1,010	925	903	776	669	195	202	277	290	466
17	1,270	1,060	1,010	906	904	772	645	189	182	206	252	450
18	1,240	1,070	1,020	878	903	756	640	170	164	175	248	432
19	1,240	1,080	1,020	879	880	738	642	159	133	161	243	422
20	1,260	1,090	1,020	912	870	712	644	150	120	147	241	481
21	1,260	1,090	1,010	950	845	695	646	150	117	158	239	516
22	1,270	1,080	1,020	978	834	710	615	176	120	215	240	526
23	1,270	1,060	999	978	846	721	541	141	126	260	244	548
24	1,250	1,060	1,010	976	844	728	432	131	122	284	254	565
25	1,240	1,050	1,020	987	820	722	366	143	196	291	307	509
26	1,250	1,040	1,010	990	780E	716	348	134	168	296	285	488
27	1,260	1,010	1,000	992	800E	711	344	127	128	273	318	484
28	1,270	990	994	989	800E	691	354	125	155	258	472	475
29	1,260	998	980	995	-----	717	342	122	164	229	504	524
30	1,250	1,040	998	993	-----	731	372	132	165	218	593	705
31	1,240	-----	980	999	-----	714	-----	129	-----	186	624	-----
TOTAL	41,800	32,498	31,341	29,846	25,482	23,129	17,640	6,450	5,005	7,554	10,581	14,206
MEAN	1,348	1,083	1,011	963	910	746	588	208	167	244	341	474
MAX	1,490	1,220	1,080	1,010	1,010	821	719	359	312	333	624	705
MIN	1,240	990	950	878	780	691	342	122	108	147	156	344
AC-FT	82,910	64,460	62,160	59,200	50,540	45,880	34,990	12,790	9,930	14,980	20,990	28,180
CAL YEAR 2001 TOTAL		374,697	MEAN	1,027	MAX	2,750	MIN	395	AC-FT	743,200		
WTR YEAR 2002 TOTAL		245,532	MEAN	673	MAX	1,490	MIN	108	AC-FT	487,000		

E indicates estimated discharge.



# NORTH PLATTE RIVER BASIN

**BROWNS CREEK CANAL from North Platte River, 00019000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8						0	4.8	79	44	108	54
2	5.0						0	12	79	70	101	53
3	2.2						0	35	83	85	105	47
4	2.2						0	26	91	76	113	43
5	2.2						0	26	84	85	100	41
6	2.2						0	26	83	51	102	37
7	2.2						0	35	84	48	97	44
8	2.1						0	41	81	49	101	52
9	2.1						0	44	78	61	99	53
10	0						0	47	83	79	88	51
11	0						0	51	80	78	89	48
12	0						0	52	76	64	87	50
13	0						0	54	81	49	85	48
14	0						0	57	79	50	87	47
15	0						0	62	77	49	88	48
16	0						0	66	68	70	88	46
17	0						0	65	67	91	87	44
18	0						0	63	72	101	87	44
19	0						0	63	76	103	88	44
20	0						0	62	79	101	88	48
21	0						0	47	83	106	88	47
22	0					0	0	26	88	109	91	46
23	0					0	0	53	89	51	89	46
24	0					0	0	58	88	50	86	46
25	0					0	0	67	94	51	67	45
26	0					0	0	72	84	52	71	45
27	0					0	0	73	48	74	79	44
28	0					0	0	72	7.0	102	52	43
29	0				-----	0	1.1	69	6.7	101	57	44
30	0				-----	0	3.9	80	9.6	104	58	47
31	0	-----			-----	0	-----	65	-----	106	58	-----
TOTAL	28.0					0	5.0	1,573.8	2,177.3	2,310	2,684	1,395
MEAN	.90					0	.17	50.8	72.6	74.5	86.6	46.5
MAX	7.8					0	3.9	80	94	109	113	54
MIN	0					0	0	4.8	6.7	44	52	37
AC-FT	56					0	9.9	3,120	4,320	4,580	5,320	2,770
CAL YEAR 2001	MAX	104	MIN	0	AC-FT	17,610						
WTR YEAR 2002	MAX	113	MIN	0	AC-FT	20,180						

## NORTH PLATTE RIVER BASIN

## COURTHOUSE ROCK CANAL from Pumpkin Creek, 00030000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0							0	1.3	.65	0	0
2	.95							0	1.4	1.2	0	0
3	.69							0	1.3	1.2	0	0
4	.56						0	0	1.3	1.1	0	0
5	.28						0	0	1.4	1.1	0	0
6	0						0	0	1.7	1.0	0	0
7	0						0	0	1.9	1.0	0	0
8	0						0	0	1.9	1.0	0	0
9	0						0	0	1.8	.99	0	0
10	0						0	0	1.8	.97	0	0
11	0						0	0	1.7	.50	0	0
12	0						0	0	1.5	0	0	0
13	0						0	.11	1.4	0	0	0
14	0						0	.11	1.8	0	0	0
15	0						0	.11	1.9	0	0	0
16	0						0	.11	1.6	0	0	0
17							0	.16	1.5	0	0	0
18							0	.17	1.4	0	0	0
19							0	.11	1.4	0	0	0
20							0	.13	1.3	0	0	0
21							0	.17	1.3	0	0	0
22							0	.13	1.3	0	0	0
23							0	.11	1.2	0	0	0
24							0	.11	1.2	0	.25	0
25							0	.11	1.1	0	0	0
26							0	.11	1.2	0	0	0
27							0	1.1	1.2	0	0	0
28							0	.86	1.1	0	0	0
29							0	1.3	1.1	0	0	0
30							0	1.2	.81	0	0	0
31		-----			-----		-----	1.3	-----	0	0	-----
TOTAL	3.48						0	7.51	42.81	10.71	0.25	0
MEAN	.22						0	.24	1.43	.35	.008	0
MAX	1.0						0	1.3	1.9	1.2	.25	0
MIN	0						0	0	.81	0	0	0
AC-FT	6.9						0	15	85	21	.5	0
CAL YEAR 2001	MAX	2.1	MIN	0	AC-FT	297						
WTR YEAR 2002	MAX	1.9	MIN	0	AC-FT	128						

# NORTH PLATTE RIVER BASIN

**LAST CHANCE CANAL from Pumpkin Creek, 00080000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	.50	0	0	0
2							0	0	.50	0	0	0
3							0	0	.50	0	0	0
4							0	0	.56	0	0	0
5							0	0	.68	0	0	
6							0	0	.73	0	0	
7							0	0	.70	.11	0	
8							0	0	.63	.75	0	
9							0	0	.41	.18	0	
10							0	0	.26	.02	0	
11							0	0	.31	0	0	
12							0	0	.21	0	0	
13							0	0	.05	0	0	
14							0	0	0	0	0	
15							0	0	0	0	0	
16							0	0	0	0	0	
17							0	0	0	0	0	
18							0	0	0	0	0	
19							0	0	0	0	0	
20							0	1.4	0	0	0	
21							0	2.6	0	0	0	
22							0	2.7	0	0	0	
23						0	0	2.4	0	0	0	
24						0	0	2.1	0	0	0	
25						0	0	2.1	0	0	0	
26						0	0	1.9	0	0	0	
27						0	0	1.0	0	0	0	
28						0	0	.71	0	0	.23	
29						0	0	.53	0	0	.02	
30						0	0	.51	0	0	.05	
31		-----			-----	0	-----	.53	-----	0	0	-----
TOTAL						0	0	18.48	6.04	1.06	0.30	0
MEAN						0	0	.60	.20	.034	.010	0
MAX						0	0	2.7	.73	.75	.23	0
MIN						0	0	0	0	0	0	0
AC-FT						0	0	37	12	2.1	.6	0
CAL YEAR 2001	MAX	1.3	MIN	0	AC-FT	14						
WTR YEAR 2002	MAX	2.7	MIN	0	AC-FT	51						

## NORTH PLATTE RIVER BASIN

## TRINNIER CANAL from Greenwood Creek, 00144200 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	1.1					0	0	1.2	1.3	2.0	1.2
2	.98	1.0					0	0	1.2	2.4	2.1	1.7
3	1.1	1.1					0	0	1.3		1.9	2.3
4	1.3	1.1					0	0	1.4	2.6	1.9	2.2
5	1.4	1.0					0	0	1.3	2.6	1.8	2.2
6	1.2	.99					0	0	1.1	2.8	2.0	2.1
7	1.1	.99					0	0	1.0	2.6	2.0	1.5
8	1.0	.78					0	0	.84	2.4	2.0	1.3
9	1.1						0	0	.70	2.3	2.2	1.2
10	1.3						0	0	.75	2.2	1.8	2.3
11	1.3						0	0	.74	2.3	1.6	2.8
12	1.4						0	0	.71	2.2	1.9	2.9
13	1.3						0	0	.90	2.2	2.3	3.1
14	1.3						0	0	.96	2.2	2.4	3.2
15	1.3						0	0	.98	2.1	2.2	3.3
16	1.3						0	0	.98	2.0	2.3	3.4
17	1.1						0	0	1.0	2.3	2.8	3.4
18	1.2						0	0	1.7	2.0	2.6	3.5
19	1.2						0	0	2.4	1.9	2.5	3.5
20	1.2						0	0	2.4	1.7	2.2	3.3
21	1.2						0	.45	2.4	1.7	2.2	3.3
22	1.1					0	0	1.3	2.3	1.6	2.1	3.3
23	1.2					0	0	1.4	2.4	1.6	2.1	3.1
24	1.3					0	0	1.7	2.1	1.4	4.4	2.9
25	1.2					0	0	1.7	2.0	1.5	2.7	2.9
26	1.2					0	0	1.6	2.1	1.5	4.6	2.9
27	1.1					0	0	1.6	1.3	1.5	2.9	2.9
28	.90					0	0	1.6	.86	1.6	1.4	3.1
29	1.0				-----	0	0	1.7	.09	1.9	1.4	3.2
30	1.0				-----	0	0	1.4	.14	1.9	1.6	3.2
31	.92	-----			-----	0	-----	1.2	-----	1.9	1.2	-----
TOTAL	36.16	8.06				0	0	15.65	39.25	60.2	69.1	81.2
MEAN	1.17	1.01				0	0	.50	1.31	2.01	2.23	2.71
MAX	1.4	1.1				0	0	1.7	2.4	2.8	4.6	3.5
MIN	.90	.78				0	0	0	.09	1.3	1.2	1.2
AC-FT	72	16				0	0	31	78	119	137	161
CAL YEAR 2001	MAX	3.3	MIN	0	AC-FT	501						
WTR YEAR 2002	MAX	4.6	MIN	0	AC-FT	614						

# NORTH PLATTE RIVER BASIN

**NELSON CANAL from Greenwood Creek, 00105500 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	0	2.6	3.4	0
2							0	0	0	3.3	3.4	0
3							0	0	0	3.3	3.5	0
4							0	0	0	3.2	3.6	0
5							0	0	0	3.1	3.6	0
6							0	0	0	3.2	3.5	0
7							0	0	0	3.0	3.4	0
8							0	0	0	2.9	3.6	0
9							0	0	0	2.8	3.6	0
10							0	0	0	2.9	3.5	0
11							0	0	0	2.9	3.5	0
12							0	0	0	2.8	3.5	0
13							0	0	0	2.8	3.5	0
14							0	0	0	2.7	3.5	0
15							0	0	0	2.6	3.5	0
16							0	0	0	2.8	3.4	0
17							0	0	0	2.8	3.4	0
18							0	0	1.8	2.9	3.4	0
19							0	0	2.9	3.0	3.4	0
20							0	0	2.9	3.3	3.6	0
21							0	0	2.9	3.8	3.5	0
22						0	0	0	2.8	3.6	3.5	0
23						0	0	0	2.8	3.6	3.5	0
24						0	0	0	2.7	3.6	3.5	0
25						0	0	0	2.6	3.6	.98	0
26						0	0	0	2.5	3.7	.25	0
27						0	0	0	2.7	3.6	.01	0
28						0	0	0	2.4	3.5	0	0
29					-----	0	0	0	2.0	3.5	0	0
30					-----	0	0	0	2.1	3.4	0	0
31		-----			-----	0	-----	0	-----	3.4	0	-----
TOTAL						0	0	0	33.1	98.2	85.04	0
MEAN						0	0	0	1.10	3.17	2.74	0
MAX						0	0	0	2.9	3.8	3.6	0
MIN						0	0	0	0	2.6	0	0
AC-FT						0	0	0	66	195	169	0
CAL YEAR 2001	MAX	4.4	MIN	0	AC-FT	577						
WTR YEAR 2002	MAX	3.8	MIN	0	AC-FT	429						

## NORTH PLATTE RIVER BASIN

MEREDITH-AMMER CANAL from Pumpkin Creek, 00088000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	.91	0	0	0
2							0	0	.38	0	0	0
3							0	0	.24	0	0	0
4							0	0	.29	0	0	0
5							0	0	1.6	0	0	
6							0	0	.86	0	0	
7							0	0	0	0	0	
8							0	0	0	0	0	
9							0	0	0	0	0	
10							0	0	0	0	0	
11							0	0	0	0	0	
12							0	0	0	0	0	
13							0	0	0	0	0	
14							0	0	0	0	0	
15							0	0	0	0	0	
16							0	0	0	0	0	
17							0	0	0	0	0	
18							0	0	0	0	0	
19							0	0	.39	0	0	
20							0	0	.02	0	0	
21							0	0	0	0	0	
22						0	0	0	0	0	0	
23						0	0	0	0	0	0	
24						0	0	0	0	0	0	
25						0	0	0	0	0	3.6	
26						0	0	0	0	0	3.1	
27						0	0	.41	0	0	.03	
28						0	0	1.7	0	0	0	
29					-----	0	0	2.3	0	0	0	
30					-----	0	0	1.9	0	0	0	
31		-----			-----	0	-----	1.5	-----	0	0	-----
TOTAL						0	0	7.81	4.69	0	6.73	0
MEAN						0	0	.25	.16	0	.22	0
MAX						0	0	2.3	1.6	0	3.6	0
MIN						0	0	0	0	0	0	0
AC-FT						0	0	15	9.3	0	13	0
CAL YEAR 2001	MAX	5.2	MIN	0	AC-FT	207						
WTR YEAR 2002	MAX	3.6	MIN	0	AC-FT	38						

# NORTH PLATTE RIVER BASIN

**PUMPKIN CREEK near Bridgeport, 06685000 - 2002**

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 and records below 2.0 cubic feet per second 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 32 cubic feet per second May 26, gage height 1.85 feet; no flow many days in June, July, and August.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4 E	.02	.20E	.40E	2.8E	3.8E	3.4	5.3	.01	0	.33	.01
2	2.0 E	.02	.20E	.40E	2.8E	4.0E	3.1	5.4	0	0	0	.01
3	1.5 E	.02	.20E	.40E	2.8E	3.0E	3.8	5.3	.01	0	.01	.03
4	1.5 E	.02	.20E	.40E	2.8E	4.0E	4.5	5.4	.01	0	0	.03
5	1.0 E	.02	.20E	.40E	3.0E	4.0E	13	5.2	0	0	0	.02
6	.80E	.02	.20E	.50E	3.0E	3.8E	3.4	4.8	0	0	0	.04
7	.50E	.04	.20E	.50E	3.2E	3.6E	3.1	4.4	0	.03	0	.04
8	.20E	.05	.20E	.50E	3.2E	3.4E	3.6	4.0	.04	.31	0	.06
9	.10E	.05	.30E	.60E	3.2E	3.4E	4.0	3.9	.16	.47	0	.23
10	.02	.05	.50E	.60E	3.4E	3.4E	4.5	4.4	.15	.22	.01	.03
11	.03	.07	.50E	.70E	3.0E	3.3	4.3	4.8	.06	.16	0	.06
12	.02	.17	.60E	.80E	2.8E	3.3	3.8	4.8	0	.21	0	.02
13	.02	.20	.60E	1.0 E	3.0E	2.7	3.8	4.7	0	0	0	.02
14	.03	.11	.70E	1.6 E	3.2E	2.9	3.9	4.5	0	0	0	.03
15	.04	.11	.70E	2.0 E	3.2E	3.5	4.0	3.4	0	0	0	.02
16	.05	.18	.80E	2.4 E	3.4E	3.0	3.9	3.3	0	0	0	.03
17	.02	.18	.90E	2.4 E	3.2E	3.1	4.0	3.9	0	0	0	.02
18	.20	.10E	1.0 E	2.1 E	2.6E	3.2	4.1	4.2	0	0	0	.03
19	1.7	.10E	1.1 E	1.9	2.0E	3.1	7.9	4.3	0	0	0	.05
20	2.0	.10E	1.1 E	1.8	2.0E	4.3	4.3	4.6	0	0	0	.04
21	1.9	.10E	1.1 E	2.0 E	1.8	13	4.6	5.1	0	.02	0	.04
22	1.5	.10E	1.0 E	2.2 E	2.0	16	4.3	2.2	0	.05	0	.06
23	.98	.10E	1.0 E	2.2 E	2.1	15	4.1	2.1	0	.12	0	.04
24	.31	.10E	.80E	2.6 E	1.8	14	3.6	9.1	0	.13	.08	.03
25	.03	.10E	.60E	2.8 E	1.8E	15	4.0	14	0	.12	.56	.06
26	.02	.20E	.60E	2.6 E	2.0E	23	4.1	19	0	.11	.08	6.5
27	.02	.20E	.60E	2.6 E	4.0E	13	5.3	23	0	.14	0	12
28	.02	.20E	.60E	2.8 E	3.8E	10	4.9	10	0	.09	3.0	9.8
29	.02	.20E	.50E	3.0 E	-----	8.4	4.9	3.5	0	.10	.38	8.6
30	.02	.20E	.50E	3.0 E	-----	6.2	4.5	1.1	0	.29	.04	5.9
31	.02	-----	.50E	2.8 E	-----	5.4	-----	1.1	-----	.81	.03	-----
TOTAL	18.97	3.13	18.20	50.00	77.9	207.8	134.7	180.8	0.44	3.38	4.52	43.85
MEAN	.61	.10	.59	1.61	2.78	6.70	4.49	5.83	.015	.11	.15	1.46
MAX	2.4	.20	1.1	3.0	4.0	23	13	23	.16	.81	3.0	12
MIN	.02	.02	.20	.40	1.8	2.7	3.1	1.1	0	0	0	.01
AC-FT	38	6.2	36	99	155	412	267	359	.9	6.7	9.0	87
CAL YEAR 2001	TOTAL	1,414.09	MEAN	3.87	MAX	31	MIN	0	AC-FT	2,800		
WTR YEAR 2002	TOTAL	743.69	MEAN	2.04	MAX	23	MIN	0	AC-FT	1,480		

E indicates estimated discharge.

## NORTH PLATTE RIVER BASIN

## BEERLINE CANAL from North Platte River, 00007000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8						0	0	6.9	4.9	9.0	18
2	2.8						0	0	6.4	2.8	8.8	18
3	2.8						0	0	6.8	3.8	8.4	18
4	2.7						0	0	10	7.0	6.0	17
5	2.8						0	0	11	5.5	.57	12
6	2.7						0	0	13	0	.73	12
7	2.6						0	0	14	.23	1.2	12
8	2.5						0	0	18	.61	.86	12
9	2.7						0	0	17	.65	5.9	12
10	2.8						0	0	16	5.4	13	12
11	2.7						0	0	15	17	12	12
12	2.7						0	0	14	18	12	12
13	2.6						0	0	12	20	12	12
14	2.5						0	0	12	20	12	12
15	1.8						0	0	13	21	7.5	12
16	0						0	0	15	13	.68	12
17	0						0	0	17	.13	.36	12
18							0	0	16	0	.52	9.8
19							0	0	15	0	.57	3.3
20							0	0	14	6.6	.62	3.3
21							0	.12	14	15	.58	3.4
22							0	.51	15	16	.49	3.4
23						0	0	0	15	18	.59	3.4
24						0	0	0	11	20	.57	3.4
25						0	0	0	3.3	10	.45	2.6
26						0	0	0	4.9	1.0	.30	2.3
27						0	0	0	5.2	1.0	.01	2.1
28						0	0	0	6.0	.67	.33	1.9
29					-----	0	0	0	7.0	.61	.46	1.7
30					-----	0	0	.33	6.4	5.4	6.2	1.6
31		-----			-----	0	-----	5.1	-----	9.4	19	-----
TOTAL	39.5					0	0	6.06	349.9	243.70	141.69	269.2
MEAN	2.32					0	0	.20	11.7	7.86	4.57	8.97
MAX	2.8					0	0	5.1	18	21	19	18
MIN	0					0	0	0	3.3	0	.01	1.6
AC-FT	78					0	0	12	694	483	281	534
CAL YEAR 2001	MAX	21	MIN	0	AC-FT	2,560						
WTR YEAR 2002	MAX	21	MIN	0	AC-FT	2,080						



# NORTH PLATTE RIVER BASIN

**LISCO CANAL from North Platte River, 00082000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0						0	0	0	32	16	34
2	14						0	0	0	35	15	34
3	19						0	0	0	43	10	31
4	18						0	0	0	49	0	34
5	22						0	0	0	45	0	40
6	19						0	0	0	27	29	36
7	15						0	0	0	32	75	32
8	14						0	0	0	14	33	32
9	12						0	0	0	0	27	31
10	4.4						0	0	0	0	24	37
11	0						0	0	0	0	29	34
12	0						0	0	0	0	24	35
13	0						0	0	0	0	20	33
14	0						0	0	0	0	17	35
15	0						0	0	0	0	17	34
16	0						0	0	0	0	20	32
17	0						0	0	24	0	22	29
18							0	0	38	28	22	29
19							0	0	43	57	28	31
20							0	0	37	16	46	32
21						0	0	0	49	16	35	34
22						0	0	0	55	17	20	24
23						0	0	0	42	4.8	20	26
24						0	0	0	49	0	31	31
25						0	0	0	49	0	48	9.2
26						0	0	0	65	0	19	0
27						0	0	0	27	0	17	0
28						0	0	0	33	8.2	20	0
29					-----	0	0	0	43	16	29	0
30					-----	0	0	0	41	17	40	0
31		-----			-----	0	-----	0	-----	16	31	-----
TOTAL	137.4					0	0	0	595	473.0	784	789.2
MEAN	8.08					0	0	0	19.8	15.3	25.3	26.3
MAX	22					0	0	0	65	57	75	40
MIN	0					0	0	0	0	0	0	0
AC-FT	273					0	0	0	1,180	938	1,560	1,570
CAL YEAR 2001	MAX	72	MIN	0	AC-FT	9,990						
WTR YEAR 2002	MAX	75	MIN	0	AC-FT	5,510						

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at Lisco, 06686000 - 2002

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 1,670 cubic feet per second October 1, gage height 1.90 feet; maximum gage height for the year 2.93 feet March 10 due to backwater from ice, minimum daily discharge 48 cubic feet per second June 25.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,550	1,160	1,160E	900E	880E	820E	755	430	114	126	88	660
2	1,510	1,150	1,160E	920E	880E	820E	731	397	106	95	76	639
3	1,450	1,140	1,170	940E	860E	840E	726	369	95	96	71	567
4	1,420	1,140	1,100	940E	855	840E	704	327	106	95	75	523
5	1,450	1,200	1,060	940E	860	840E	732	304	96	139	121	482
6	1,490	1,150	1,040	940E	862	860E	761	308	89	236	156	432
7	1,490	1,140	1,050	940E	879	880E	735	294	88	271	225	366
8	1,440	1,110	1,010	933	905	860E	764	284	93	249	370	296
9	1,450	1,110	997	943	900E	860E	714	254	167	260	354	325
10	1,430	1,120	1,010	941	900E	840E	703	269	192	202	318	320
11	1,450	1,110	1,020	931	903	840E	698	280	256	135	269	328
12	1,450	1,110	986	948	904	840E	677	279	247	122	254	365
13	1,430	1,140	957	953	864	780E	655	275	179	131	250	386
14	1,400	1,100	961	931	858	716	625	262	146	188	222	406
15	1,370	1,080	971	920E	853	744	605	256	136	210	203	425
16	1,350	1,120	960E	920E	860E	771	615	248	138	220	182	421
17	1,340	1,120	960E	920E	905	751	622	237	137	190	148	392
18	1,330	1,110	960E	900E	907	765	628	229	118	115	144	359
19	1,310	1,060	940E	900E	883	761	613	211	107	78	132	341
20	1,320	1,060	940E	900E	903	728	640	199	85	63	134	341
21	1,260	1,090	920E	900E	907	720E	676	202	69	56	140	411
22	1,270	1,080	900E	887	898	760E	651	216	59	52	139	498
23	1,280	1,080	880E	892	887	754	629	224	56	64	134	513
24	1,290	1,070	860E	843	882	760E	525	205	51	121	168	522
25	1,290	1,090	880E	860E	800E	760E	498	181	48	184	268	535
26	1,320	1,100E	900E	878	800E	760E	473	169	70	213	234	513
27	1,320	1,100E	918	880E	800E	761	512	153	83	232	236	498
28	1,300	1,140E	881	880E	800E	728	467	150	71	197	324	475
29	1,200	1,140E	880E	880E	-----	743	453	142	106	140	497	464
30	1,100	1,160E	860E	880E	-----	759	428	132	131	130	628	497
31	1,130	-----	900E	880E	-----	763	-----	115	-----	108	620	-----
TOTAL	42,190	33,480	30,191	28,220	24,395	24,424	19,015	7,601	3,439	4,718	7,180	13,300
MEAN	1,361	1,116	974	910	871	788	634	245	115	152	232	443
MAX	1,550	1,200	1,170	953	907	880	764	430	256	271	628	660
MIN	1,100	1,060	860	843	800	716	428	115	48	52	71	296
AC-FT	83,680	66,410	59,880	55,970	48,390	48,450	37,720	15,080	6,820	9,360	14,240	26,380
CAL YEAR 2001 TOTAL		382,160	MEAN	1,047	MAX	2,440	MIN	256	AC-FT	758,000		
WTR YEAR 2002 TOTAL		238,153	MEAN	652	MAX	1,550	MIN	48	AC-FT	472,400		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

**MIDLAND-OVERLAND CANAL from North Platte River, 00098000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8						0	0	5.9	0	0	2.8E
2	3.0						0	0	6.5	0	0	3.0E
3	2.6						0	0	5.2	0	0	3.6
4	4.9						0	0	5.3	0	0	1.8
5	12						0	0	.27	0	0	7.3
6	12						0	0	.21	0	0	6.6
7	9.5						0	0	.16	0	0	6.0
8	3.6						0	0	1.4	0	3.2	5.8
9	1.2						0	0	2.7	.79	6.3	5.6
10	1.1						0	0	7.0	.59	0	9.9
11	1.1 E						0	0	8.4	0	0	9.3
12	1.0 E						0	0	11	0	0	9.3
13	1.0 E						0	0	11	0	0	9.8
14	.94E						0	0	8.8	0	0	9.3
15	.90E						0	0	6.8	0	0	9.1
16	.86E						0	0	6.4	0	0	9.6
17	.82E						0	0	6.4	0	.61	9.5
18	.78E						0	0	5.3	0	.96	9.9
19	.74E						0	0	3.6	0	.12	11
20	.70E					0	0	0	2.9	0	0	11
21	.68E					0	0	0	.97	0	.14	11
22	.68					0	0	.27	0	0	0	11
23	.61					0	0	.54	0	0	0	12
24	.82					0	0	.67	0	0	0	12
25	.49					0	0	11	0	0	0	11
26	.49					0	0	14	0	0	0	11
27	.55					0	0	13	0	0	0	10
28	.49					0	0	12	0	0	0	10
29	.38				-----	0	0	11	0	0	.82	9.7
30	.28				-----	0	0	9.7	0	0	2.5 E	9.5
31	.28	-----			-----	0	-----	7.6	-----	0	2.8 E	-----
TOTAL	67.29					0	0	79.78	106.21	1.38	17.45	257.4
MEAN	2.17					0	0	2.57	3.54	.045	.56	8.58
MAX	12					0	0	14	11	.79	6.3	12
MIN	.28					0	0	0	0	0	0	1.8
AC-FT	133					0	0	158	211	2.7	35	511
CAL YEAR 2001	MAX	25	MIN	0	AC-FT	2,090						
WTR YEAR 2002	MAX	14	MIN	0	AC-FT	1,050						

E indicates estimated discharge.

## NORTH PLATTE RIVER BASIN

## PAISLEY CANAL from Blue Creek, 00120000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	0					0	0	14	0	0	15
2	16	0					0	0	15	0	0	13
3	16	0					0	0	15	0	0	13
4	17	0					0	0	14	0	0	13
5	18	0					0	0	13	0	0	12
6	18	0					0	0	12	0	0	13
7	17						0	0	11	0	0	14
8	17						0	0	11	0	0	14
9	17						0	0	11	0	0	15
10	18						0	0	14	0	0	16
11	17						0	0	15	0	0	14
12	18						0	0	15	0	0	14
13	18						0	0	15	0	0	14
14	20						0	0	16	0	0	15
15	22						0	0	16	0	0	15
16	22						0	0	16	0	0	15
17	20						0	0	15	0	0	15
18	19						0	0	14	0	0	15
19	20						0	0	15	0	0	16
20	20					0	0	0	15	0	.90	13
21	21					0	0	0	15	0	2.2	13
22	21					0	0	0	15	0	2.2	14
23	21					0	0	0	15	0	2.2	15
24	14					0	0	9.2	7.4	0	2.2	15
25	12					0	0	14	0	0	2.2	15
26	15					0	0	14	0	0	2.2	15
27	12					0	0	14	0	0	2.2	15
28	3.8					0	0	14	0	0	2.2	15
29	0				-----	0	0	15	0	0	3.6	13
30	0				-----	0	0	14	0	0	15	13
31	0	-----			-----	0	-----	14	-----	0	16	-----
TOTAL	485.8	0				0	0	108.2	334.4	0	53.10	427
MEAN	15.7	0				0	0	3.49	11.1	0	1.71	14.2
MAX	22	0				0	0	15	16	0	16	16
MIN	0	0				0	0	0	0	0	0	12
AC-FT	964	0				0	0	215	663	0	105	847
CAL YEAR 2001	MAX	22	MIN	0	AC-FT	2,790						
WTR YEAR 2002	MAX	22	MIN	0	AC-FT	2,790						

# NORTH PLATTE RIVER BASIN

**BLUE CREEK & HOOPER CANAL from Blue Creek, 00017100 - 2002**

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 seperately in this report.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22E						0	0	40	0	49	0
2	25E						0	0	39	0	49	0
3	27E						0	0	40	0	35	13
4	30E						0	0	42	0	0	27
5	32						0	0	42	0	0	24
6	33						0	0	40	0	33	19
7	31						0	0	31	0	57	21
8	31						0	4.1	23	0	56	27
9	29						0	1.1	19	0	52	30
10	24						0	7.4	19	0	45	27
11	24						0	16	24	0	46	22
12	24						0	18	24	0	44	16
13	24						0	36	24	0	43	16
14	28						0	52	24	0	44	16
15	28						0	66	25	0	44	16
16	23						0	64	24	0	43	15
17	21						0	64	27	0	43	15
18	20						0	63	29	0	51	15
19	20						0	60	29	0	51	15
20	19						0	56	36	0	52	15
21	19					0	0	50	49	0	48	15
22	19					0	0	29	49	0	41	15
23	14					0	0	47	50	0	26	16
24	0					0	0	46	51	0	16	19
25	0					0	0	46	54	0	17	20
26	0					0	0	46	33	0	26	20
27	0					0	0	50	6.1	0	43	20
28	0					0	0	54	0	0	47	24
29	0				-----	0	0	54	0	2.7	15	27
30	0				-----	0	0	54	0	14	0	27
31	0	-----			-----	0	-----	51	-----	33	0	-----
TOTAL	567					0	0	1,034.6	893.1	49.7	1,116	552
MEAN	18.3					0	0	33.4	29.8	1.60	36.0	18.4
MAX	33					0	0	66	54	33	57	30
MIN	0					0	0	0	0	0	0	0
AC-FT	1,120					0	0	2,050	1,770	99	2,210	1,090
CAL YEAR 2001	MAX	55	MIN	0	AC-FT	8,140						
WTR YEAR 2002	MAX	66	MIN	0	AC-FT	8,360						

E indicates estimated discharge.

## NORTH PLATTE RIVER BASIN

## HOOPER CANAL from Blue Creek via Blue Creek Canal, 00067000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6E						0	0	4.3	0	15	0
2	7.7E						0	0	3.8	0	15	0
3	6.9E						0	0	4.5	0	12	5.1
4	6.0E						0	0	4.9	0	2.7	9.9
5	5.2						0	0	3.9	0	1.0	8.6
6	4.1						0	0	3.3	0	5.4	6.9
7	3.1						0	0	3.0	0	10	5.8
8	3.0						0	1.3	2.9	0	10	5.7
9	2.7						0	1.1	2.7	0	10	6.0
10	3.1						0	4.3	2.7	0	9.4	5.2
11	2.9						0	10	3.2	0	9.7	4.3
12	2.7						0	9.7	3.1	0	10	2.9
13	2.7						0	7.8	3.0	0	9.4	3.1
14	2.8						0	8.2	3.0	0	9.5	3.6
15	2.1						0	9.6	2.9	0	9.2	4.9
16	1.9						0	11	3.3	0	9.1	5.8
17	2.0						0	11	3.3	0	8.9	5.2
18	2.2						0	10	3.6	0	9.7	4.1
19	2.2						0	9.8	2.5	0	9.7	4.1
20	2.3					0	0	10	2.5	0	9.5	4.6
21	2.3					0	0	9.7	2.2	0	9.4	4.6
22	2.2					0	0	5.8	4.0	0	8.8	4.7
23	1.6					0	0	7.8	5.0	0	8.0	4.6
24	0					0	0	8.6	7.6	0	12	5.1
25	0					0	0	8.2	8.9	0	13	4.9
26	0					0	0	8.3	7.8	0	10	5.0
27	0					0	0	8.0	4.7	0	9.5	5.1
28	0					0	0	8.8	.13	0	10	3.9
29	0				-----	0	0	6.7	0	.65	4.4	3.4
30	0				-----	0	0	5.6	0	12	0	3.4
31	0	-----			-----	0	-----	5.5	-----	13	0	-----
TOTAL	80.3					0	0	186.8	106.73	25.65	270.3	140.5
MEAN	2.59					0	0	6.03	3.56	.83	8.72	4.68
MAX	8.6					0	0	11	8.9	13	15	9.9
MIN	0					0	0	0	0	0	0	0
AC-FT	159					0	0	371	212	51	536	279
CAL YEAR 2001	MAX	12	MIN	0	AC-FT	1,420						
WTR YEAR 2002	MAX	15	MIN	0	AC-FT	1,610						

# NORTH PLATTE RIVER BASIN

**UNION CANAL from Blue Creek, 00146000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2						0	0	7.1	14	16	3.7
2	1.8						0	0	3.6	11	16	3.0
3	4.9						0	0	4.4	0	17	4.1
4	6.2						0	0	5.5	0	17	11
5	4.4						0	0	1.8	0	16	10
6	6.1						0	0	1.0	0	15	9.7
7	6.2						0	0	0	0	14	8.2
8	5.6						0	0	0	5.8	15	8.1
9	5.7						0	0	0	13	15	7.7
10	5.9						0	0	2.2	13	16	7.7
11	5.8						0	0	3.0	13	14	5.6
12	6.3						0	0	3.0	6.6	14	2.0
13	6.4						0	0	2.8	0	14	3.3
14	6.2						0	0	2.7	0	13	6.5
15	7.1						0	0	2.9	5.8	13	5.1
16	8.3						0	0	8.3	14	13	2.9
17	9.3						0	0	10	14	13	2.9
18	8.9						0	0	11	14	12	3.0
19	9.0						0	0	10	14	13	3.7
20	4.1					0	0	.59	10	14	13	3.8
21	0					0	0	4.3	9.9	15	13	3.4
22	0					0	0	5.7	11	14	14	4.5
23						0	0	9.7	8.9	14	12	6.0
24						0	0	11	11	15	11	7.2
25						0	0	11	13	15	9.9	7.2
26						0	0	11	14	15	9.0	7.5
27						0	0	8.9	15	16	.80	7.4
28						0	0	7.6	13	16	4.2	5.8
29					-----	0	0	9.1	13	16	7.2	5.5
30					-----	0	0	8.2	13	16	8.7	6.0
31		-----			-----	0	-----	4.8	-----	16	4.2	-----
TOTAL	120.4					0	0	91.89	211.1	320.2	383.00	172.5
MEAN	5.47					0	0	2.96	7.04	10.3	12.4	5.75
MAX	9.3					0	0	11	15	16	17	11
MIN	0					0	0	0	0	0	.80	2.0
AC-FT	239					0	0	182	419	635	760	342
CAL YEAR 2001	MAX	19	MIN	0	AC-FT	2,050						
WTR YEAR 2002	MAX	17	MIN	0	AC-FT	2,580						

# NORTH PLATTE RIVER BASIN

**GRAF CANAL from Blue Creek, 00060000 - 2002**

LOCATION.--SW1/4SE1/4 Sec. 19-16-42 W. near Lewellen

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

PERIOD OF RECORD.--1917 - 1919, 1921 - 1925, 1927, 1930 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3						0	0				
2	6.3						0	0				
3	6.1						0	.99				
4	5.8						0	3.3				
5	5.6						0	2.7				
6	5.5						0	.34				
7	5.3						0	0				
8	5.2						0	0				
9	5.1						0	0				
10	5.1						0	0				
11	4.8						0	0				
12	5.4						0	0				
13	6.4						0	0				
14	5.0						0	0				
15	5.9						0	0				
16	6.7						0	0				
17	4.0						0					
18	2.6						0					
19	2.6						0					
20	2.5						0					
21	2.6					0	0					
22	2.6					0	0					
23	2.4					0	0					
24	.34					0	0					
25	0					0	0					
26	0					0	0					
27	0					0	0					
28	0					0	0					
29	0				-----	0	0					
30	0				-----	0	0					
31	0	-----			-----	0	-----		-----			-----
TOTAL	110.14					0	0	7.33				
MEAN	3.55					0	0	.46				
MAX	6.7					0	0	3.3				
MIN	0					0	0	0				
AC-FT	218					0	0	15				
CAL YEAR 2001	MAX	17	MIN	0	AC-FT	2,040						
WTR YEAR 2002	MAX	6.7	MIN	0	AC-FT	233						



# NORTH PLATTE RIVER BASIN

**BLUE CREEK near Lewellen, 06687000 - 2002**

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 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 7.83 feet February 27, 2002, backwater from ice; no flow for short periods many years since 1940.

EXTREMES FOR CURRENT YEAR.--Peak discharge 125 cubic feet per second July 6, gage height 4.54 feet; maximum gage height 7.83 feet February 27 due to backwater from ice; minimum daily discharge zero May 29-31, June 22-24, August 8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	83	80E	90E	80E	80E	85	83	12	56	13	68
2	45	81	84E	96E	80	88E	82	88	17	60	12	67
3	42	79	100E	96E	81	90E	78	87	18	76	14	56
4	41	78	92	98E	80	84E	80	84	23	74	51	33
5	33	78	95	98E	80	82E	82	83	27	70	58	32
6	28	77	96	102E	81	80E	84	84	25	103	42	40
7	26	76	105	99	81	72	84	84	32	95	2.9	37
8	26	74	113	102	83	70	88	80	41	75	0	28
9	26	73	111	104	83	62	87	83	46	59	3.2	30
10	30	73	110	101	77	78	84	77	39	57	17	39
11	33	73	106	97	80	101	92	73	33	57	15	44
12	34	72	103	93	90	97	93	72	32	62	15	49
13	31	71	100	91	84	97	87	60	31	69	16	49
14	35	72	99	89	86	93	86	49	32	69	16	49
15	42	71	103	85	89	91	90	37	31	64	15	48
16	43	73	102	85	91	91	88	33	26	55	14	48
17	45	74	102	84	90	90	86	25	24	54	13	48
18	41	70	104	84E	90	90	82	24	21	54	7.9	49
19	41	69	103	84E	88	88	79	24	20	54	5.7	48
20	41	74	102	84	86	87	78	25	16	54	5.3	49
21	46	74	103	86	87	84	82	20	2.4	54	7.5	49
22	46	72	103	87	90	82	85	46	0	61	21	49
23	48	72E	90E	89	91	87	82	24	0	61	29	48
24	65	70E	100E	86	90	86	79	15	0	59	48	42
25	67	70E	100E	82	84	83	77	7.4	12	57	48	42
26	65	70E	96E	86	80E	84	78	5.3	22	59	45	42
27	69	68E	105	87	76E	86	82	1.3	57	58	38	42
28	81	70E	103	84	78E	86	89	.10	63	57	38	42
29	85	74E	90E	82E	-----	83	84	0	59	56	59	39
30	84	74E	100E	78E	-----	84	83	0	56	47	82	38
31	84	-----	98E	80E	-----	84	-----	0	-----	37	75	-----
TOTAL	1,470	2,205	3,098	2,789	2,356	2,640	2,516	1,374.10	817.4	1,923	826.5	1,344
MEAN	47.4	73.5	99.9	90.0	84.1	85.2	83.9	44.3	27.2	62.0	26.7	44.8
MAX	85	83	113	104	91	101	93	88	63	103	82	68
MIN	26	68	80	78	76	62	77	0	0	37	0	28
AC-FT	2,920	4,370	6,140	5,530	4,670	5,240	4,990	2,730	1,620	3,810	1,640	2,670

CAL YEAR 2001	TOTAL	24,886.57	MEAN	68.2	MAX	166	MIN	0	AC-FT	49,360
WTR YEAR 2002	TOTAL	23,359.00	MEAN	64.0	MAX	113	MIN	0	AC-FT	46,330

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at Lewellen, 06687500 - 2002

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 1,740 cubic feet per second October 15, gage height 5.98 feet; maximum gage height 7.61 feet December 31 due to backwater from ice; minimum daily discharge 38 cubic feet per second June 24.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,570	1,320	1,000E	800E	920E	780E	949	533	112	105	86	575
2	1,540	1,280	920E	760E	980E	760E	911	538	119	112	70	583
3	1,470	1,270	1,200E	700E	1,000E	740E	852	513	134	116	60	582
4	1,450	1,250	1,650E	720E	1,060E	700E	858	472	159	101	84	544
5	1,550	1,260	1,400E	800E	1,100E	760E	846	455	151	95	97	540
6	1,600	1,260	1,300E	820E	1,160E	780E	855	431	120	230	84	536
7	1,630	1,290	1,250E	840E	1,200E	800E	895	405	114	272	66	507
8	1,640	1,310	1,200E	900E	1,160E	820E	968	409	120	263	77	451
9	1,640	1,320	1,280	1,100E	1,060	900E	905	395	115	252	164	442
10	1,670	1,340	1,270	1,300E	726	1,000E	878	379	128	273	231	509
11	1,670	1,360	1,190	1,400E	868	1,020E	963	394	158	251	246	471
12	1,660	1,360	1,180	1,500E	1,290	1,040E	913	384	188	195	195	476
13	1,640	1,350	1,150	1,500E	1,080	1,060	869	365	195	166	193	503
14	1,640	1,380	1,150	1,100E	1,110	1,030	841	338	165	154	203	496
15	1,710	1,380	1,180	900E	1,060	1,010	811	315	134	171	190	511
16	1,660	1,370	1,190	760E	1,110	1,020	760	320	114	182	170	503
17	1,660	1,350	1,200	700E	1,160	1,030	730	310	108	194	142	491
18	1,640	1,310	1,230	720E	1,080	1,020	683	298	103	187	126	468
19	1,630	1,280	1,210	740E	1,070	1,010	647	278	88	141	110	426
20	1,630	1,240	1,220	780E	1,040	987	683	268	80	111	108	403
21	1,660	1,240	1,240	900E	1,050	939	740	248	65	97	111	392
22	1,670	1,270	1,200	1,000E	1,060	939	723	257	49	103	132	443
23	1,620	1,310	1,070	1,180E	1,060	976	690	249	41	96	139	506
24	1,590	1,340	975	1,300E	1,070	984	640	251	38	86	163	526
25	1,540	1,290	1,060	1,200E	1,070	1,010	594	242	44	101	181	547
26	1,500	1,330	1,150	1,100E	900E	1,010	582	218	50	152	240	565
27	1,490	836	1,270	1,000E	860E	1,010	593	192	82	179	264	548
28	1,480	1,090	1,250	980E	800E	1,000	605	173	97	202	312	516
29	1,440	1,000E	1,140	940E	-----	980	560	156	84	201	525	499
30	1,410	1,100E	1,000E	900E	-----	961	546	135	85	159	560	485
31	1,380	-----	900E	880E	-----	948	-----	116	-----	137	589	-----
TOTAL	49,080	38,086	36,625	30,220	29,104	29,024	23,090	10,037	3,240	5,084	5,918	15,044
MEAN	1,583	1,270	1,181	975	1,039	936	770	324	108	164	191	501
MAX	1,710	1,380	1,650	1,500	1,290	1,060	968	538	195	273	589	583
MIN	1,380	836	900	700	726	700	546	116	38	86	60	392
AC-FT	97,350	75,540	72,650	59,940	57,730	57,570	45,800	19,910	6,430	10,080	11,740	29,840
CAL YEAR 2001 TOTAL		415,981	MEAN	1,140	MAX	3,010	MIN	227	AC-FT	825,100		
WTR YEAR 2002 TOTAL		274,552	MEAN	752	MAX	1,710	MIN	38	AC-FT	544,600		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

**KINGSLEY RESERVOIR from North Platte River, 06690000 - 2002**

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 CONTENTS IN ACRE- FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	902,200	974,600	1,012,800	1,051,700	1,089,100	1,125,200	1,154,900	1,154,900	1,118,400	983,000	720,600	585,500
2	906,200	976,700	1,015,000	1,051,700	1,091,400	1,122,900	1,152,600	1,152,600	1,116,100	974,600	713,200	583,800
3	908,300	976,700	1,017,100	1,053,900	1,091,400	1,122,900	1,152,600	1,152,600	1,113,800	964,100	705,900	583,800
4	912,300	978,800	1,019,300	1,053,900	1,093,600	1,125,200	1,152,600	1,150,300	1,113,800	955,700	698,700	582,100
5	914,400	978,800	1,021,400	1,053,900	1,095,900	1,125,200	1,152,600	1,150,300	1,111,600	945,300	693,200	582,100
6	918,500	978,800	1,023,600	1,053,900	1,095,900	1,127,500	1,152,600	1,150,300	1,109,300	943,200	686,000	580,400
7	920,500	980,900	1,025,700	1,056,100	1,100,300	1,127,500	1,154,900	1,150,300	1,104,800	937,000	680,600	580,400
8	924,600	980,900	1,025,700	1,058,300	1,100,300	1,129,700	1,154,900	1,150,300	1,102,600	928,800	673,500	578,800
9	926,700	985,200	1,030,000	1,060,400	1,102,600	1,132,000	1,154,900	1,145,700	1,098,100	920,500	668,100	578,800
10	926,700	983,000	1,030,000	1,062,600	1,102,600	1,132,000	1,157,200	1,145,700	1,098,100	914,400	662,800	578,800
11	928,800	985,200	1,032,200	1,064,800	1,104,800	1,134,300	1,157,200	1,145,700	1,095,900	904,200	657,500	578,800
12	930,800	987,300	1,034,400	1,067,000	1,104,800	1,134,300	1,157,200	1,143,400	1,091,400	894,100	652,300	577,100
13	937,000	989,400	1,034,400	1,069,200	1,107,100	1,136,600	1,157,200	1,143,400	1,089,100	886,000	648,800	577,100
14	937,000	989,400	1,036,500	1,069,200	1,109,300	1,138,900	1,157,200	1,141,200	1,084,700	876,000	645,300	577,100
15	941,200	993,600	1,040,800	1,071,400	1,109,300	1,141,200	1,154,900	1,143,400	1,082,500	868,000	640,100	575,500
16	943,200	993,600	1,038,700	1,071,400	1,111,600	1,141,200	1,157,200	1,141,200	1,078,100	860,100	640,100	575,500
17	945,300	995,800	1,040,800	1,073,600	1,113,800	1,141,200	1,157,200	1,136,600	1,073,600	850,200	631,400	573,800
18	947,400	995,800	1,043,000	1,073,600	1,113,800	1,143,400	1,157,200	1,136,600	1,069,200	842,300	627,900	575,500
19	949,500	997,900	1,043,000	1,075,800	1,116,100	1,143,400	1,157,200	1,136,600	1,062,600	834,400	624,500	575,500
20	953,600	1,000,000	1,045,200	1,073,600	1,118,400	1,145,700	1,157,200	1,134,300	1,060,400	824,700	621,100	573,800
21	955,700	1,002,100	1,047,400	1,075,800	1,118,400	1,145,700	1,157,200	1,134,300	1,056,100	815,000	615,900	573,800
22	957,800	1,002,100	1,047,400	1,078,100	1,120,600	1,145,700	1,157,200	1,134,300	1,051,700	805,300	610,800	573,800
23	959,900	1,006,400	1,049,500	1,080,300	1,120,600	1,145,700	1,157,200	1,132,000	1,047,400	795,700	605,700	572,100
24	964,100	1,006,400	1,049,500	1,080,300	1,122,900	1,148,000	1,157,200	1,129,700	1,043,000	786,100	602,300	572,100
25	962,000	1,008,600	1,051,700	1,084,700	1,125,200	1,148,000	1,154,900	1,129,700	1,038,700	776,600	598,900	572,100
26	966,200	1,012,800	1,051,700	1,084,700	1,122,900	1,150,300	1,154,900	1,127,500	1,030,000	767,200	595,500	572,100
27	968,300	1,010,700	1,053,900	1,084,700	1,122,900	1,150,300	1,157,200	1,127,500	1,021,400	759,600	593,900	572,100
28	970,400	1,010,700	1,053,900	1,086,900	1,122,900	1,150,300	1,154,900	1,125,200	1,012,800	752,100	592,200	572,100
29	970,400	1,010,700	1,053,900	1,089,100	-----	1,150,300	1,154,900	1,125,200	1,002,100	742,800	590,500	572,100
30	972,500	1,012,800	1,053,900	1,089,100	-----	1,150,300	1,154,900	1,122,900	991,500	735,400	588,800	572,100
31	974,600	-----	1,053,900	1,089,100	-----	1,152,600	-----	1,120,600	-----	728,000	587,100	-----
MAX	974,600	1,012,800	1,053,900	1,089,100	1,125,200	1,152,600	1,157,200	1,154,900	1,118,400	983,000	720,600	585,500
MIN	902,200	974,600	1,012,800	1,051,700	1,089,100	1,122,900	1,152,600	1,120,600	991,500	728,000	587,100	572,100
CHANGE	74,400	38,200	41,100	35,200	33,800	29,700	2,300	-34,300	-129,100	-263,500	-140,900	-15,000
CAL YEAR 2001			MEAN	1,058,762		MAX	1,230,000		MIN	838,000		
WTR YEAR 2002			MEAN	977,036		MAX	1,157,200		MIN	572,100		

# NORTH PLATTE RIVER BASIN

## SUTHERLAND CANAL from North Platte River and Kingsley Reservoir, 00138000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	711	497	609	456	483	649	760	1,050	1,750	1,460	976
2	140	781	493	608	452	540	661	751	1,170	1,740	1,460	969
3	140	804	454	601	452	543	661	747	1,170	1,680	1,460	887
4	140	808	409	601	451	531	658	749	1,170	1,670	1,450	692
5	141	811	409	600	438	529	677	746	1,170	1,680	1,440	707
6	141	815	408	604	331	533	707	741	1,170	1,650	1,460	715
7	142	827	410	522	311	534	704	750	1,170	1,490	1,470	726
8	142	829	411	421	310	539	707	745	1,180	1,610	1,500	737
9	143	787	405	380	311	550	705	787	1,170	1,590	1,530	750
10	143	667	408	360	346	536	705	798	1,230	1,580	1,540	748
11	144	561	408	344	315	464	706	797	1,360	1,570	1,560	748
12	144	482	410	316	319	362	705	795	1,510	1,570	1,590	726
13	145	466	409	310	317	364	708	793	1,650	1,550	1,610	690
14	145	431	408	319	314	422	707	752	1,650	1,540	1,620	688
15	146	427	406	319	319	505	707	666	1,650	1,530	1,640	683
16	146	425	408	321	318	531	707	650	1,650	1,510	1,660	680
17	147	418	404	318	317	525	759	650	1,650	1,520	1,680	674
18	147	419	404	316	316	529	784	649	1,700	1,560	1,700	669
19	148	423	411	342	317	526	787	650	1,800	1,560	1,720	672
20	148	416	408	358	318	529	790	651	1,820	1,540	1,720	665
21	149	409	406	357	319	538	790	657	1,800	1,520	1,720	623
22	149	405	410	354	321	562	766	645	1,810	1,510	1,710	541
23	150	405	462	355	317	587	738	649	1,810	1,520	1,710	446
24	150	405	509	357	324	593	737	654	1,800	1,500	1,710	356
25	151	404	506	357	391	595	741	649	1,800	1,500	1,640	254
26	180	415	505	360	460	623	758	648	1,790	1,490	1,610	49.0E
27	277	467	541	361	428	646	756	644	1,790	1,490	1,380	37.0E
28	364	505	600	416	422	649	753	654	1,780	1,480	1,300	37.0E
29	402	501	620	459	-----	651	748	730	1,770	1,470	1,270	37.0E
30	475	497	604	458	-----	649	750	734	1,750	1,470	1,090	37.0E
31	580	-----	601	456	-----	653	-----	784	-----	1,470	985	-----
TOTAL	5,898	16,721	14,144	12,859	10,010	16,821	21,731	22,075	45,990	48,310	47,395	17,219.0
MEAN	190	557	456	415	358	543	724	712	1,530	1,560	1,530	574
MAX	580	829	620	609	460	653	790	798	1,820	1,750	1,720	976
MIN	139	404	404	310	310	362	649	644	1,050	1,470	985	37.0
AC-FT	11,699	33,166	28,054	25,505	19,855	33,364	43,103	43,785	91,220	95,821	94,007	34,153
CAL YEAR 2001	TOTAL	268,103.0	MEAN	735	MAX	1,780	MIN	0	AC-FT	531,775		
WTR YEAR 2002	TOTAL	279,173.0	MEAN	765	MAX	1,820	MIN	37.0	AC-FT	553,732		

E indicates estimated discharge.

# SOUTH PLATTE RIVER BASIN

**SOUTH PLATTE SUPPLY CANAL (Korty) from South Platte River, 06764900 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	39	0	0	280	50	0	70	0	0	0	0
2	73	35	0	0	220	73	0	70	0	0	0	0
3	76	34	64	0	273	0	0	67	0	0	0	0
4	78	33	164	0	296	0	0	56	0	0	0	0
5	76	32	298	0	350	29	0	53	0	83	0	0
6	70	44	346	0	389	109	0	46	0	0	0	0
7	79	65E	349	79	451	151	0	45	0	0	0	0
8	81	87	243	154	432	220E	0	30	0	0	0	0
9	87	101	225	224	411	390E	0	20	0	0	0	0
10	88	115	214	273	273	360E	0	16	0	0	0	0
11	89	119	174	329	264	327	0	0	0	0	0	0
12	89	118	157	315	233	320E	0	0	0	0	0	0
13	87	108	135	244	202	330E	0	0	0	0	0	0
14	92	75	122	255	242	337	0	0	0	0	0	0
15	125	60	129	202	269	248	0	0	0	0	0	0
16	144	50	167	172	290	213	0	0	0	0	0	0
17	129	62	162	184	261	153	0	0	0	0	0	0
18	106	73	173	151	263	114	0	0	0	0	0	0
19	85	42	140	177	184	91	0	0	0	0	0	0
20	75	35	137	139	192	81	0	0	0	0	0	0
21	75	25	147	154	175	83	0	0	0	0	0	0
22	71	65	165	157	166	66	0	0	0	0	0	0
23	71	77	104	209	164	29	0	0	0	0	0	0
24	69	93	65	269	158	0	95E	0	0	0	0	0
25	61	98	50	277	147	0	83	0	0	0	0	0
26	61	59	52	290	61	0	83	0	0	0	0	0
27	61	12	109	329	0	0	85	0	0	0	0	0
28	61	0	121	390	0	0	85	0	0	0	0	0
29	58	0	103	346	-----	0	81	0	0	0	0	0
30	61	0	43	253	-----	0	70	0	0	0	0	0
31	51	-----	0	299	-----	0	-----	0	-----	0	0	-----
TOTAL	2,502	1,756	4,358	5,871	6,646	3,774	582	473	0	83	0	0
MEAN	80.7	58.5	141	189	237	122	19.4	15.3	0	2.68	0	0
MAX	144	119	349	390	451	390	95	70	0	83	0	0
MIN	51	0	0	0	0	0	0	0	0	0	0	0
AC-FT	4,960	3,480	8,640	11,650	13,180	7,490	1,150	938	0	165	0	0
CAL YEAR 2001	TOTAL	40,327	MEAN	110	MAX	778	MIN	0	AC-FT	79,990		
WTR YEAR 2002	TOTAL	26,045	MEAN	71.4	MAX	451	MIN	0	AC-FT	51,660		

E indicates estimated discharge.

# NORTH & SOUTH PLATTE RIVER BASIN

## SUTHERLAND RESERVOIR from North & South Platte Rivers, 00409100 - 2002

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 CONTENTS IN ACRE-FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55,551	44,402	44,348	43,142	43,302	42,849	45,917	49,857	53,189	52,135	42,769	48,412
2	54,827	44,240	44,294	43,142	43,543	42,769	45,971	49,968	52,989	51,258	41,946	49,105
3	54,279	44,079	44,348	42,955	43,623	42,796	46,162	50,360	53,246	50,781	41,313	49,801
4	54,049	43,891	44,509	43,035	43,945	42,902	46,189	50,220	53,103	49,857	41,103	50,052
5	53,246	43,677	44,806	42,849	44,348	43,062	46,325	50,220	53,132	49,272	41,155	50,164
6	52,561	43,570	44,860	42,636	44,536	43,409	46,462	50,472	52,761	50,024	41,024	50,248
7	52,022	43,516	44,995	42,530	44,887	43,757	46,598	50,865	52,618	50,668	40,840	50,192
8	51,428	43,650	45,103	42,397	45,211	44,187	46,762	50,612	52,419	50,500	40,630	50,276
9	51,428	43,650	45,157	42,318	45,266	44,590	46,926	50,556	52,618	50,472	41,129	50,528
10	50,052	43,730	45,184	42,291	45,266	45,374	47,091	50,584	52,277	49,662	40,892	50,668
11	49,634	43,837	45,157	42,477	45,374	45,890	47,200	50,752	51,965	48,772	40,971	50,977
12	49,244	43,757	45,049	42,716	45,266	46,489	47,310	50,837	52,135	48,467	40,709	51,456
13	48,855	43,811	44,887	42,769	44,995	46,789	47,530	50,893	51,654	47,970	40,814	51,852
14	48,467	43,730	44,689	42,610	44,887	46,598	47,585	51,230	51,795	48,523	40,735	52,164
15	48,329	43,784	44,456	42,636	44,725	46,434	47,668	51,739	51,993	49,550	40,866	52,533
16	47,943	43,757	44,267	42,530	44,617	46,489	47,750	51,965	51,824	49,745	40,866	52,789
17	47,530	43,811	44,294	42,477	44,563	46,325	47,915	52,192	51,767	49,801	40,945	53,160
18	47,310	43,837	44,240	42,397	44,563	46,162	47,915	52,590	52,078	49,578	40,735	53,361
19	47,036	43,864	44,294	42,344	44,429	45,890	48,136	52,704	52,306	48,883	40,761	53,504
20	46,653	43,918	44,213	42,265	44,348	45,726	48,302	52,818	53,418	48,219	41,076	53,791
21	46,653	43,918	44,160	42,212	44,187	45,482	48,523	52,903	54,452	47,915	41,155	54,193
22	46,353	43,945	44,052	42,185	44,106	45,401	48,717	53,103	55,059	46,462	41,339	54,222
23	45,428	44,348	43,811	42,238	44,079	45,184	48,800	53,103	55,522	45,564	41,261	54,049
24	45,482	44,321	43,650	42,212	43,811	45,293	48,744	53,332	54,827	44,860	42,185	53,389
25	45,293	44,375	43,596	42,344	43,650	45,320	48,744	53,532	54,366	43,998	42,610	52,704
26	44,294	44,689	43,543	42,503	43,329	45,347	48,883	53,647	54,481	43,864	43,516	51,626
27	43,945	44,563	43,436	42,583	43,222	45,455	49,161	53,705	53,963	43,516	44,671	50,668
28	43,891	44,484	43,463	42,769	43,009	45,591	49,355	53,418	53,762	43,196	45,564	49,550
29	43,811	44,536	43,383	43,035	-----	45,781	49,522	53,676	53,561	42,876	46,598	48,523
30	44,160	44,482	43,196	43,222	-----	45,808	49,717	53,705	52,675	43,276	47,365	47,888
31	44,294	-----	43,329	43,356	-----	45,971	-----	53,532	-----	42,796	47,888	-----
MAX	55,551	44,689	45,184	43,356	45,374	46,789	49,717	53,705	55,522	52,135	47,888	54,222
MIN	43,811	43,516	43,196	42,185	43,009	42,769	45,917	49,857	51,654	42,796	40,630	47,888
CHANGE	-11,955	188	-1,153	27.0	-347	2,962	3,746	3,815	-857	-9,879	5,092	0
CAL YEAR 2001			MEAN	50,538	MAX	61,800	MIN	43,196				
WTR YEAR 2002			MEAN	46,907	MAX	55,551	MIN	40,630				

# NORTH & SOUTH PLATTE RIVER BASIN

**MALONEY RESERVOIR from North & South Platte Rivers, 00405500 - 2002**

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 CONTENTS IN ACRE-FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,500	8,905	17,480	17,480	17,640	17,800	17,800	17,965	17,965	17,320	17,320	15,890
2	10,500	9,020	17,480	17,640	17,640	17,800	17,800	17,965	17,000	17,320	17,160	16,200
3	9,375	9,250	17,640	17,640	17,640	17,965	17,800	17,965	17,800	17,320	17,160	16,045
4	9,375	11,540	17,640	17,640	17,800	18,130	17,640	17,965	17,800	17,160	17,480	16,200
5	9,375	12,220	17,640	17,640	17,800	17,965	17,640	17,965	17,800	17,160	17,160	16,200
6	9,250	13,060	17,800	17,640	17,800	17,965	17,800	17,965	17,640	17,160	16,680	16,520
7	9,250	13,925	17,965	17,640	17,800	17,800	17,640	17,965	17,640	17,800	16,035	16,680
8	9,020	14,650	17,965	17,800	17,800	17,800	17,640	17,800	17,640	17,640	15,735	17,000
9	9,020	15,580	17,800	17,800	17,800	17,800	17,640	17,965	17,480	17,640	15,580	17,320
10	9,020	16,360	17,800	17,800	17,800	17,800	17,640	17,800	17,480	17,320	15,425	17,640
11	9,020	16,840	17,965	17,965	17,800	17,965	17,800	17,965	17,640	17,320	14,805	17,965
12	9,020	17,160	17,965	17,800	17,640	17,800	17,800	17,965	17,480	17,320	14,215	17,965
13	9,020	17,640	17,965	17,800	17,800	17,800	17,965	17,965	17,480	17,320	14,070	17,965
14	9,020	17,800	17,965	17,800	17,965	17,800	17,965	17,800	17,480	17,480	13,925	17,965
15	9,020	17,800	17,965	17,640	17,965	17,965	17,965	17,640	17,640	17,640	13,925	17,965
16	9,020	17,800	17,965	17,640	17,800	17,965	17,965	17,640	17,640	17,640	13,780	17,965
17	8,790	17,965	17,965	17,640	17,965	17,965	17,965	17,640	17,800	17,480	13,780	17,800
18	8,790	17,800	17,800	17,640	18,130	17,965	17,800	17,800	17,965	17,480	13,780	17,800
19	8,790	17,800	17,800	17,480	18,130	18,130	17,800	17,640	17,965	17,480	13,925	17,800
20	8,790	17,640	17,640	17,480	18,130	18,130	17,965	17,800	17,965	17,480	13,925	17,800
21	8,790	17,640	17,480	17,480	18,130	17,965	17,965	17,800	18,130	17,480	13,925	17,800
22	8,790	17,640	17,480	17,480	18,130	17,965	17,965	17,800	18,460	17,320	13,925	17,800
23	8,790	17,800	17,640	17,480	17,965	17,965	17,965	17,800	18,130	17,320	13,925	17,800
24	8,675	17,800	17,480	17,480	17,800	17,640	17,965	17,800	17,640	17,320	14,215	17,965
25	10,890	17,800	17,480	17,480	17,640	17,800	17,965	17,965	17,640	17,160	14,215	17,965
26	10,890	17,800	17,480	17,320	17,640	17,800	17,965	17,965	17,640	17,320	14,650	17,965
27	10,890	17,480	17,480	17,480	17,640	17,800	18,130	17,965	17,640	17,480	15,270	17,965
28	10,890	17,480	17,480	17,480	17,640	17,800	18,130	17,965	17,640	17,480	15,580	18,130
29	10,890	17,480	17,480	17,480	-----	17,800	18,130	17,965	17,480	17,480	15,890	18,130
30	8,675	17,480	17,480	17,640	-----	17,800	18,130	17,965	17,480	17,640	15,890	17,965
31	8,905	-----	17,480	17,640	-----	17,800	-----	17,965	-----	17,320	15,890	-----
MAX	10,890	17,965	17,965	17,965	18,130	18,130	18,130	17,965	18,460	17,800	17,480	18,130
MIN	8,675	8,905	17,480	17,320	17,640	17,640	17,640	17,640	17,000	17,160	13,780	15,890
CHANGE	-1,220	8,575	0	160	0	160	330	-165	-485	-160	-1,430	2,075
CAL YEAR 2001			MEAN	16,685	MAX	18,100	MIN	8,675				
WTR YEAR 2002			MEAN	16,635	MAX	18,460	MIN	8,675				

# NORTH & SOUTH PLATTE RIVER BASIN

## SUTHERLAND POWER RETURN to the South Platte River, 00140000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	245	400	600	401	400	440	545	785	1,730	1,250	465
2	426	235	395	598	399	391	440	547	920	1,730	1,360	465
3	424	235	395	598	398	393	440	546	920	1,730	1,430	345
4	418	235	481	600	400	394	440	555	950	1,730	1,430	335
5	376	235	510	530	397	394	440	555	942	1,730	1,500	335
6	385	269	425	530	398	396	440	555	950	1,700	1,560	270
7	390	271	540	530	395	395	440	555	949	1,180	1,560	270
8	378	304	729	527	405	395	440	555	949	1,380	1,560	270
9	457	340	585	528	405	400	440	555	945	1,410	1,400	270
10	422	344	584	527	405	400	440	555	945	1,500	1,300	265
11	512	355	739	529	450	400	440	546	956	1,550	1,530	265
12	0	341	730	446	602	425	440	544	1,040	1,550	1,530	272
13	168	341	659	435	570	425	440	546	1,150	1,560	1,600	270
14	319	350	657	514	529	575	440	545	1,250	1,470	1,310	270
15	200	350	558	402	539	600	440	330	1,250	1,080	1,310	270
16	215	350	585	390	537	590	440	330	1,260	966	1,310	270
17	210	350	520	390	530	590	445	330	1,250	1,010	1,310	268
18	210	350	520	390	543	590	555	330	1,220	1,160	1,320	264
19	210	350	520	390	548	574	555	330	1,240	1,310	1,310	272
20	283	438	520	390	531	574	555	330	1,240	1,390	1,310	271
21	254	395	520	390	529	575	555	330	1,050	1,420	1,310	274
22	295	405	520	390	532	575	555	330	797	1,490	1,310	284
23	308	392	310	390	541	575	555	330	1,140	1,640	1,310	281
24	150	413	520	390	470	575	555	330	1,350	1,640	1,180	275
25	0	417	520	390	472	445	546	330	1,530	1,660	1,050	465
26	550	536	520	393	400	440	543	330	1,540	1,520	927	468
27	382	419	525	392	400	440	558	330	1,540	1,410	550	465
28	382	396	525	391	400	440	555	335	1,530	1,350	467	472
29	205	395	527	391	-----	440	555	460	1,530	1,350	465	467
30	255	396	601	391	-----	440	544	460	1,560	1,260	465	467
31	235	-----	598	404	-----	440	-----	460	-----	1,250	465	-----
TOTAL	9,287	10,452	16,738	14,156	13,126	14,686	14,671	13,709	34,678	44,856	37,689	9,900
MEAN	300	348	540	457	469	474	489	442	1,156	1,447	1,216	330
MAX	550	536	739	600	602	600	558	555	1,560	1,730	1,600	472
MIN	0	235	310	390	395	391	440	330	785	966	465	264
AC-FT	18,420	20,730	33,200	28,080	26,040	29,130	29,100	27,190	68,780	88,970	74,760	19,640
CAL YEAR 2001	TOTAL	252,268	MEAN	691	MAX	1,690	MIN	0	AC-FT	500,400		
WTR YEAR 2002	TOTAL	233,948	MEAN	641	MAX	1,730	MIN	0	AC-FT	464,000		



# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER near Keystone - 2002

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.

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 3,460 cubic feet per second July 24, gage height 5.58 feet; no flow November 20 to December 2 and January 30 to February 6.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	23	0	15	0	6.8	8.7	151	155	3,150	2,110	257
2	256	24	0	15	0	6.8	8.9	147	152	3,290	2,040	262
3	91	23	.28	15	0	6.8	8.8	144	152	3,350	2,060	265
4	70	23	19	14	0	6.8	9.2	144	150	3,320	2,090	264
5	69	21	22	14	0	6.7	9.4	145	153	3,250	1,990	228
6	39	20	21	15	0	6.5	8.9	146	141	2,040	1,760	207
7	23	19	22	7.5	1.9	6.8	5.7	145	106	1,730	1,600	195
8	45	17	23	3.8	17	6.7	7.3	148	108	2,570	1,600	190
9	44	17	23	15	7.1	6.6	7.4	148	108	2,840	1,220	129
10	37	15	23	15	15	6.6	7.0	147	107	2,910	1,020	17
11	16	15	23	16	10	6.8	6.0	148	109	3,050	1,010	9.7
12	12	16	23	15	9.9	6.9	7.8	149	114	3,140	881	13
13	9.7	17	23	16	11	7.2	8.4	147	135	3,020	516	7.5
14	10	21	23	12	11	8.1	8.9	147	198	2,880	468	5.7
15	9.6	17	23	11	9.7	8.1	9.2	151	296	2,890	450	5.2
16	12	3.7	23	11	9.5	8.1	10	152	329	2,860	447	8.8
17	8.9	17	25	11	9.5	8.6	6.1	152	320	2,850	444	7.7
18	9.1	21	23	12	9.5	9.5	11	153	324	2,860	444	5.8
19	9.1	17	23	12	9.6	8.7	15	155	315	2,950	448	3.6
20	7.7	17	23	12	9.5	8.2	14	155	312	3,040	460	2.9
21	6.2	20	23	13	9.1	8.7	15	155	307	3,070	662	8.3
22	6.1	27	20	13	16	9.1	15	157	309	3,110	875	10
23	5.8	27	19	12	14	10	12	157	358	3,310	428	9.7
24	10	24	18	12	12	10	7.2	160	656	3,420	370	22
25	21	25	18	11	7.6	9.7	8.0	158	1,370	3,310	361	12
26	9.2	25	19	11	6.3	9.5	71	160	2,200	3,070	337	16
27	14	26	18	11	6.8	9.6	141	165	2,710	2,910	373	10
28	13	10	17	11	6.8	9.6	135	158	2,990	2,880	383	10
29	15	0	17	5.3	-----	9.8	115	159	3,110	2,660	379	9.7
30	24	0	16	0	-----	9.2	111	155	3,080	2,370	372	9.9
31	24	-----	15	0	-----	8.8	-----	155	-----	2,290	321	-----
TOTAL	1,136.4	547.7	585.28	356.6	218.8	251.3	807.9	4,713	20,874	90,390	27,919	2,201.5
MEAN	36.7	18.3	18.9	11.5	7.81	8.11	26.9	152	696	2,916	901	73.4
MAX	256	27	25	16	17	10	141	165	3,110	3,420	2,110	265
MIN	5.8	0	0	0	0	6.5	5.7	144	106	1,730	321	2.9
AC-FT	2,250	1,090	1,160	707	434	498	1,600	9,350	41,400	179,300	55,380	4,370
CAL YEAR 2001	TOTAL	142,517.70	MEAN	390	MAX	3,340	MIN	0	AC-FT	282,700		
WTR YEAR 2002	TOTAL	150,001.48	MEAN	411	MAX	3,420	MIN	0	AC-FT	297,500		

# NORTH PLATTE RIVER BASIN

**KEITH - LINCOLN COUNTY CANAL from North Platte River. 00076000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	45	83	87	70
2							0	.80	48	83	87	69
3							0	51	48	80	94	68
4							0	33	45	84	93	68
5							0	33	0	84	86	66
6							0	33	0	64	81	66
7							0	32	0	57	80	36
8							0	33	0	57	80	0
9							0	32	0	59	57	0
10							0	32	12	68	61	
11							0	33	30	65	80	
12							0	32	28	64	79	
13							0	32	27	76	66	
14							0	31	27	79	67	
15							0	31	25	79	33	
16							0	41	38	77	63	
17							0	47	50	88	82	
18							0	47	52	98	82	
19							0	48	52	99	81	
20						0	0	49	53	97	80	
21						0	0	49	54	96	81	
22						0	0	49	55	96	80	
23						0	0	48	56	89	71	
24						0	0	48	67	82	80	
25						0	0	47	76	85	80	
26						0	0	48	74	84	80	
27						0	0	47	84	85	80	
28						0	0	47	82	84	80	
29					-----	0	0	45	88	89	72	
30					-----	0	0	43	85	94	68	
31		-----			-----	0	-----	42	-----	94	69	-----
TOTAL						0	0	1,183.80	1,301	2,519	2,360	443
MEAN						0	0	38.2	43.4	81.3	76.1	49.2
MAX						0	0	51	88	99	94	70
MIN						0	0	0	0	57	33	0
AC-FT						0	0	2,350	2,580	5,000	4,680	879
CAL YEAR 2001	MAX	102	MIN	0	AC-FT	14,960						
WTR YEAR 2002	MAX	99	MIN	0	AC-FT	15,480						

# NORTH PLATTE RIVER BASIN

**NORTH PLATTE CANAL from North Platte River, 00114000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	96	81	293	223	154
2							0	98	75	287	218	158
3							0	77	66	275	230	155
4							0	79	55	273	229	154
5							0	95	46	266	217	115
6							0	103	42	255	207	57
7							0	102	67	247	235	57
8							0	100	67	260	240	26
9							0	98	66	275	251	0
10							0	96	68	279	245	
11							0	100	77	265	252	
12							0	103	89	265	233	
13							0	102	88	259	208	
14							0	101	89	252	201	
15							3.3	100	108	254	201	
16							3.7	102	136	251	200	
17							17	102	153	256	194	
18							29	101	149	266	199	
19						0	34	109	146	268	220	
20						0	40	122	147	264	228	
21						0	40	121	147	255	241	
22						0	41	121	166	259	251	
23						0	41	112	177	261	235	
24						0	40	108	216	267	221	
25						0	56	109	255	269	204	
26						0	68	109	294	250	208	
27						0	88	104	291	231	216	
28						0	70	99	282	235	200	
29					-----	0	73	95	291	245	178	
30					-----	0	95	81	292	241	171	
31		-----			-----	0	-----	81	-----	251	162	-----
TOTAL						0	739.0	3,126	4,226	8,074	6,718	876
MEAN						0	24.6	101	141	260	217	97.3
MAX						0	95	122	294	293	252	158
MIN						0	0	77	42	231	162	0
AC-FT						0	1,470	6,200	8,380	16,010	13,330	1,740
CAL YEAR 2001	MAX	332	MIN	0	AC-FT	42,470						
WTR YEAR 2002	MAX	294	MIN	0	AC-FT	47,130						

## NORTH PLATTE RIVER BASIN

## PAXTON-HERSHEY CANAL from North Platte River, 00121000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	40	52	90	90	50
2							0	48	55	90	90	57
3							0	46	64	91	81	61
4							0	47	60	91	78	59
5							0	46	48	90	77	66
6							0	40	45	87	70	54
7							0	39	45	85	67	49
8							0	39	45	87	69	40
9							0	37	44	95	71	13
10							0	37	43	93	68	0
11							0	36	38	97	68	
12							0	35	28	93	73	
13							0	34	25	92	84	
14							0	33	33	90	84	
15							0	32	52	88	79	
16							0	33	55	93	79	
17							0	40	47	96	77	
18							0	40	45	97	80	
19						0	0	37	43	97	82	
20						0	0	31	41	98	83	
21						0	0	32	41	95	87	
22						0	0	27	46	90	87	
23						0	0	31	48	85	83	
24						0	0	36	47	84	77	
25						0	0	42	59	85	75	
26						0	0	38	73	85	71	
27						0	0	40	80	84	61	
28						0	24	47	91	83	56	
29					-----	0	0	48	91	82	52	
30					-----	0	28	56	91	84	51	
31		-----			-----	0	-----	53	-----	84	51	-----
TOTAL						0	52	1,220	1,575	2,781	2,301	449
MEAN						0	1.73	39.4	52.5	89.7	74.2	44.9
MAX						0	28	56	91	98	90	66
MIN						0	0	27	25	82	51	0
AC-FT						0	103	2,420	3,120	5,520	4,560	891
CAL YEAR 2001	MAX	122	MIN	0	AC-FT	16,220						
WTR YEAR 2002	MAX	98	MIN	0	AC-FT	16,620						

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER near Sutherland, 06691000 - 2002

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. Records are good, except estimated records are poor.

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 3,360 cubic feet per second July 7, gage height 6.03 feet; minimum daily flow 39 cubic feet per second April 26.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	138	130E	120E	140E	82E	114	62	51	2,310	1,860	118
2	236	130	130	120E	146	88E	111	75	51	2,330	1,660	88
3	279	125	132	118E	143	92E	107	80	50	2,510	1,600	79
4	181	125	136	118E	139	96E	111	82	108	2,650	1,610	84
5	176	127	139	116E	139	100E	112	84	127	2,710	1,760	134
6	176	123	141	120E	134	100E	112	86	129	2,870	1,650	152
7	163	122	145	122	133	106E	114	79	121	2,190	1,330	157
8	142	119	151	124	131	108E	108	82	104	1,670	1,210	223
9	135	117	153	128	130E	110E	108	80	78	2,130	1,230	292
10	129	124	149	132	120E	112E	105	78	62	2,430	823	292
11	138	125	146	140	116E	112E	101	81	49	2,620	692	221
12	140	127	141	142	115	110	95	76	47	2,770	689	189
13	144	125	141	136	116	107	100	76	46	2,980	526	180
14	142	132	143	132	112	106	98	74	47	2,940	304	163
15	139	127	137	136	115	121	104	73	52	2,710	267	156
16	133	123	136	142	121	123	97	75	83	2,640	232	146
17	141	125	136	146	120	121	88	67	100	2,590	167	143
18	143	122	134	147	121	121	76	63	110	2,520	148	139
19	141	119	137	153	125	120	63	58	116	2,480	129	128
20	144	123	136	163	126	119	59	51	117	2,570	125	124
21	140	127	137	160	129	120	61	47	122	2,670	124	116
22	141	126	139	153	130	120	60	48	103	2,730	212	116
23	136	127	126	147	131	119	63	46	88	2,770	258	115
24	132	125E	98E	154	135	116	59	43	80	2,970	99	115
25	129	130E	125E	166	122E	122	50	46	238	3,190	93	113
26	127	130E	120E	159	100E	113	44	49	869	3,260	87	108
27	127	125E	125E	154	98E	113	51	50	1,450	3,030	80	108
28	134	120E	130E	150E	98E	112	79	51	1,900	2,800	101	104
29	133	125E	100E	145E	-----	111	102	52	2,130	2,740	121	104
30	132	130E	116E	135E	-----	109	79	51	2,240	2,570	128	104
31	140	-----	120E	140E	-----	109	-----	50	-----	2,130	130	-----
TOTAL	4,674	3,763	4,129	4,318	3,485	3,418	2,631	2,015	10,868	81,480	19,445	4,311
MEAN	151	125	133	139	124	110	87.7	65.0	362	2,628	627	144
MAX	279	138	153	166	146	123	114	86	2,240	3,260	1,860	292
MIN	127	117	98	116	98	82	44	43	46	1,670	80	79
AC-FT	9,270	7,460	8,190	8,560	6,910	6,780	5,220	4,000	21,560	161,600	38,570	8,550
CAL YEAR 2001	TOTAL	138,495	MEAN	379	MAX	3,120	MIN	27	AC-FT	274,700		
WTR YEAR 2002	TOTAL	144,537	MEAN	396	MAX	3,260	MIN	43	AC-FT	286,700		

E indicates estimated discharge.

## NORTH PLATTE RIVER BASIN

## BIRDWOOD CANAL from Birdwood Creek, 00016000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0						0	.1	30.4	39.5	39.4	35.7
2	13.2						0	12.0	27.6	34.9	38.9	29.5
3	13.4						0	16.4	28.6	37.3	38.9	30.5
4	14.0						0	19.8	34.1	37.1	38.6	31.5
5	16.2						0	27.0	31.5	37.7	39.6	34.5
6	15.5						0	27.0	29.6	36.6	38.8	29.5
7	14.4						0	27.2	28.9	35.9	38.1	29.0
8	14.4						0	31.5	30.5	35.8	38.4	29.0
9	14.2						0	27.4	30.2	34.5	38.6	28.5
10	14.1						0	15.6	30.2	34.5	40.5	25.6
11	13.7						0	16.9	31.0	39.1	41.7	23.8
12	14.5						0	16.2	30.1	40.8	40.2	24.2
13	14.7						0	17.8	28.2	40.8	38.6	25.1
14	9.9						0	20.1	27.2	40.7	41.4	24.7
15	1.2						0	18.0	28.4	41.6	41.6	24.7
16	1.2						0	19.5	33.0	41.7	41.6	24.2
17	1.2						0	20.2	28.9	41.5	40.4	24.2
18	1.2						0	20.2	31.8	41.5	40.9	24.7
19	1.2						0	20.0	32.8	40.3	39.7	24.2
20	1.2						0	20.1	33.7	39.7	38.3	24.2
21	1.2						0	19.7	31.4	39.5	41.0	24.2
22	0						0	20.7	30.4	39.6	41.4	24.2
23	0						0	20.9	30.4	40.0	41.7	24.7
24	0						16.2	21.2	34.4	39.9	43.2	25.1
25	0						21.9	21.6	40.9	39.6	41.3	25.1
26	0						9.6	24.8	40.0	38.8	41.7	25.1
27	0						1.3	29.3	39.8	36.6	38.7	25.6
28	0						1.2	32.9	39.8	38.3	37.5	25.6
29	0				-----		.4	33.8	39.5	40.0	38.3	25.1
30	0				-----		.1	30.9	39.5	39.2	36.5	24.7
31	0	-----			-----		-----	29.7	-----	39.2	35.9	-----
TOTAL	203.6						50.7	678.5	972.8	1,202.2	1,231.4	796.7
MEAN	6.6						1.7	21.9	32.4	38.8	39.7	26.6
MAX	16.2						21.9	33.8	40.9	41.7	43.2	35.7
MIN	0						0	.1	27.2	34.5	35.9	23.8
AC-FT	404						101	1,346	1,930	2,385	2,442	1,580
CAL YEAR 2001	MAX	38.0	MIN	0	AC-FT	6,135						
WTR YEAR 2002	MAX	43.2	MIN	0	AC-FT	10,188						

# NORTH PLATTE RIVER BASIN

**BIRDWOOD CREEK near Hershey, 06692000 - 2002**

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 good, except estimated records are poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 192 cubic feet per second April 28, gage height 1.50 feet; maximum gage height 1.63 feet March 4 due to backwater from ice; minimum daily discharge 97 cubic feet per second August 1, 16, 17, 26.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	165	156	146	157	156E	170	167	124	114	97	118E
2	169	161	162	145	160	150E	159	152	122	124	98	116E
3	164	165	158	149	159	146E	154	138	119	118	101	116E
4	162	164	159	150	159	144E	160	138	137	116	105	116
5	167	164	161	152	161	150E	163	138	127	113	125	140
6	163	165	157	152	162	160E	165	140	119	122	116	123
7	166	163	156	155	163	168	167	136	120	147	105	122
8	168	153	153	159	165	165	169	138	124	132	105	121
9	170	155	156	163	166	159	163	129	120	129	111	132
10	165	156	156	159	149	167	165	127	118	125	106	148
11	163	155	154	155	162	178	167	134	120	117	105	137
12	165	159	158	154	161	182	165	129	120	114	101	138
13	165	161	154	159	159	182	165	127	120	116	100	142
14	165	162	155	154	164	173	163	138	120	117	100	137
15	176	162	157	152	163	167	164	145	127	117	98	134
16	169	160	157	151	167	169	162	145	148	113	97	134
17	173	163	151	152	169	170	158	145	130	113	97	135
18	172	161	155	149	172	171	159	142	129	114	102	134
19	172	155	155	150	170	167	150	139	128	111	102	132
20	170	157	154	155	170	168	151	137	131	108	100	133
21	171	158	156	156	168	158	162	136	131	106	104	131
22	174	157	153	157	169	161	157	139	127	106	102	133
23	174	163	150	159	174	169	157	135	129	106	101	135
24	170	182	152	157	172	166	132	134	126	106	102	136
25	163	159	151	158	158	161	120	138	130	106	100	139
26	164	161	153	163	153	169	145	135	126	117	97	137
27	165	145	153	162	163E	173	178	130	122	129	122	138
28	169	153	152	155	163E	172	181	136	120	115	122E	139
29	165	149	146E	151	-----	167	168	132	117	107	120E	138
30	163	153	147	153	-----	169	164	129	115	103	120E	141
31	168	-----	146	158	-----	174	-----	128	-----	98	118E	-----
TOTAL	5,198	4,786	4,783	4,790	4,578	5,131	4,803	4,256	3,746	3,579	3,279	3,975
MEAN	168	160	154	155	164	166	160	137	125	115	106	133
MAX	176	182	162	163	174	182	181	167	148	147	125	148
MIN	162	145	146	145	149	144	120	127	115	98	97	116
AC-FT	10,310	9,490	9,490	9,500	9,080	10,180	9,530	8,440	7,430	7,100	6,500	7,880
CAL YEAR 2001 TOTAL		57,375	MEAN	157	MAX	232	MIN	112	AC-FT	113,800		
WTR YEAR 2002 TOTAL		52,904	MEAN	145	MAX	182	MIN	97	AC-FT	104,900		

E indicates estimated discharge.

## NORTH PLATTE RIVER BASIN

## SUBURBAN CANAL from North Platte River, 00136000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	58	62	82	104	64
2							0	71	62	88	86	63
3							0	72	59	95	85	57
4							0	60	48	93	84	49
5							0	65	41	89	98	47
6							0	58	38	90	101	45
7							0	53	30	83	94	46
8							0	54	37	83	85	43
9							0	53	34	86	87	40
10							0	52	43	86	83	38
11							0	48	46	77	77	36
12							0	51	45	80	69	15
13							0	60	48	85	75	0
14							0	61	54	83	74	0
15							0	68	61	87	83	0
16							3.5	71	66	92	86	0
17							9.1	72	67	88	75	0
18							9.5	69	57	88	78	0
19							9.5	66	34	92	84	0
20						0	9.6	67	37	89	81	0
21						0	9.7	70	37	90	75	0
22						0	9.0	74	36	91	85	0
23						0	16	75	37	101	89	0
24						0	17	75	44	101	78	0
25						0	21	75	60	108	72	0
26						0	32	73	67	109	71	0
27						0	8.1	69	67	105	90	0
28						0	7.9	67	83	105	76	0
29					-----	0	41	66	81	105	68	0
30					-----	0	60	65	80	103	67	0
31		-----			-----	0	-----	62	-----	101	66	-----
TOTAL						0	262.9	2,000	1,561	2,855	2,526	543
MEAN						0	8.76	64.5	52.0	92.1	81.5	31.9
MAX						0	60	75	83	109	104	64
MIN						0	0	48	30	77	66	0
AC-FT						0	521	3,970	3,100	5,660	5,010	1,080
CAL YEAR 2001	MAX	114	MIN	0	AC-FT	15,810						
WTR YEAR 2002	MAX	109	MIN	0	AC-FT	19,330						



# NORTH PLATTE RIVER BASIN

**CODY-DILLON CANAL from North Platte River, 00027000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	3.5	7.6	31	27	33
2							0	2.6	10	33	28	31
3							0	1.5	14	35	31	24
4							0	1.1	22	37	31	21
5							0	2.4	22	34	33	25
6							0	4.2	20	31	30	33
7							0	3.6	20	30	24	25
8							0	4.4	18	17	23	23
9							0	3.5	13	27	31	27
10							0	4.8	9.0	32	23	30
11							0	8.0	6.2	26	9.8	25
12							0	7.5	4.9	21	21	16
13							0	5.4	4.8	23	15	11
14							0	5.4	11	24	9.8	10
15							.05	7.2	21	23	6.2	9.6
16							.16	10	21	26	1.2	9.0
17							.13	9.9	23	28	9.6	8.3
18							.85	6.1	22	29	23	8.2
19						0	1.2	5.7	25	29	23	8.3
20						0	1.1	4.8	27	29	16	7.6
21						0	1.5	5.5	26	29	14	7.7
22						0	1.6	6.6	24	26	18	7.3
23						0	1.5	5.2	21	26	40	7.3
24						0	1.5	3.8	22	34	22	6.9
25						0	.73	3.9	26	39	15	5.9
26						0	.38	5.6	37	36	16	5.6
27						0	3.6	5.9	39	31	20	4.9
28						0	7.2	6.7	26	28	27	4.5
29					-----	0	9.7	6.3	20	24	36	4.0
30					-----	0	7.3	6.5	25	24	37	3.9
31		-----			-----	0	-----	6.7	-----	29	34	-----
TOTAL						0	38.50	164.3	587.5	891	694.6	443.0
MEAN						0	1.28	5.30	19.6	28.7	22.4	14.8
MAX						0	9.7	10	39	39	40	33
MIN						0	0	1.1	4.8	17	1.2	3.9
AC-FT						0	76	326	1,170	1,770	1,380	879
CAL YEAR 2001	MAX	30	MIN	0	AC-FT	2,360						
WTR YEAR 2002	MAX	40	MIN	0	AC-FT	5,590						

# NORTH PLATTE RIVER BASIN

## LINCOLN COUNTY DRAIN NO. 1 at North Platte, 06692500 - 2002

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 114 cubic feet per second September 5, gage height 2.14 feet; minimum daily discharge 16 cubic feet per second April 2 & 3.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	32	28	23	21	20E	17	42	72	35	79	107
2	48	31	28	23	21	20E	16	52	75	39	87	98
3	46	31	28	23	21	21E	16	44	76	39	90	85
4	45	31	28	23	21	22E	17	39	89	40	90	89
5	45	31	28	23	21	20E	17	43	55	41	99	105
6	44	31	28	23	21	19	18	55	46	48	88	88
7	44	30	27	23	21	19	18	58	40	65	90	84
8	44	30	27	23	21	20	18	60	42	66	90	86
9	43	30	27	23	20	19E	18	53	47	60	85	70
10	41	30	27	22	20E	19	18	49	46	56	81	68
11	41	30	27	23	21	19	17	53	44	59	90	68
12	41	30	27	23	20	19	17	55	46	63	93	66
13	41	30	26	23	20	18	17	53	48	64	94	64
14	40	30	27	22	20	18	17	51	46	63	84	62
15	40	30	26	22	20	18	17	58	48	62	85	60
16	38	30	26	22	20	18	17	61	54	53	86	63
17	39	30	26	22	20	18	17	61	62	57	75	59
18	38	29	25	21	21	17	17	53	56	65	76	57
19	38	29	25	21	21	17	18	51	47	70	84	55
20	38	29	25	21	21	17	22	48	43	76	73	54
21	37	29	25	21	20	17	22	51	39	74	77	53
22	37	29	25	21	20	17	21	59	38	72	69	54
23	37	29	24	21	20	17	19	55	38	69	78	53
24	36	29	24	21	20	17	18	59	31	59	84	53
25	36	28	24	21	20	17	21	62	39	56	92	52
26	36E	28	24	21	20E	17	25	60	37	60	84	50
27	36E	28E	24	21	20E	17	34	61	38	64	79	49
28	36	28	24	21	21	17	39	67	36	72	90	48
29	34	28	23	21	-----	17	33	67	34	69	88	48
30	32	28	23	21	-----	17	34	68	32	64	89	46
31	34	-----	23	21	-----	17	-----	73	-----	79	106	-----
TOTAL	1,233	888	799	680	573	565	615	1,721	1,444	1,859	2,655	1,994
MEAN	39.8	29.6	25.8	21.9	20.5	18.2	20.5	55.5	48.1	60.0	85.6	66.5
MAX	48	32	28	23	21	22	39	73	89	79	106	107
MIN	32	28	23	21	20	17	16	39	31	35	69	46
AC-FT	2,450	1,760	1,580	1,350	1,140	1,120	1,220	3,410	2,860	3,690	5,270	3,960
CAL YEAR 2001	TOTAL	17,965	MEAN	49.2	MAX	163	MIN	19	AC-FT	35,630		
WTR YEAR 2002	TOTAL	15,026	MEAN	41.2	MAX	107	MIN	16	AC-FT	29,800		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at North Platte, 06693000 - 2002

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 2,740 cubic feet per second July 27, gage height 6.15 feet; minimum daily discharge 185 cubic feet per second June 25.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298	256	360E	370E	300E	260E	322	245	215	1,830	1,940	349
2	318	244	370E	360E	300E	290E	315	245	219	1,940	1,800	314
3	351	236	390E	360E	296	300E	312	244	218	2,030	1,650	270
4	365	237	307	350E	291	310E	306	239	260	2,160	1,620	269
5	329	239	295	340E	293	320E	309	241	296	2,290	1,680	333
6	319	241	292	340E	294	340E	306	272	290	2,390	1,780	365
7	309	251	282	340E	291	350E	301	265	283	2,550	1,570	355
8	287	258	282	340E	289	360E	300	267	278	1,990	1,290	349
9	269	258	280	350E	291	380E	309	260	269	1,640	1,240	386
10	269	261	274	360E	294	400E	305	245	249	1,860	1,170	460
11	274	265	280	352	296	452	305	242	229	2,090	875	425
12	275	258	284	339	306	452	300	237	206	2,250	756	402
13	286	257	286	331	307	403	289	226	199	2,340	712	411
14	285	258	280	329	308	377	276	210	194	2,440	549	382
15	288	253	278	329	309	364	271	204	188	2,420	410	359
16	291	252	278	335	311	358	265	216	204	2,240	361	345
17	280	252	276	342	316	353	263	226	219	2,160	325	323
18	263	252	275	347	321	344	258	228	217	2,170	286	318
19	256	259	283	361	316	341	258	226	210	2,150	280	313
20	258	265	283	352	310	329	261	216	210	2,130	258	298
21	266	265	271	346	309	327	263	205	217	2,190	246	297
22	272	262	269	335	305	320	262	205	211	2,280	249	295
23	273	340E	252	329	301	323	254	193	198	2,370	319	304
24	273	340E	300E	329	299	320	236	187	187	2,400	373	298
25	270	340E	310E	330	298	314	217	193	185	2,440	306	285
26	258	340E	320E	328	280E	309	207	189	304	2,590	282	301
27	254	300E	330E	317	260E	309	241	191	757	2,730	257	315
28	250	330E	350E	314	280E	316	285	205	1,160	2,660	259	315
29	256	340E	370E	321	-----	314	295	202	1,440	2,460	306	316
30	253	350E	370E	320E	-----	314	268	202	1,650	2,310	332	316
31	254	-----	370E	310E	-----	316	-----	207	-----	2,210	346	-----
TOTAL	8,749	8,259	9,447	10,506	8,371	10,565	8,359	6,933	10,962	69,710	23,827	10,068
MEAN	282	275	305	339	299	341	279	224	365	2,249	769	336
MAX	365	350	390	370	321	452	322	272	1,650	2,730	1,940	460
MIN	250	236	252	310	260	260	207	187	185	1,640	246	269
AC-FT	17,350	16,380	18,740	20,840	16,600	20,960	16,580	13,750	21,740	138,300	47,260	19,970

CAL YEAR 2001	TOTAL	216,795	MEAN	594	MAX	3,500	MIN	224	AC-FT	430,000
WTR YEAR 2002	TOTAL	185,756	MEAN	509	MAX	2,730	MIN	185	AC-FT	368,400

E indicates estimated discharge.

## SOUTH PLATTE RIVER BASIN

## LODGEPOLE CREEK above Oliver Reservoir, 06762500 - 2002

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								2.6	1.5	1.5	.41	.46
2								2.6	1.5	1.3	.39	.48
3								2.5	4.5	1.2	.39	.50
4								2.4	12	1.1	.42	.49
5								2.2	3.2	1.0	.42	.50
6								2.2	2.1	.88	.44	.54
7								2.2	1.9	.86	.46	.54
8								2.0	1.9	.82	.51	.53
9								2.0	1.9	.73	.51	.62
10								2.1	2.0	.65	.55	.55
11								2.1	2.0	.53	.53	.54
12								2.0	1.9	.55	.55	.56
13								2.1	1.9	.53	.65	.59
14								2.0	1.9	.55	.68	.59
15								2.0	1.8	.49	.62	.67
16								2.0	1.8	.49	.51	.87
17								2.1	1.9	.53	.44	.80
18								2.0	1.8	.41	.39	.79
19								1.9	1.8	.39	.36	.76
20								1.8	1.8	.41	.35	.81
21								1.7	1.9	.29	.31	.83
22								1.6	1.9	.18	.28	.72
23								1.5	1.9	.17	.30	.70
24								1.5	1.9	.20	.33	.72
25								1.5	1.7	.25	.33	.74
26								1.5	1.5	.27	.35	.66
27								1.4	1.5	.33	.37	.71
28								1.4	1.5	.39	.36	.63
29					-----			1.3	1.5	.42	.39	.61
30					-----			1.3	1.6	.44	.41	.72
31		-----			-----		-----	1.4	-----	.47	.45	-----
TOTAL								58.9	68.0	18.33	13.46	19.23
MEAN								1.90	2.27	.59	.43	.64
MAX								2.6	12	1.5	.68	.87
MIN								1.3	1.5	.17	.28	.46
AC-FT								117	135	36	27	38
CAL YEAR 2001	MAX	5.2	MIN	.79	AC-FT	702						
WTR YEAR 2002	MAX	12	MIN	.17	AC-FT	353						

# SOUTH PLATTE RIVER BASIN

**OLIVER RESERVOIR on Lodgepole Creek, 00407000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,236											
2												
3												
4												
5												
6												
7												
8												
9												
10									1,882			
11												
12												
13		1,584										
14												
15							1,710					
16												
17												
18												
19												
20								1,880				
21												
22												
23												
24												
25												
26									1,643			
27												
28												
29					-----							
30					-----			1,743				
31		-----			-----			-----				-----

## SOUTH PLATTE RIVER BASIN

## LODGEPOLE CREEK below Oliver Reservoir, 00219000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								.18	.18	.06	0	.04
2								.18	.18	.06	.02	.05
3								.18	.30	.10	0	.06
4								.16	.36	.12	.05	.06
5								.12	.30	.12	.06	.06
6								.12	.18	.06	.05	.06
7								.12	.18	.12	.02	.06
8								.18	.18	.06	.02	.06
9								.12	.18	.06	.03	.06
10								.06	.18	.06	.02	.06
11								.12	.18	.06	0	.06
12								.12	.18	.06	0	.06
13								.18	.18	.06	.06	.06
14								.18	.18	.06	.14	.06
15								.13	.18	.06	0	.05
16								.12	.18	.05	0	.03
17								.18	.18	.04	0	0
18								.12	.16	.04	0	0
19								.12	.18	.04	0	.04
20								.12	.18	.03	0	.06
21								.12	.18	.08	0	.06
22								.12	.18	.12	0	.06
23								.12	.18	.06	0	.06
24								.12	.18	.06	0	.06
25								.12	.18	.06	0	.06
26								.12	.14	.06	0	.06
27								.12	.12	.06	0	.06
28								.12	.12	.06	0	.06
29					-----			.12	.12	.05	.04	.06
30					-----			.13	.12	.04	.05	.06
31		-----			-----		-----	.18	-----	.03	.04	-----
TOTAL								4.20	5.52	2.00	0.60	1.59
MEAN								.14	.18	.065	.019	.053
MAX								.18	.36	.12	.14	.06
MIN								.06	.12	.03	0	0
AC-FT								8.3	11	4.0	1.2	3.2
CAL YEAR 2001	MAX	.42	MIN	.05	AC-FT	55						
WTR YEAR 2002	MAX	.36	MIN	0	AC-FT	28						

# SOUTH PLATTE RIVER BASIN

**LOGGEPOLLE CREEK at Ralton, 06763500 - 2002**

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 near Nebraska Highway 23, 5.5 miles southeast of Chappell, NE near 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. Records of discharge are poor.

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.--Peak discharge 0.54 cubic feet per second March 12, gage height 2.01 feet; no flow October, November, December, January, February, March 1-5, July 5, 29, August 11-31, and September.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	.25	.13	.11	.06	.06	0
2	0	0	0	0	0	0	.26	.14	.10	.06	.01	0
3	0	0	0	0	0	0	.27	.13	.11	.06	.08	0
4	0	0	0	0	0	0	.28	.13	.16	.03	.06	0
5	0	0	0	0	0	0	.28	.14	.17	0	.01	0
6	0	0	0	0	0	.02	.27	.15	.15	.18	.01	0
7	0	0	0	0	0	.02E	.27	.17	.14	.31	.09	0
8	0	0	0	0	0	.02E	.30	.18	.13	.19	.13	0
9	0	0	0	0	0	.06E	.30	.18	.12	.18	.11	0
10	0	0	0	0	0	.10E	.30	.17	.11	.18	.06	0
11	0	0	0	0	0	.35	.30	.18	.10	.19	0	0
12	0	0	0	0	0	.44	.29	.17	.10	.19	0	0
13	0	0	0	0	0	.42	.28	.17	.08	.19	0	0
14	0	0	0	0	0	.33	.27	.16	.08	.18	0	0
15	0	0	0	0	0	.28	.26	.17	.08	.19	0	0
16	0	0	0	0	0	.29	.25	.18	.09	.19	0	0
17	0	0	0	0	0	.28	.23	.19	.09	.16	0	0
18	0	0	0	0	0	.29	.22	.19	.08	.18	0	0
19	0	0	0	0	0	.27	.22	.18	.08	.17	0	0
20	0	0	0	0	0	.26	.22	.19	.10	.18	0	0
21	0	0	0	0	0	.20	.22	.19	.10	.15	0	0
22	0	0	0	0	0	.25	.19	.17	.10	.19	0	0
23	0	0	0	0	0	.30	.16	.17	.09	.18	0	0
24	0	0	0	0	0	.26	.14	.17	.10	.18	0	0
25	0	0	0	0	0	.17	.15	.18	.10	.17	0	0
26	0	0	0	0	0	.28	.17	.19	.11	.18	0	0
27	0	0	0	0	0	.29	.17	.16	.10	.19	0	0
28	0	0	0	0	0	.26	.15	.14	.08	.06	0	0
29	0	0	0	0	-----	.26	.12	.13	.07	0	0	0
30	0	0	0	0	-----	.25	.11	.12	.07	.16	0	0
31	0	-----	0	0	-----	.25	-----	.10	-----	.13	0	-----
TOTAL	0	0	0	0	0	6.20	6.90	5.02	3.10	4.66	0.62	0
MEAN	0	0	0	0	0	.20	.23	.16	.10	.15	.020	0
MAX	0	0	0	0	0	.44	.30	.19	.17	.31	.13	0
MIN	0	0	0	0	0	0	.11	.10	.07	0	0	0
AC-FT	0	0	0	0	0	12	14	10	6.1	9.2	1.2	0
WTR YEAR 2002	TOTAL	26.50	MEAN	.073	MAX	.44	MIN	0	AC-FT	53		

E indicates estimated discharge.

## SOUTH PLATTE RIVER BASIN

## WESTERN CANAL from South Platte River, 00147000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51						0	0	36	9.1	24	21
2	79						0	12	36	60	24	74
3	79						0	46	34	70	24	115
4	75						0	44	93	70	23	117
5	60						0	41	75	57	37	120
6	57						0	39	73	18	29	92
7	54						0	38	76	0	25	37
8	51						0	54	78	0	23	16
9	51						0	56	65	0	23	15
10	54						0	59	52	0	23	7.3
11	57						0	53	57	0	18	20
12	61						0	42	47	0	18	19
13	68						0	36	39	0	23	18
14	77						0	34	37	0	22	19
15	73						0	32	38	0	21	19
16	53						0	35	39	0	21	18
17	61						0	29	36	8.9	23	18
18	56						0	32	32	30	25	18
19	52						0	29	30	30	23	19
20	28						0	31	30	30	19	18
21	0						0	32	30	30	20	18
22	0					0	0	31	22	30	20	19
23	0					0	0	32	23	26	19	20
24	0					0	0	34	22	27	35	18
25						0	0	35	16	26	25	16
26						0	0	37	2.4	25	24	18
27						0	0	33	.21	25	24	19
28						0	0	31	.99	24	23	20
29					-----	0	0	31	.16	24	24	20
30					-----	0	0	31	.46	21	26	20
31		-----			-----	0	-----	29	-----	20	22	-----
TOTAL	1,197					0	0	1,098	1,120.22	661.0	730	988.3
MEAN	49.9					0	0	35.4	37.3	21.3	23.5	32.9
MAX	79					0	0	59	93	70	37	120
MIN	0					0	0	0	.16	0	18	7.3
AC-FT	2,370					0	0	2,180	2,220	1,310	1,450	1,960
CAL YEAR 2001	MAX	195	MIN	0	AC-FT	23,100						
WTR YEAR 2002	MAX	120	MIN	0	AC-FT	11,490						



# SOUTH PLATTE RIVER BASIN

**SOUTH PLATTE RIVER at North Platte, 06765500 - 2002**

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 2,980 cubic feet per second July 7, gage height 8.39 feet; minimum daily discharge 69 cubic feet per second September 26.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	129	201	200E	191	180E	200	137	124	103	110E	91
2	115	135	204	210E	200E	175E	192	145	132	101	100E	86
3	106	139	222	220E	210E	170E	185	165	132	97	108E	91
4	112	142	244	230E	199	180E	206	159	149	97	108E	93
5	138	142	236	210E	185E	190E	205	149	143	97	108E	101
6	125	133	225	202	180	200E	208	173	141	106	108E	98
7	114	131	226	220E	187	210E	208	151	151	1,130	106E	95
8	119	134	229	233	192	200E	219	143	153	1,320	106E	94
9	122	136	221	205	192	190E	211	134	140	497	104E	107
10	110	138	215	204	190E	200E	214	135	126	331	102E	115
11	106	148	201	203	189	220E	216	150	128	274	100E	108
12	108	143	195	184	194	239	204	167	124	233	98E	108
13	129	154	201	170	190	253	213	171	112	223	96E	95
14	142	159	184	165	192	246	202	173	112	201	94E	88
15	159	153	201	170E	189	212	199	158	130	198	92E	85
16	157	139	212	180E	172	206	213	169	128	185	90E	81
17	148	158	206	180E	184	204	204	169	121	183	86E	78
18	132	171	201	175E	190	205	170	170	108	156	84E	76
19	128	169	203	170E	181	193	128	161	108	151	82E	75
20	137	175	184	171	197	189	136	153	109	149	82E	76
21	140	167	195	173	192	190E	148	161	119	147	82	73
22	143	162	199	170	181	190E	129	160	107	136	87	75
23	138	180	195E	179	202	191	133	153	97	126E	89	74
24	133	195	195E	175E	199	196	129	148	97	124E	84	71
25	130	187	190E	176	190E	200E	136	151	99	122E	86	71
26	130	185E	200E	179	180E	213	144	155	101	120E	81	69
27	130	180E	195E	188	185E	214	162	155	97	118E	87	73
28	126	180E	190E	185E	190E	214	142	154	97	116E	99	73
29	126	190E	185E	190E	-----	212	123	155	98	144E	96	76
30	123	195E	180E	190E	-----	206	130	150	99	112E	93	75
31	127	-----	190E	190E	-----	193	-----	136	-----	110E	86	-----
TOTAL	3,975	4,749	6,325	5,897	5,323	6,281	5,309	4,810	3,582	7,207	2,934	2,571
MEAN	128	158	204	190	190	203	177	155	119	232	94.6	85.7
MAX	159	195	244	233	210	253	219	173	153	1,320	110	115
MIN	106	129	180	165	172	170	123	134	97	97	81	69
AC-FT	7,880	9,420	12,550	11,700	10,560	12,460	10,530	9,540	7,100	14,300	5,820	5,100
CAL YEAR 2001 TOTAL		95,837	MEAN	263	MAX	1,280	MIN	106	AC-FT	190,100		
WTR YEAR 2002 TOTAL		58,963	MEAN	162	MAX	1,320	MIN	69	AC-FT	117,000		

E indicates estimated discharge.

## PLATTE RIVER BASIN

## TRI-COUNTY CANAL from Platte River, 00142000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	773	618	1,050	858	1,040	463	1,020	998	1,020	2,290	2,280	923
2	786	624	1,040	963	1,040	439	965	982	1,230	2,310	2,280	901
3	861	645	1,090	1,060	1,060	664	892	1,000	1,290	2,300	2,260	711
4	916	548	1,090	1,120	1,020	877	925	1,070	1,290	2,290	2,270	655
5	850	683	1,020	998	995	757	959	826	1,330	2,280	2,270	633
6	811	643	1,020	1,210	968	1,140	1,030	1,040	1,360	2,290	2,260	662
7	801	637	1,140	1,200	969	957	982	991	1,350	2,290	2,260	550
8	754	642	1,140	1,190	978	978	1,010	1,010	1,360	2,280	2,250	525
9	737	703	1,090	1,180	975	819	1,030	957	1,290	2,300	2,260	671
10	748	722	1,160	1,200	1,010	1,030	1,020	928	1,250	2,310	2,260	689
11	816	617	1,090	1,160	956	1,120	1,020	1,070	1,200	2,300	2,230	645
12	474	812	1,120	968	1,080	1,170	1,030	892	1,240	2,300	2,250	659
13	578	753	1,110	894	1,000	1,180	1,040	974	1,370	2,290	2,270	742
14	637	769	1,100	933	974	1,290	959	946	1,470	2,280	2,090	698
15	786	804	1,100	956	1,020	1,220	984	684	1,520	2,280	1,910	663
16	710	801	1,110	932	995	1,120	987	951	1,540	2,290	1,820	666
17	709	775	1,110	969	951	1,140	960	954	1,540	2,300	1,760	598
18	687	750	1,080	962	1,030	1,130	997	779	1,500	2,290	1,710	540
19	684	883	1,080	837	993	1,120	923	767	1,510	2,290	1,700	871
20	685	832	1,070	949	1,000	1,130	1,010	805	1,510	2,290	1,670	677
21	570	870	1,080	950	1,000	1,110	890	708	1,390	2,290	1,650	687
22	686	826	1,080	1,030	1,000	1,080	972	757	1,250	2,290	1,660	705
23	694	812	592	1,000	996	1,100	906	747	1,330	2,300	1,780	719
24	633	1,040	824	991	960	1,120	882	739	1,490	2,310	1,750	657
25	423	894	1,000	982	1,000	1,010	838	797	1,720	2,300	1,480	851
26	572	1,010	1,040	978	576	977	862	726	1,750	2,300	1,390	825
27	644	631	1,170	971	772	1,020	1,080	795	2,190	2,290	972	821
28	561	709	1,140	971	854	963	957	729	2,300	2,230	985	733
29	698	764	998	960	-----	953	1,060	838	2,290	2,280	875	800
30	648	951	1,010	846	-----	962	998	815	2,300	2,280	938	858
31	630	-----	916	943	-----	911	-----	817	-----	2,280	919	-----
TOTAL	21,562	22,768	32,660	31,161	27,212	30,950	29,188	27,092	45,180	71,000	56,459	21,335
MEAN	696	759	1,054	1,005	972	998	973	874	1,506	2,290	1,821	711
MAX	916	1,040	1,170	1,210	1,080	1,290	1,080	1,070	2,300	2,310	2,280	923
MIN	423	548	592	837	576	439	838	684	1,020	2,230	875	525
AC-FT	42,770	45,160	64,780	61,810	53,980	61,390	57,890	53,740	89,610	140,800	112,000	42,320
CAL YEAR 2001	TOTAL	492,694	MEAN	1,350	MAX	2,300	MIN	423	AC-FT	977,300		
WTR YEAR 2002	TOTAL	416,567	MEAN	1,141	MAX	2,310	MIN	423	AC-FT	826,300		

# PLATTE RIVER BASIN

**JEFFREY RESERVOIR from Platte River, 00403700 - 2002**

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 CONTENTS IN ACRE-FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,439	5,567	5,677	5,127	5,182	5,237	5,622	5,787	5,457	5,732	5,512	5,567
2	3,107	5,402	5,732	5,457	5,292	5,182	5,622	5,677	5,897	5,677	5,512	5,567
3	3,344	5,402	5,732	5,787	5,237	5,237	5,567	5,677	5,677	5,677	5,457	5,347
4	3,439	5,237	5,732	5,897	5,182	5,292	5,567	5,732	5,402	5,622	5,512	5,512
5	3,582	5,457	5,567	5,952	5,237	5,512	5,512	5,622	5,292	5,567	5,512	5,622
6	3,487	5,457	5,402	5,952	5,237	5,897	5,512	5,842	5,347	5,622	5,512	5,732
7	3,344	5,512	5,347	5,897	5,292	5,897	5,457	5,897	5,402	5,622	5,457	5,567
8	3,202	5,512	5,402	5,842	5,567	6,292	5,512	5,787	5,457	5,677	5,457	5,622
9	3,059	5,402	5,347	5,952	5,952	5,567	5,567	5,567	5,457	5,677	5,677	5,622
10	2,967	5,402	5,402	5,952	5,402	5,237	5,402	5,512	5,347	5,732	6,007	5,622
11	3,154	5,237	5,347	5,897	5,292	5,347	5,237	5,622	5,182	5,787	5,897	5,787
12	3,487	5,292	5,402	5,622	5,347	5,457	5,292	5,512	5,512	5,732	5,842	5,622
13	3,582	5,292	5,402	5,292	5,237	5,347	5,402	5,512	5,457	5,622	5,842	5,457
14	3,534	5,347	5,512	5,182	5,182	5,402	5,512	5,457	5,512	5,512	5,787	5,237
15	3,819	5,402	5,567	5,127	5,182	5,347	5,677	5,402	5,677	5,512	5,457	5,127
16	3,487	5,512	5,622	5,182	5,127	5,732	5,732	5,402	5,622	5,512	5,127	4,962
17	3,344	5,512	5,567	5,182	5,017	5,512	5,732	5,457	5,567	5,512	5,567	3,819
18	3,344	5,457	5,567	5,182	5,017	5,622	5,677	5,622	5,512	5,512	5,237	2,922
19	3,344	5,622	5,622	5,072	5,072	5,732	5,787	5,347	5,512	5,567	5,292	3,154
20	3,344	5,622	5,567	5,182	5,127	5,622	5,897	5,512	5,457	5,622	5,622	3,487
21	3,202	5,677	5,512	5,292	5,237	5,567	5,787	5,072	5,512	5,622	5,347	3,249
22	3,439	5,677	5,402	5,237	5,292	5,567	5,787	5,017	5,732	5,677	5,567	3,534
23	3,629	5,622	5,182	5,237	5,292	5,402	5,732	4,812	5,512	5,677	5,402	2,832
24	4,262	6,119	5,292	5,182	5,732	5,457	5,622	4,962	5,237	5,732	5,842	3,202
25	4,162	5,897	5,292	5,237	5,402	5,402	5,512	5,512	5,457	5,622	5,237	3,392
26	4,312	5,897	5,237	5,292	5,237	5,347	5,512	5,567	5,512	5,677	5,622	3,392
27	4,712	5,677	5,402	5,237	5,292	5,512	5,787	5,787	5,622	5,677	5,512	3,629
28	4,912	5,567	5,512	5,182	5,347	5,622	5,952	5,512	5,622	5,622	5,512	3,392
29	5,237	5,787	5,622	5,072	-----	5,622	5,952	5,567	5,567	5,622	5,512	2,292
30	5,512	5,677	5,237	5,182	-----	5,567	5,787	5,567	5,677	5,622	5,512	3,107
31	5,787	-----	5,072	5,347	-----	5,567	-----	5,512	-----	5,567	5,567	-----
MAX	5,787	6,119	5,732	5,952	5,952	6,292	5,952	5,897	5,897	5,787	6,007	5,787
MIN	2,967	5,237	5,072	5,072	5,017	5,182	5,237	4,812	5,182	5,512	5,127	2,292
CHANGE	660	-110	-605	275	0	220	220	-275	165	-110	0	-2,460
CAL YEAR 2001			MEAN	5,453	MAX	6,120	MIN	2,967				
WTR YEAR 2002			MEAN	5,271	MAX	6,292	MIN	2,292				

# PLATTE RIVER BASIN

## JEFFREY POWER RETURN to Platte River, 00143000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	197	130	205	0
2	0	0	0	0	0	0	0	0	197	0	440	0
3	0	0	0	0	0	0	0	0	202	0	428	0
4	0	0	0	0	0	0	0	0	204	0	473	0
5	0	0	0	0	0	0	0	0	273	0	435	0
6	0	0	0	0	0	0	0	0	301	0	274	0
7	0	0	0	0	0	0	0	0	341	0	291	0
8	0	0	0	0	0	0	0	0	351	0	495	0
9	0	0	0	0	0	0	0	0	349	0	460	0
10	0	0	0	0	0	0	0	0	351	0	734	0
11	0	0	0	0	0	0	0	0	351	0	905	0
12	0	0	0	0	0	0	0	0	354	0	935	0
13	0	0	0	0	0	0	0	0	352	0	974	0
14	0	0	0	0	0	0	0	0	340	0	794	0
15	0	0	0	0	0	0	0	0	328	0	309	0
16	0	0	0	0	0	0	0	0	330	0	395	0
17	0	0	0	0	0	0	0	0	358	0	391	0
18	0	0	0	0	0	0	0	0	381	0	390	0
19	0	0	0	0	0	0	0	0	383	0	307	0
20	0	0	0	0	0	0	0	0	382	0	241	0
21	0	0	0	0	0	0	0	55	380	0	272	0
22	0	0	0	0	0	0	0	89	390	0	275	0
23	0	0	0	0	0	0	0	99	463	0	283	0
24	0	0	0	0	0	0	0	99	583	0	287	0
25	0	0	0	0	0	0	0	101	695	0	287	0
26	0	0	0	0	0	0	0	100	854	0	287	0
27	0	0	0	0	0	0	0	99	844	0	286	0
28	0	0	0	0	0	0	0	146	720	0	208	0
29	0	0	0	0	-----	0	0	198	458	0	76	0
30	0	0	0	0	-----	0	0	197	307	0	0	0
31	0	-----	0	0	-----	0	-----	197	-----	77	0	-----
TOTAL	0	0	0	0	0	0	0	1,380	12,019	207	12,137	0
MEAN	0	0	0	0	0	0	0	44.5	401	6.68	392	0
MAX	0	0	0	0	0	0	0	198	854	130	974	0
MIN	0	0	0	0	0	0	0	0	197	0	0	0
AC-FT	0	0	0	0	0	0	0	2,740	23,840	411	24,070	0
CAL YEAR 2001	TOTAL	21,146	MEAN	57.9	MAX	636	MIN	0	AC-FT	41,940		
WTR YEAR 2002	TOTAL	25,743	MEAN	70.5	MAX	974	MIN	0	AC-FT	51,060		

# PLATTE RIVER BASIN

**ELWOOD RESERVOIR from Platte River, 00403300 - 2002**

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 CONTENTS IN ACRE-FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18,377	17,093	16,064	15,007	14,058	13,205	21,512	30,749	37,800	34,696	25,120	17,944
2	18,305	17,022	15,997	15,007	13,997	13,145	21,835	30,950	37,800	34,373	24,856	18,089
3	18,233	17,022	15,930	15,007	13,935	13,145	22,157	31,250	37,800	34,053	24,509	18,233
4	18,233	16,952	15,930	14,942	13,873	13,085	22,651	31,554	37,800	33,628	24,251	18,233
5	18,233	16,952	15,930	14,942	13,873	13,085	23,063	31,861	37,800	33,206	23,906	18,233
6	18,161	16,883	15,863	14,878	13,811	13,026	23,485	32,168	37,800	32,893	23,653	18,161
7	18,089	16,883	15,796	14,878	13,811	13,026	23,822	32,372	38,145	32,581	23,316	18,089
8	18,089	16,815	15,796	14,815	13,749	13,026	24,078	32,789	38,145	32,372	23,063	18,089
9	18,017	16,746	15,729	14,815	13,749	12,968	24,423	32,998	38,145	31,963	22,898	18,017
10	18,017	16,746	15,662	14,751	13,687	12,968	24,944	33,311	37,800	31,657	22,651	17,944
11	17,944	16,677	15,662	14,751	13,687	12,909	25,120	33,628	37,687	31,350	22,321	17,944
12	17,872	16,677	15,662	14,688	13,627	13,326	25,473	33,841	37,687	31,050	22,077	17,872
13	17,872	16,609	15,595	14,688	13,567	13,811	25,829	34,266	37,687	30,749	21,754	17,800
14	17,800	16,609	15,530	14,624	13,567	13,873	26,279	34,587	37,687	30,549	21,512	17,800
15	17,800	16,540	15,530	14,624	13,567	13,873	26,549	35,021	37,800	30,251	21,273	17,728
16	17,800	16,540	15,530	14,560	13,506	13,873	26,641	35,239	37,800	30,055	21,273	17,656
17	17,728	16,471	15,464	14,560	13,506	14,560	27,101	35,130	37,687	29,761	20,565	17,586
18	17,656	16,471	15,399	14,560	13,446	14,751	27,285	35,455	37,574	29,565	19,568	17,586
19	17,656	16,402	15,399	14,497	13,386	15,269	27,469	35,675	37,574	29,273	18,894	17,515
20	17,586	16,334	15,399	14,497	13,386	15,729	27,751	35,896	37,461	28,985	18,233	17,445
21	17,586	16,334	15,334	14,433	13,386	16,471	28,033	36,117	37,348	28,889	17,586	17,374
22	17,515	16,265	15,334	14,433	13,326	16,952	28,505	36,339	37,235	28,315	16,952	17,374
23	17,445	16,334	15,269	14,370	13,326	17,445	28,793	36,560	37,123	28,033	16,609	17,304
24	17,445	16,265	15,269	14,370	13,266	17,944	28,985	36,784	37,010	27,657	16,540	17,163
25	17,374	16,265	15,203	14,306	13,266	18,377	29,081	37,123	36,784	27,377	16,540	17,163
26	17,374	16,265	15,203	14,306	13,205	18,820	29,273	37,348	36,560	27,101	16,677	17,093
27	17,304	16,198	15,138	14,244	13,205	19,266	29,565	37,461	36,117	26,733	16,952	17,093
28	17,234	16,131	15,138	14,244	13,205	19,719	29,663	37,687	35,785	26,459	17,304	17,022
29	17,234	16,064	15,073	14,182	-----	20,102	30,055	37,915	35,455	26,099	17,586	16,952
30	17,163	16,064	15,073	14,182	-----	20,565	30,449	37,915	35,130	25,739	17,728	16,952
31	17,163	-----	15,007	14,120	-----	21,037	-----	37,915	-----	25,385	17,872	-----
MAX	18,377	17,093	16,064	15,007	14,058	21,037	30,449	37,915	38,145	34,696	25,120	18,233
MIN	17,163	16,064	15,007	14,120	13,205	12,909	21,512	30,749	35,130	25,385	16,540	16,952
CHANGE	-217	-1,099	-1,057	-887	-915	7,832	9,412	7,466	-2,785	-9,745	-7,513	-920
CAL YEAR 2001			MEAN	13,304	MAX	25,700	MIN	751				
WTR YEAR 2002			MEAN	21,703	MAX	38,145	MIN	12,909				

## PLATTE RIVER BASIN

## JOHNSON RESERVOIR from Platte River, 00403800 - 2002

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 CONTENTS IN ACRE-FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31,400	29,385	44,185	40,760	41,465	43,435	43,935	43,935	38,645	34,155	41,700	41,935
2	32,015	29,985	43,935	40,760	41,700	43,435	42,685	43,935	38,645	34,375	41,935	41,465
3	32,015	30,990	43,685	40,525	41,465	43,185	41,465	43,435	39,820	34,155	41,935	41,700
4	31,605	31,810	43,435	40,290	41,465	42,685	40,290	43,185	40,290	33,935	41,935	41,465
5	30,990	32,630	43,435	40,290	41,465	43,685	38,880	42,935	41,230	34,595	41,465	41,935
6	30,385	33,715	43,185	40,525	41,230	43,685	37,940	42,685	41,230	35,035	41,700	41,935
7	29,585	34,595	43,185	40,760	40,995	44,435	36,795	43,185	40,760	35,475	42,685	42,685
8	30,185	34,815	43,435	41,230	40,760	45,185	37,015	41,700	40,760	36,135	42,435	42,435
9	30,385	35,915	43,435	41,700	40,055	45,435	34,815	42,435	40,525	37,235	42,435	42,185
10	29,985	36,355	43,435	41,935	40,055	45,685	33,935	41,935	40,290	37,470	42,435	43,185
11	29,985	36,795	43,435	42,435	40,055	44,685	34,815	42,185	40,055	37,705	41,935	43,685
12	29,985	38,175	43,435	43,185	40,055	43,935	34,595	42,435	39,820	37,705	41,230	42,435
13	29,385	38,175	43,435	43,435	40,525	42,935	34,815	42,185	39,585	38,175	40,525	40,995
14	28,985	38,410	43,435	43,435	40,055	42,435	34,815	42,435	39,585	38,410	39,585	39,820
15	29,385	38,880	43,185	43,435	40,290	42,185	34,815	42,935	39,820	38,880	39,350	38,880
16	29,585	39,585	42,935	42,935	40,995	41,230	35,255	41,700	39,820	39,820	39,585	38,175
17	29,785	40,290	42,935	42,935	41,230	40,290	35,915	41,230	39,820	40,055	39,350	38,410
18	30,185	40,995	42,435	42,435	41,935	39,350	35,695	40,525	41,230	40,525	39,115	38,880
19	30,785	41,700	41,935	41,935	42,435	37,940	36,795	40,760	41,935	40,760	38,880	37,940
20	30,585	42,935	41,700	41,465	42,435	36,575	37,470	40,760	42,435	40,525	39,115	36,795
21	30,185	42,935	41,465	40,995	42,435	37,705	38,175	40,525	42,435	39,820	38,175	36,135
22	30,185	42,435	41,465	40,525	42,935	38,645	38,880	40,290	42,935	39,350	38,175	35,475
23	30,185	42,185	40,995	40,525	43,435	39,585	38,880	40,525	42,935	39,115	38,645	34,815
24	30,785	42,685	40,760	40,290	43,685	40,525	39,820	40,525	42,685	38,645	40,525	35,255
25	29,985	43,185	40,290	40,290	43,435	40,525	40,760	40,055	41,935	39,115	43,435	35,035
26	29,585	44,185	40,290	40,290	43,935	40,055	41,230	39,350	40,055	39,585	42,935	35,035
27	29,385	43,685	40,290	39,820	43,435	40,760	42,935	38,880	37,705	39,820	43,685	35,255
28	28,985	43,935	40,525	39,585	43,185	40,760	42,185	38,880	36,135	40,290	42,685	35,695
29	28,025	44,435	40,290	39,820	-----	41,935	43,185	38,880	35,475	40,760	42,185	35,475
30	28,595	44,435	40,290	40,290	-----	42,685	43,435	37,940	35,035	40,995	42,935	36,135
31	28,985	-----	40,525	40,760	-----	43,685	-----	38,880	-----	41,700	41,700	-----
MAX	32,015	44,435	44,185	43,435	43,935	45,685	43,935	43,935	42,935	41,700	43,685	43,685
MIN	28,025	29,385	40,290	39,585	40,055	36,575	33,935	37,940	35,035	33,935	38,175	34,815
CHANGE	-2,835	15,450	-3,910	235	2,425	500	-250	-4,555	-3,845	6,665	0	-5,565
CAL YEAR 2001			MEAN	41,038	MAX	46,200	MIN	28,025				
WTR YEAR 2002			MEAN	39,498	MAX	45,685	MIN	28,025				

# PLATTE RIVER BASIN

**PHELPS COUNTY CANAL from Platte River via Tri-County Canal, 00122000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	198	252	919	960	218
2	0	0	0	0	0	0	0	189	237	907	938	225
3	0	0	0	0	0	0	0	191	251	848	884	105
4	0	0	0	0	0	0	0	212	248	863	839	0
5	0	0	0	0	0	0	0	224	251	858	821	0
6	0	0	0	0	0	0	0	205	252	795	851	0
7	0	0	0	0	0	0	0	175	250	783	913	0
8	0	0	0	0	0	0	0	212	238	866	946	0
9	0	0	0	0	0	0	0	231	225	879	604	0
10	0	0	0	0	0	0	19	250	244	981	496	0
11	0	0	0	0	0	0	92	209	255	985	452	0
12	0	0	0	0	0	0	159	204	254	995	574	0
13	0	0	0	0	0	0	124	223	290	965	634	0
14	0	0	0	0	0	0	119	146	310	943	736	0
15	0	0	0	0	0	0	171	147	288	944	809	0
16	0	0	0	0	0	0	134	186	268	939	887	0
17	0	0	0	0	0	0	207	204	253	932	870	0
18	0	0	0	0	0	0	181	203	262	947	829	0
19	0	0	0	0	0	0	164	214	301	940	820	0
20	0	0	0	0	0	0	130	210	319	967	854	0
21	0	0	0	0	0	0	147	212	329	946	876	0
22	0	0	0	0	0	0	121	213	357	940	696	0
23	0	0	0	0	0	0	167	212	327	934	453	0
24	0	0	0	0	0	0	174	207	405	932	202	0
25	0	0	0	0	0	0	171	211	569	946	150	0
26	0	0	0	0	0	0	169	220	697	953	195	0
27	0	0	0	0	0	0	157	228	827	922	185	0
28	0	0	0	0	0	0	142	201	860	904	201	0
29	0	0	0	0	-----	0	186	196	893	895	215	0
30	0	0	0	0	-----	0	196	197	909	931	234	0
31	0	-----	0	0	-----	0	-----	222	-----	930	241	-----
TOTAL	0	0	0	0	0	0	3,130	6,352	11,421	28,489	19,365	548
MEAN	0	0	0	0	0	0	104	205	381	919	625	18.3
MAX	0	0	0	0	0	0	207	250	909	995	960	225
MIN	0	0	0	0	0	0	0	146	225	783	150	0
AC-FT	0	0	0	0	0	0	6,210	12,600	22,650	56,510	38,410	1,090
CAL YEAR 2001	MAX	1,090	MIN	0	AC-FT	116,600						
WTR YEAR 2002	MAX	995	MIN	0	AC-FT	137,500						

# PLATTE RIVER BASIN

## JOHNSON POWER RETURN to Platte River, 00144000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,720	100	928	790	400	650	393	206	0	256	0	89
2	1,100	100	1,000	790	620	650	1,310	426	0	359	0	71
3	972	100	1,000	790	950	650	931	502	0	350	0	161
4	890	100	1,000	790	950	650	1,140	286	0	383	0	165
5	974	100	1,000	790	950	500	1,050	265	323	326	0	160
6	1,100	100	1,000	790	950	400	904	358	274	266	0	153
7	987	100	1,000	790	950	400	1,110	0	311	202	0	145
8	741	169	1,000	790	950	400	698	3.0	317	81	0	130
9	725	200	1,000	790	950	450	1,170	302	302	0	0	153
10	725	200	1,000	790	800	803	967	186	319	0	0	686
11	725	200	1,000	790	950	1,050	319	249	270	0	0	618
12	725	200	1,000	790	950	1,120	393	235	280	221	0	577
13	725	200	965	790	950	1,100	284	238	271	178	0	990
14	725	200	1,000	860	950	1,130	316	63	272	85	0	1,070
15	509	200	1,000	900	700	1,130	260	631	271	0	0	943
16	529	200	1,000	850	700	1,130	0	315	318	0	0	744
17	458	200	1,000	850	700	1,130	0	294	278	0	0	1,090
18	541	200	1,000	900	650	1,140	0	169	0	0	0	967
19	176	225	1,000	900	650	1,150	0	11	0	226	0	531
20	725	200	1,000	900	650	1,190	0	10	0	441	0	557
21	512	475	1,000	850	650	632	0	57	13	441	0	580
22	476	800	1,000	900	650	139	4.0	10	0	416	0	571
23	554	800	1,000	900	650	0	0	0	0	400	0	601
24	173	400	660	900	650	231	0	0	0	368	0	769
25	725	200	800	900	650	529	0	0	372	201	0	113
26	549	563	775	900	600	862	0	0	282	176	0	0
27	181	919	800	900	650	446	0	0	282	88	0	378
28	616	461	775	900	650	0	0	0	277	86	60	728
29	400	263	800	650	-----	0	0	0	191	22	51	625
30	100	557	790	400	-----	0	0	0	103	0	108	455
31	100	-----	790	400	-----	0	-----	0	-----	0	110	-----
TOTAL	20,158	8,732	29,083	25,030	21,470	19,662	11,249.0	4,816.0	5,326	5,572	329	14,820
MEAN	650	291	938	807	767	634	375	155	178	180	10.6	494
MAX	1,720	919	1,000	900	950	1,190	1,310	631	372	441	110	1,090
MIN	100	100	660	400	400	0	0	0	0	0	0	0
AC-FT	39,980	17,320	57,690	49,650	42,590	39,000	22,310	9,550	10,560	11,050	653	29,400
CAL YEAR 2001	TOTAL	261,543.0	MEAN	717	MAX	1,760	MIN	0	AC-FT	518,800		
WTR YEAR 2002	TOTAL	166,247.0	MEAN	455	MAX	1,720	MIN	0	AC-FT	329,800		



# PLATTE RIVER BASIN

**PLATTE RIVER near Maxwell, 00228500 - 2002**

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.--Approximately 56,200 square miles.

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 4,580 cubic feet per second July 8, gage height 7.58 feet, minimum daily discharge 28 cubic feet per second June 23-24.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	52	64E	66E	48E	66E	66	61	53	1,540	1,650E	50
2	60	51	67	68E	49E	68E	62	55	51	1,820	1,350E	50
3	56	52	63	70E	50E	70E	57	57	53	1,970	1,190	49
4	59	51	63	72E	52E	74E	59	58	60	2,210	1,100	48
5	62	53	65	74E	55	76E	58	56	52	2,320	1,130	50
6	54	53	64	74E	54	78E	59	54	47	2,350	1,300	49
7	57	54	64	74E	56	76E	61	57	47	2,590	1,350	48
8	60	52	62	58E	55	74E	58	57	46	3,690	1,100	47
9	63	51	59	45	59	76E	54	52	40	2,020	888	51
10	61	53	57	44	56E	78E	54	49	39	1,820	651	57
11	54	52	57	46	54E	78E	55	56	37	1,990	499	55
12	60	55	59	46	56E	81	53	53	35	2,080	418	56
13	55	58	57	48	56E	75	51	50	32	2,110	366	56
14	58	58	58	46E	59	68	50	46	31	2,250	286	54
15	62	58	54	42E	59	70	48	45	38	1,960	119	53
16	54	59	55	42E	58	61	48	56	38	1,520	81	50
17	55	60	56	43E	58	64	47	51	35	1,310	64	47
18	56	62	53	44E	62	62	47	50	37	1,380	57	47
19	55	57	53	45E	62	61	46	50	34	1,590	55	49
20	54	55	54	46E	58	62	47	50	34	1,740	57	50
21	53	56	54	47E	60	62E	48	45	36	1,700	56	49
22	55	56	53	50E	60	62E	47	44	29	1,900	56	50
23	53	66	50E	47	63	63	48	44	28	2,080	55	53
24	51	76	50E	43	62	66	47	44	28	2,180	56	51
25	52	76	50E	46	58E	66	43	44	41	2,270	54	48
26	47	82	54E	43	60E	60	43	49	196	2,250	52	38
27	46	60E	56E	42	62E	63	61	48	380	2,580	52	40
28	50	58E	58E	42	64E	64	60	50	690	2,460	57	42
29	51	60E	60E	40E	-----	66	61	48	929	2,180	54	46
30	50	62E	62E	43E	-----	67	58	47	1,130	1,880	52	37
31	52	-----	64E	45E	-----	68	-----	55	-----	1,700E	50	-----
TOTAL	1,713	1,748	1,795	1,581	1,605	2,125	1,596	1,581	4,326	63,440	14,305	1,470
MEAN	55.3	58.3	57.9	51.0	57.3	68.5	53.2	51.0	144	2,046	461	49.0
MAX	63	82	67	74	64	81	66	61	1,130	3,690	1,650	57
MIN	46	51	50	40	48	60	43	44	28	1,310	50	37
AC-FT	3,400	3,470	3,560	3,140	3,180	4,210	3,170	3,140	8,580	125,800	28,370	2,920
CAL YEAR 2001 TOTAL		105,401	MEAN	289	MAX	2,480	MIN	23	AC-FT	209,100		
WTR YEAR 2002 TOTAL		97,285	MEAN	267	MAX	3,690	MIN	28	AC-FT	193,000		

E indicates estimated discharge.

# PLATTE RIVER BASIN

## PLATTE RIVER at Brady, 06766000 - 2002

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 4,700 cubic feet per second July 8, combined channel flow; minimum daily discharge 29 cubic feet per second on estimated September 8, combined channel flow.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	97	128E	112E	121E	124E	135	135	80	1,240	1,340	37
2	87	94	133E	114E	126E	132E	127	134	79	1,550	1,100	39E
3	86	95	135E	118E	132E	138E	122	133	76	1,710	1,090	36E
4	87	96	139E	120E	134E	144E	120	124	88	1,810	1,010	33E
5	95	100	141	121E	137E	153E	121	118	80	1,950	1,040	32E
6	94	98	139	127E	142E	160E	120	117	76	2,090	1,230	32E
7	93	98	136	121E	143E	155E	123	123	67	2,230	1,230	30E
8	92	95	130	124E	133E	146E	122	120	70	3,730	998	29E
9	92	92	128	125E	123E	142E	123	109	60	2,080	853	40E
10	91	97	123	122E	120E	154E	125	105	53	1,670	597	70E
11	88	97	123	122E	126E	168E	130	115	56	1,720	443	58
12	92	101	124	123E	127E	174E	131	110	50	1,880	415	57
13	94	101	115	126E	123E	184	128	106	48	1,990	370	63
14	95	101	121	119E	127E	166	124	101	45	2,070	279	61
15	114	100	125	112E	123	151	122	97	59	1,900	108	59
16	104	102	123	113E	124	145	121	102	71	1,490	73	53
17	102	102	119	114E	124	143	119	102	62	1,320	60	47
18	99	101	121	107E	128	138	118	96	54	1,300	53	47
19	98	97	113	106E	126	135	110	94	50	1,370	51	44
20	100	97	118	111E	123	132	112	91	50	1,460E	46	42
21	99	100	120	114E	121	121E	124	91	49E	1,510E	43	42
22	100	103	113E	118E	121	123E	118	84	48E	1,550E	43	43
23	100	116	98E	112E	124	131	118	78	47E	1,760E	41	43
24	100	139	83E	107E	122	126	108	75	45E	1,890E	39	44
25	96	138	89E	114E	89E	126	101	75	41	2,000E	40	41
26	93	132E	100E	121E	90E	130	102	72	88	2,210E	34	39
27	93	80E	104E	119E	102E	134	135	84	242	2,190E	32	36
28	94	102E	105E	102E	114E	135	155	87	493	2,130E	44	36
29	94	122E	103E	81E	-----	132	157	83	774	1,980E	43	44
30	95	122E	106E	100E	-----	130	146	79	951	1,770	36	37
31	96	-----	109E	112E	-----	134	-----	74	-----	1,440	37	-----
TOTAL	2,952	3,115	3,664	3,557	3,445	4,406	3,717	3,114	4,052	56,990	12,818	1,314
MEAN	95.2	104	118	115	123	142	124	100	135	1,838	413	43.8
MAX	114	139	141	127	143	184	157	135	951	3,730	1,340	70
MIN	86	80	83	81	89	121	101	72	41	1,240	32	29
AC-FT	5,860	6,180	7,270	7,060	6,830	8,740	7,370	6,180	8,040	113,000	25,420	2,610
CAL YEAR 2001	TOTAL	119,066	MEAN	326	MAX	2,230	MIN	78	AC-FT	236,200		
WTR YEAR 2002	TOTAL	103,144	MEAN	283	MAX	3,730	MIN	29	AC-FT	204,600		

E indicates estimated discharge.

# PLATTE RIVER BASIN

**THIRTY MILE CANAL from Platte River, 00141000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	81	251	293	
2								0	81	266	291	
3								0	81	282	286	
4								0	84	292	288	
5								0	86	296	287	
6								0	80	295	287	
7								0	76	294	287	
8								0	76	301	289	
9								0	75	298	283	
10								0	86	293	287	
11								0	96	301	291	
12								0	96	294	292	
13								0	98	292	284	
14								0	98	292	269	
15								41	99	289	86	
16								72	99	292	0	
17							0	74	100	292	0	
18							0	72	101	294	0	
19							0	70	102	282	0	
20							0	67	102	287	0	
21							0	69	102	291	0	
22							0	68	103	293		
23							0	63	117	292		
24							0	58	125	294		
25							0	59	138	293		
26							0	58	151	292		
27							0	59	173	290		
28							0	61	197	290		
29					-----		0	69	202	289		
30					-----		0	76	229	291		
31		-----			-----		-----	83	-----	295		-----
TOTAL							0	1,119	3,334	8,993	4,100	
MEAN							0	36.1	111	290	195	
MAX							0	83	229	301	293	
MIN							0	0	75	251	0	
AC-FT							0	2,220	6,610	17,840	8,130	
CAL YEAR 2001	MAX	278	MIN	0	AC-FT	36,500						
WTR YEAR 2002	MAX	301	MIN	0	AC-FT	34,800						

# PLATTE RIVER BASIN

## GOTHENBURG CANAL from Platte River, 00057000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	106	184	341		355
2							0	104	183	339		354
3							0	103	187	353		343
4							0	105	196	352		338
5							0	104	162	350		338
6							0	103	129	349		339
7							0	104	129	347		339
8							0	103	132	344		342
9							0	100	131	347		345
10							0	98	129	347		334
11							0	99	129	356		323
12							0	98	126	355		323
13							0	99	123	344		321
14							0	102	121	349		321
15							6.2	64	122	346		44
16							93	28	120	354		0
17							73	27	121	361		0
18							73	26	126	360		0
19							74	25	125	361		0
20							73	24	125	358		0
21							74	56	125	352		0
22							73	89	124	356		0
23							0	74	101	126	355	0
24							0	72	110	164	356	0
25							0	73	112	182	352	0
26							0	73	111	195	352	0
27							0	75	114	226	346	0
28							0	74	137	267	345	0
29					-----		0	75	201	288	347	0
30					-----		0	123	196	314	347	
31		-----			-----		0	-----	187	-----	355	-----
TOTAL							0	1,178.2	3,036	4,811	10,876	4,759
MEAN							0	39.3	97.9	160	351	164
MAX							0	123	201	314	361	355
MIN							0	0	24	120	339	0
AC-FT							0	2,340	6,020	9,540	21,570	9,440
CAL YEAR 2001	MAX	359	MIN	0	AC-FT	63,750						
WTR YEAR 2002	MAX	361	MIN	0	AC-FT	48,910						

# PLATTE RIVER BASIN

**BUFFALO CREEK (B-1) RESERVOIR SUPPLY CANAL from Platte River, 00019500 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0											
2	0											
3												
4												
5												
6												
7												
8								16.5				
9								18.3				
10								12.1				
11								17.2				
12								18.9				
13								17.3				
14								24.8				
15								27.4				
16								18.4				
17								1.0				
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29					-----							
30					-----							
31		-----			-----		-----		-----			-----
TOTAL	0							171.9				
MEAN	0							17.2				
MAX	0							27.4				
MIN	0							1.0				
AC-FT	0							341				
CAL YEAR 2001	MAX	31.0	MIN	0	AC-FT	5,598						
WTR YEAR 2002	MAX	27.4	MIN	0	AC-FT	341						

# PLATTE RIVER BASIN

**SIX MILE CANAL from Platte River, 00134000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	.60	30	28	
2							0	0	.51	30	28	
3							0	0	.11	30	28	
4							0	0	.08	30	27	
5							0	0	.85	31	27	
6							0	0	8.5	31	27	
7							0	0	12	32	27	
8							0	0	12	32	28	
9							0	0	11	26	25	
10							0	0	9.7	25	21	
11							0	0	9.1	28	23	
12							0	0	9.8	29	28	
13							0	0	9.9	26	28	
14							0	0	10	25	27	
15							0	.06	10	25	7.3	
16							0	2.2	10	25	0	
17							0	2.7	10	29	0	
18							0	2.5	11	28	0	
19							0	.61	10	26	0	
20							0	.40	10	28	0	
21							0	1.1	11	27	0	
22						0	0	1.9	11	27	0	
23						0	0	1.8	11	28	0	
24						0	0	2.0	12	28	0	
25						0	0	2.2	14	28	0	
26						0	0	1.8	16	28	0	
27						0	0	1.6	21	26	0	
28						0	0	1.4	25	26	0	
29					-----	0	0	1.5	30	26	0	
30					-----	0	0	1.2	30	26	0	
31		-----			-----	0	-----	.80	-----	27	0	-----
TOTAL						0	0	25.77	336.15	863	379.3	
MEAN						0	0	.83	11.2	27.8	12.2	
MAX						0	0	2.7	30	32	28	
MIN						0	0	0	.08	25	0	
AC-FT						0	0	51	667	1,710	752	
CAL YEAR 2001	MAX	29	MIN	0	AC-FT	2,590						
WTR YEAR 2002	MAX	32	MIN	0	AC-FT	3,180						

# PLATTE RIVER BASIN

COZAD CANAL from Platte River, 00033000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	7.5	84	279	299	
2							0	29	82	294	301	
3							0	28	78	300	302	
4							0	22	90	297	300	
5							0	19	91	294	301	
6							0	24	118	295	302	
7							0	21	113	290	303	
8							0	22	113	282	302	
9							0	22	115	284	278	
10							0	20	117	295	283	
11							0	20	114	297	284	
12							0	20	120	297	283	
13							0	20	122	295	282	
14							0	15	125	292	196	
15							0	11	125	291	0	
16							0	7.8	123	290	0	
17							0	7.8	123	291	0	
18							0	7.8	123	292	0	
19							0	7.8	124	292	0	
20							0	7.4	124	291	0	
21							0	9.8	115	292	0	
22							0	11	109	291	0	
23						0	0	22	111	290	0	
24						0	0	28	112	288	0	
25						0	0	42	118	286	0	
26						0	0	40	154	284	0	
27						0	0	37	170	283	0	
28						0	0	52	211	280	0	
29					-----	0	0	111	250	279	0	
30					-----	0	0	114	263	279	0	
31		-----			-----	0	-----	94	-----	285		-----
TOTAL						0	0	899.9	3,837	8,975	4,016	
MEAN						0	0	29.0	128	290	134	
MAX						0	0	114	263	300	303	
MIN						0	0	7.4	78	279	0	
AC-FT						0	0	1,780	7,610	17,800	7,970	
CAL YEAR 2001	MAX	296	MIN	0	AC-FT	34,690						
WTR YEAR 2002	MAX	303	MIN	0	AC-FT	35,160						

# PLATTE RIVER BASIN

## ORCHARD ALFALFA CANAL from Platte River, 00117000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	6.7	53	69	
2							0	0	6.4	58	71	
3							0	0	6.6	65	68	
4							0	0	7.0	68	66	
5							0	0	6.7	69	65	
6							0	0	8.2	68	62	
7							0	0	6.5	69	63	
8							0	0	7.5	71	66	
9							0	0	8.6	72	66	
10							0	0	8.5	70	65	
11							0	0	8.4	71	69	
12							0	0	12	73	68	
13							0	0	13	74	65	
14							0	0	13	71	66	
15							0	0	16	71	66	
16							0	4.6	15	69	63	
17							0	4.4	12	68	56	
18							0	.72	13	69	22	
19							0	.69	16	72	0	
20							0	3.4	18	72	0	
21							0	8.2	19	73	0	
22						0	0	5.3	21	73	0	
23						0	0	9.4	24	73	0	
24						0	0	5.8	26	74	0	
25						0	0	8.6	28	73	0	
26						0	0	4.4	35	71	0	
27						0	0	7.5	40	72	0	
28						0	0	7.7	41	71	0	
29					-----	0	0	6.9	48	69		
30					-----	0	0	4.2	50	68		
31		-----			-----	0	-----	6.8	-----	68		-----
TOTAL						0	0	88.61	541.1	2,158	1,136	
MEAN						0	0	2.86	18.0	69.6	40.6	
MAX						0	0	9.4	50	74	71	
MIN						0	0	0	6.4	53	0	
AC-FT						0	0	176	1,070	4,280	2,250	
CAL YEAR 2001	MAX	73	MIN	0	AC-FT	8,820						
WTR YEAR 2002	MAX	74	MIN	0	AC-FT	7,780						



# PLATTE RIVER BASIN

**DAWSON COUNTY CANAL from Platte River, 00037000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	121	57	476	479	0
2							0	115	53	485	518	0
3							0	114	52	493	529	
4							0	104	68	494	528	
5							0	98	63	496	526	
6							0	96	61	502	487	
7							0	94	89	498	474	
8							0	91	122	499	482	
9							0	87	142	492	463	
10							0	84	143	470	427	
11							0	98	154	495	447	
12							0	96	143	497	492	
13							0	88	124	497	511	
14							0	82	114	419	503	
15							0	79	123	77	432	
16							0	68	152	7.6	415	
17							0	64	134	35	435	
18							0	67	146	206	440	
19							0	75	163	323	444	
20							0	86	166	412	379	
21							0	65	170	482	333	
22						0	44	69	176	502	332	
23						0	120	69	185	514	341	
24						0	121	76	201	521	316	
25						0	118	80	285	519	259	
26						0	122	73	345	521	240	
27						0	122	70	416	522	240	
28						0	117	58	462	522	214	
29					-----	0	120	57	470	522	191	
30					-----	0	122	57	483	522	69	
31		-----			-----	0	-----	66	-----	513	0	-----
TOTAL						0	1,006	2,547	5,462	13,533.6	11,946	0
MEAN						0	33.5	82.2	182	437	385	0
MAX						0	122	121	483	522	529	0
MIN						0	0	57	52	7.6	0	0
AC-FT						0	2,000	5,050	10,830	26,840	23,690	0
CAL YEAR 2001	MAX	518	MIN	0	AC-FT	74,580						
WTR YEAR 2002	MAX	529	MIN	0	AC-FT	68,420						

# PLATTE RIVER BASIN

## PLATTE RIVER near Cozad, 06766500 - 2002

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.

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 1,440 cubic feet per second July 9, combined channel flow; minimum daily discharge 6.2 cubic feet per second estimated June 3, combined channel flow.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178	193	211	156E	215	170E	213	26	6.7	12	36	133
2	179	187	232	186E	236	200E	200	7.1	6.6E	37	32	126
3	171	187	251	214E	246	250E	190	10	6.2E	88	68	117
4	164	186	245	202E	242	300E	191	7.9	7.8E	134	49	108
5	167	187	238	220	238	250E	193	7.8	7.8E	218	20	96
6	172	190	223	226	240	237	193	7.9	7.7E	310E	14	88
7	171	188	221	218	240	233	194	7.2	7.5E	415E	15	84
8	173	182	208	237	244	223	193	8.1	7.6E	532E	15	78
9	175	180	207	263	234	160	191	7.7	7.9E	1,030	144	77
10	167	181	204	256	171	218	193	7.9	8.3E	306	18	98
11	167	182	205	235	198	274	185	9.4	8.7E	140	29	102
12	174	189	216	238	241	317	184	8.5	8.0E	212	42	101
13	187	191	211	242	236	302	168	8.5	7.4E	294	31	106
14	184	193	204	217	233	257	172	8.3	6.8E	444	22	113
15	215	196	215	200	230	235	182	8.2	7.8E	816	27	99
16	208	196	215	200	230	231	180	7.8	9.1E	662	11	99
17	198	192	204	209	229	233	174	8.0	8.6E	401	27	96
18	196	186	211	204	229	234	172	8.8	8.7E	128	32	90
19	192	183	210	202	222	229	160	8.3	8.6E	34	48	88
20	189	184	208	203	219	223	161	8.0	8.5E	31	17	84
21	192	188	214	217	224	204	172	7.8	8.5E	11	34	81
22	196	185	205	231	226	201	92	7.5	8.2E	24	18	79
23	197	200	175	238	234	210	51	6.8	7.7E	78	21	78
24	193	233	167	213	235	201	45	6.7	7.5E	241	68	72
25	189	227	191	211	220E	195	31	7.9	7.5E	312	115	69
26	191	234E	211	233	180E	195	40	8.1	25 E	380	115	69
27	192	135E	217	228	200E	199	73	7.9	47	426	104	71
28	194	125E	210	204	200E	199	95	7.5	91	439	143	71
29	189	156E	157E	176	-----	201	92	7.6	142	401	100	76
30	193	177E	157E	172	-----	198	47	7.5	62	272	145	85
31	197	-----	146E	199	-----	205	-----	7.1	-----	111	151	-----
TOTAL	5,750	5,613	6,389	6,650	6,292	6,984	4,427	263.8	562.7	8,939	1,711	2,734
MEAN	185	187	206	215	225	225	148	8.51	18.8	288	55.2	91.1
MAX	215	234	251	263	246	317	213	26	142	1,030	151	133
MIN	164	125	146	156	171	160	31	6.7	6.2	11	11	69
AC-FT	11,410	11,130	12,670	13,190	12,480	13,850	8,780	523	1,120	17,730	3,390	5,420
CAL YEAR 2001 TOTAL		76,602.0	MEAN	210	MAX	970	MIN	12	AC-FT	151,900		
WTR YEAR 2002 TOTAL		56,315.5	MEAN	154	MAX	1,030	MIN	6.2	AC-FT	111,700		

E indicates estimated discharge.

# PLATTE RIVER BASIN

**KEARNEY CANAL from Platte River, 00073000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	334	277					0	171	31	132	145	266
2	334	276					0	136	31	133	137	257
3	325	276					0	125	30	136	118	250
4	327	276					0	127	30	137	114	254
5	328	277					0	126	30	137	126	271
6	335	277					0	146	39	137	109	258
7	331	276					0	208	76	137	101	248
8	341	276					0	138	87	170	103	241
9	312	281					0	176	89	206	225	237
10	318	279					0	192	90	257	207	246
11	320	278					0	190	47	247	214	288
12	322	278					0	222	29	238	186	303
13	325	278					0	248	32	256	171	315
14	325	278					0	263	31	257	162	323
15	307	279					0	202	27	241	146	318
16	281	280					0	267	24	248	152	310
17	273	278					0	257	22	281	147	326
18	329	277					0	234	63	243	126	322
19	281	262					40	227	101	174	123	295
20	304	176					70	169	144	168	124	293
21	325	48					71	162	162	171	118	295
22	287	0					80	164	155	170	101	294
23	323						96	127	142	169	99	295
24	280						86	116	118	168	151	314
25	302						80	126	129	159	219	282
26	325						100	105	143	149	211	219
27	279						110	95	125	142	227	181
28	297						111	90	126	142	240	264
29	318				-----		112	95	129	142	248	295
30	283				-----		143	93	132	142	255	296
31	278	-----			-----		-----	56	-----	143	261	-----
TOTAL	9,649	5,483					1,099	5,053	2,414	5,632	5,066	8,356
MEAN	311	249					36.6	163	80.5	182	163	279
MAX	341	281					143	267	162	281	261	326
MIN	273	0					0	56	22	132	99	181
AC-FT	19,140	10,880					2,180	10,020	4,790	11,170	10,050	16,570
CAL YEAR 2001	MAX	350	MIN	0	AC-FT	97,780						
WTR YEAR 2002	MAX	341	MIN	0	AC-FT	84,800						

## PLATTE RIVER BASIN

## KEARNEY POWER RETURN to Platte River, 00075000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	315	249						96E	26	85	46	208
2	315	250						96E	22	92	59	209
3	315	250						96	18	100	60	199
4	306	251						95	20	87	52	191
5	308	254						98	17	89	49	211
6	312	251						106	16	89	46	203
7	313	244						173	37	82	32	190
8	336	249						159	61	84	19	189
9	335	257						149	62	89	126	183
10	332	254						156	61	124	126	185
11	306	253						201	48	141	151	227
12	292	253						193	16	136	126	251
13	279	255						224	7.5	155	96	261
14	293	253						229	8.5	157	82	276
15	306	253						201	8.7	148	68	277
16	248	255						250	7.0	123	69	277
17	257	253						247	22	177	70	272
18	291	248						237	15	139	62	283
19	287	238						213	45	92	53	267
20	252	206						168	90	86	46	256
21	293	116						145	110	89	46	251
22	283							153	108	82	38	257
23	276						48	126	94	78	33	252
24	280						76	99	75	78	196	268
25	249						55	114	65	78	237	261
26	291						71	98	97	74	219	191
27	285						88	80	75	71	148	161
28	255						91	65	79	68	203	229
29	282				-----		93	70	76	62	184	255
30	276				-----		94E	64	83	58	195	259
31	256	-----			-----		-----	54	-----	53	194	-----
TOTAL	9,024	5,092					616	4,455	1,469.7	3,066	3,131	6,999
MEAN	291	242					77.0	144	49.0	98.9	101	233
MAX	336	257					94	250	110	177	237	283
MIN	248	116					48	54	7.0	53	19	161
AC-FT	17,900	10,100					1,220	8,840	2,920	6,080	6,210	13,880
CAL YEAR 2001	MAX	336	MIN	0	AC-FT	83,990						
WTR YEAR 2002	MAX	336	MIN	7.0	AC-FT	67,150						

E indicates estimated discharge.

# PLATTE RIVER BASIN

**PLATTE RIVER near Odessa, 06770000 - 2002**

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.

E indicates estimated daily discharge. Estimated daily discharge; January 4-16, March 6-10, December 10-16; due to backwater from ice conditions. Records 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 2,370 cubic feet per second April 10, gage height 4.29 feet; maximum gage height 4.63 feet March 12 due to backwater from ice, minimum daily discharge 6.3 cubic feet per second June 25.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,780	210	1,040	900E	1,000E	880E	549	142	109	218	127	116
2	1,390	188	1,360	920E	1,100E	900E	1,050	229	138	297	42	83
3	959	182	1,440	960E	1,200E	900E	1,580	401	124	379	21	44
4	882	176	1,420	1,100E	1,300E	900E	1,450	540	126	405	19	37
5	812	183	1,380	1,240	1,400E	920E	1,630	365	113	383	17	34
6	792	191	1,330	1,240	1,390	920E	1,600	284	273	351	14	29
7	837	197	1,330	1,170	1,460	940E	1,420	328	303	328	11	21
8	1,090	192	1,300	1,220	1,530	960E	1,650	151	332	340	11	16
9	618	193	1,250	1,230	1,500	1,000E	1,190	100	361	287	72	13
10	593	189	1,240	1,240	1,200E	1,400E	2,200	161	414	509	45	10
11	552	187	1,230	1,200	1,250E	1,800E	960	265	465	238	39	254
12	625	200	1,230	1,190	1,500	2,000E	695	242	497	160	25	331
13	677	212	1,240	1,160	1,480	2,030	752	202	462	233	15	559
14	623	213	1,230	1,160	1,410	1,830	681	269	439	236	14	743
15	741	209	1,300	1,140E	1,380	1,790	666	136	386	220	12	565
16	591	210	1,310	1,120E	1,240	1,780	512	454	446	372	11	692
17	465	201	1,290	1,100E	1,180	1,820	322	331	507	366	7.8	748
18	620	207	1,240	1,120E	1,140	1,840	313	213	427	234	6.8	896
19	440	192	1,180	1,160E	1,100	1,780	269	166	152	198	7.0	480
20	420	292	1,170	1,200E	1,090	1,730	270	82	83	337	6.9	355
21	652	410	1,180	1,240	1,090	1,740	277	72	37	463	7.4	391
22	427	900	1,270	1,230	1,100	794	263	95	19	447	7.4	374
23	605	1,270	1,130	1,230	1,170	657	223	87	12	361	13	402
24	455	1,280	760E	1,230	1,180	685	181	71	8.5	356	90	672
25	377	722	800E	1,310	960E	796	152	67	6.3	364	228	384
26	608	600E	820E	1,290	900E	1,090	123	63	198	367	150	79
27	400	900E	840E	1,260	840E	1,410	177	67	236	385	135	21
28	354	880E	860E	1,200E	860E	792	188	68	274	372	72	172
29	529	400E	900E	1,100E	-----	592	200	74	295	355	91	452
30	322	600E	920E	800E	-----	575	191	72	241	310	130	465
31	228	-----	900E	900E	-----	536	-----	77	-----	206	113	-----
TOTAL	20,464	11,986	35,890	35,560	33,950	37,787	21,734	5,874	7,483.8	10,077	1,560.3	9,438
MEAN	660	400	1,158	1,147	1,213	1,219	724	189	249	325	50.3	315
MAX	1,780	1,280	1,440	1,310	1,530	2,030	2,200	540	507	509	228	896
MIN	228	176	760	800	840	536	123	63	6.3	160	6.8	10
AC-FT	40,590	23,770	71,190	70,530	67,340	74,950	43,110	11,650	14,840	19,990	3,090	18,720

CAL YEAR 2001 TOTAL 375,466.0 MEAN 1,029 MAX 2,990 MIN 64 AC-FT 744,700  
WTR YEAR 2002 TOTAL 231,804.1 MEAN 635 MAX 2,200 MIN 6.3 AC-FT 459,800

E indicates estimated discharge.

# PLATTE RIVER BASIN

## WOOD RIVER near Alda, 06772000 - 2002

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, except estimated records are poor. 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 41 cubic feet per second August 29, gage height 5.67 feet; no flow many days during the year.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.93	0	.12E	0 E	1.4	2.0	3.3	2.9	6.6	8.4
2	0	0	1.4	0	.13E	0	1.3	1.7	2.9	3.7	6.1	4.9
3	0	0	1.4	0	.11E	0	.63	1.6	1.9	4.7	8.4	2.8
4	0	0	.99	0	0	0	.84	1.6	1.8	4.1	8.9	3.5
5	0	0	1.1	0	0	0	.72	1.5	1.7	5.4	11	3.2
6	0	0	.48	0	0	0 E	.75	2.0	2.0	4.1	9.9	2.3
7	0	0	0	0	0 E	.14E	.99	2.1	2.4	4.6	6.5	1.2
8	0	0	.40	0	.11E	.30E	.89	2.3	1.9	5.9	5.6	0
9	0	0	1.1	0	.15E	.50E	.74	2.0	1.8	4.4	6.8	0
10	0	0	.66	0	.14E	.60E	.82	2.0	2.0	5.2	5.3	3.2
11	0	0	.45	0 E	.17E	.56E	.81	4.1	1.6	5.8	7.6	.63
12	0	0	1.5	.15E	.27E	.80E	.77	4.1	1.1	6.2	7.6	0
13	0	0	1.4	.16E	.23E	1.2 E	1.2	7.8	.84	5.8	5.8	1.1
14	0	0	1.2	.13E	.28E	1.5 E	1.4	11	1.3	6.0	6.2	1.2
15	0	0	1.9	.12E	.30E	2.0 E	1.5	9.8	1.6	6.7	3.7	.06
16	0	0	1.8	.14E	.27E	1.8 E	1.5	8.2	1.5	6.9	7.7	0
17	0	0	1.7	.25E	.26E	2.6 E	1.3	5.5	1.5	7.7	9.3	0
18	0	0	1.6	.40E	.29E	2.4 E	1.6	4.5	1.1	6.0	7.0	0
19	0	0	.80E	.35E	.28E	3.1	1.3	3.7	.81	7.5	7.1	0
20	0	0	.74E	.40E	.30E	2.6	1.0	4.1	.97	7.7	6.9	0
21	0	0	.76E	.45E	.29E	3.2	2.0	3.7	1.5	8.0	6.5	0
22	0	0	.90E	.58E	.32E	2.1	2.0	3.5	.63	7.8	5.4	0
23	0	.01	1.0 E	.56E	.35E	2.4	2.1	2.8	.11	7.5	4.1	0
24	0	2.2	.80E	.63E	.30E	2.1	1.9	2.3	.08	7.5	3.3	0
25	0	3.7	.64E	.58E	.25E	1.5	1.1	2.2	0	6.8	4.9	0
26	0	3.4	.68E	.61E	.20E	1.7	1.1	3.2	0	7.4	6.2	0
27	0	1.8	.25E	.50E	.22E	1.3	2.2	4.5	.11	6.3	6.3	0
28	0	1.9	.16E	.25E	.15E	1.2	2.1	5.5	1.6	6.9	4.6	0
29	0	1.0	0 E	.15E	-----	1.5	2.8	7.8	2.2	7.9	20	0
30	0	.76	0	0 E	-----	1.3	2.4	6.7	2.7	5.9	28	0
31	0	-----	0	0 E	-----	1.3	-----	5.1	-----	6.4	14	-----
TOTAL	0	14.77	26.74	6.41	5.49	39.70	41.16	128.9	42.95	189.7	247.3	32.49
MEAN	0	.49	.86	.21	.20	1.28	1.37	4.16	1.43	6.12	7.98	1.08
MAX	0	3.7	1.9	.63	.35	3.2	2.8	11	3.3	8.0	28	8.4
MIN	0	0	0	0	0	0	.63	1.5	0	2.9	3.3	0
AC-FT	0	29	53	13	11	79	82	256	85	376	491	64
CAL YEAR 2001	TOTAL	2,808.52	MEAN	7.69	MAX	196	MIN	0	AC-FT	5,570		
WTR YEAR 2002	TOTAL	775.61	MEAN	2.12	MAX	28	MIN	0	AC-FT	1,540		

E indicates estimated discharge.

**PLATTE RIVER BASIN  
( LOUP RIVER )**

**SARGENT CANAL from Middle Loup River, 00130000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	271	196	55
2									0	267	196	55
3									0	258	190	61
4									0	252	187	108
5									0	254	192	131
6									0	253	200	127
7									0	253	194	93
8									0	251	197	82
9									0	258	191	74
10									0	261	171	64
11									0	266	160	16
12									0	251	104	0
13									0	217	70	0
14									0	207	75	0
15									36	218	90	0
16									59	231	109	0
17									59	245	127	0
18									77	244	134	0
19									78	239	151	0
20									61	222	194	0
21									63	210	208	0
22									74	216	212	0
23									75	220	204	0
24									89	225	126	0
25									129	234	82	0
26									186	224	73	0
27									231	194	56	0
28									261	189	53	0
29					-----				271	193	56	0
30					-----				272	199	56	0
31		-----			-----		-----		-----	205	56	-----
TOTAL									2,021	7,227	4,310	866
MEAN									67.4	233	139	28.9
MAX									272	271	212	131
MIN									0	189	53	0
AC-FT									4,010	14,330	8,550	1,720
CAL YEAR 2001	MAX	266	MIN	0	AC-FT	24,890						
WTR YEAR 2002	MAX	272	MIN	0	AC-FT	28,610						

# PLATTE RIVER BASIN ( LOUP RIVER )

**MIDDLE LOUP CANAL NO. 1 from Middle Loup River, 00090000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	15	39	38	20
2								0	15	39	38	20
3								0	15	40	37	20
4								0	16	40	37	21
5								0	15	39	36	23
6								0	15	40	36	23
7								0	15	40	35	22
8								12	16	40	33	23
9								22	15	40	37	22
10								23	15	42	38	19
11								23	14	42	39	18
12								23	14	41	27	17
13								22	14	41	30	17
14								22	14	40	28	16
15								22	14	39	27	15
16								21	14	38	27	9.1
17								21	14	38	29	0
18								21	13	38	29	0
19								20	15	38	32	0
20								17	17	38	33	0
21								15	19	38	33	0
22								14	21	38	34	0
23								14	23	38	36	0
24								15	28	37	38	0
25								15	25	38	39	0
26								15	32	38	37	0
27								15	35	38	40	0
28								15	38	39	40	0
29					-----			15	38	39	26	0
30					-----			14	38	39	21	0
31		-----			-----		-----	14	-----	38	21	-----
TOTAL								430	592	1,212	1,031	305.1
MEAN								13.9	19.7	39.1	33.3	10.2
MAX								23	38	42	40	23
MIN								0	13	37	21	0
AC-FT								853	1,170	2,400	2,040	605
CAL YEAR 2001	MAX	41	MIN	0	AC-FT	5,960						
WTR YEAR 2002	MAX	42	MIN	0	AC-FT	7,080						



# PLATTE RIVER BASIN ( LOUP RIVER )

MIDDLE LOUP CANAL NO. 1 PUMP from Middle Loup River, 00090200 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	9.0	9.0	
2									0	9.0	9.0	
3									0	9.0	9.0	
4									0	9.0	9.0	
5									0	9.0	9.0	
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	9.0	
11									0	9.0	3.8	
12									0	9.0	0	
13									0	9.0	0	
14									0	9.0	0	
15									0	9.0	0	
16									0	9.0	0	
17									0	9.0	0	
18									0	9.0	0	
19									0	9.0	5.2	
20									0	9.0	5.2	
21									0	9.0	9.0	
22									0	9.0	9.0	
23									0	9.0	9.0	
24									0	9.0	3.0	
25									0	9.0	0	
26									0	9.0	0	
27									6.8	9.0	0	
28									9.0	9.0	0	
29					-----				9.0	9.0	0	
30					-----				9.0	9.0	0	
31		-----			-----		-----		-----	9.0	0	-----
TOTAL									33.8	279.0	134.2	
MEAN									1.13	9.00	4.33	
MAX									9.0	9.0	9.0	
MIN									0	9.0	0	
AC-FT									67	553	266	
CAL YEAR 2001	MAX	9.0	MIN	0	AC-FT	301						
WTR YEAR 2002	MAX	9.0	MIN	0	AC-FT	887						

# PLATTE RIVER BASIN ( LOUP RIVER )

**MIDDLE LOUP CANAL NO. 2 from Middle Loup River, 00091000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	25	26	50	58	18
2							0	27	26	54	59	19
3							0	24	25	55	59	20
4							0	23	25	56	60	21
5							0	22	25	55	58	24
6							0	21	24	55	53	24
7							0	21	25	57	50	24
8							0	22	27	56	50	24
9							0	21	23	55	51	24
10							0	22	18	56	52	25
11							0	22	18	56	51	24
12							0	22	18	57	27	22
13							0	22	17	58	22	21
14							0	22	17	58	16	19
15							0	22	17	56	14	14
16							0	22	17	53	21	5.9
17							0	22	16	53	29	0
18							0	22	16	55	29	0
19							0	22	17	56	30	0
20							0	24	17	56	31	0
21							0	28	17	57	33	0
22							21	28	17	58	42	0
23							33	29	18	58	42	0
24							33	29	19	58	36	0
25							33	29	22	57	34	0
26							33	28	29	59	29	0
27							32	27	32	57	18	0
28							31	28	36	57	18	0
29					-----		29	28	43	56	16	0
30					-----		28	28	45	55	16	0
31		-----			-----		-----	27	-----	55	17	-----
TOTAL							273	759	692	1,734	1,121	328.9
MEAN							9.10	24.5	23.1	55.9	36.2	11.0
MAX							33	29	45	59	60	25
MIN							0	21	16	50	14	0
AC-FT							541	1,510	1,370	3,440	2,220	652
CAL YEAR 2001	MAX	59	Min	0	AC-FT	7,180						
WTR YEAR 2002	MAX	60	MIN	0	AC-FT	9,730						

# PLATTE RIVER BASIN ( LOUP RIVER )

**MIDDLE LOUP CANAL NO. 3 from Middle Loup River, 00092000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	55	40	130	127	63
2							0	38	40	133	126	64
3							0	37	40	138	128	66
4							0	37	40	132	123	66
5							0	38	39	121	128	65
6							0	38	39	127	128	64
7							0	38	39	130	128	64
8							0	38	32	125	132	65
9							0	39	25	133	138	65
10							0	40	26	125	140	66
11							0	40	27	124	150	66
12							0	40	28	127	139	66
13							0	41	43	121	112	57
14							0	42	53	116	115	49
15							0	42	54	121	103	49
16							0	42	56	132	110	24
17							0	42	57	131	121	0
18							0	42	56	128	118	0
19							0	43	55	134	113	0
20							0	42	57	135	111	0
21							0	41	58	134	111	0
22							0	40	58	133	111	0
23							0	38	58	133	111	0
24							0	38	78	135	82	0
25							0	38	118	126	59	0
26							0	38	135	129	60	0
27							0	38	138	133	60	0
28							0	39	134	127	61	0
29					-----		0	40	138	122	62	0
30					-----		28	40	139	132	62	0
31		-----			-----		-----	41	-----	133	63	-----
TOTAL							28	1,245	1,900	4,000	3,332	959
MEAN							.93	40.2	63.3	129	107	32.0
MAX							28	55	139	138	150	66
MIN							0	37	25	116	59	0
AC-FT							56	2,470	3,770	7,930	6,610	1,900
CAL YEAR 2001	MAX	162	MIN	0	AF-FT	21,640						
WTR YEAR 2002	MAX	150	MIN	0	AC-FT	22,740						

# PLATTE RIVER BASIN ( LOUP RIVER )

**MIDDLE LOUP CANAL NO. 4 from Middle Loup River, 00093000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	26	32	130	120	44
2							0	27	32	135	123	44
3							0	27	33	138	122	45
4							0	29	33	137	123	44
5							0	30	33	134	112	43
6							0	32	33	136	114	42
7							0	33	26	137	113	43
8							0	35	19	136	112	43
9							0	35	18	135	112	43
10							0	34	18	130	109	44
11							0	35	19	137	108	43
12							0	32	27	138	90	39
13							0	34	33	139	81	40
14							0	34	34	133	81	35
15							0	35	36	130	81	35
16							0	32	36	130	89	15
17							0	30	36	134	101	0
18							0	30	36	130	102	0
19							0	40	37	131	100	0
20							0	50	43	132	98	0
21							0	51	49	132	95	0
22							9.0	51	50	132	100	0
23							30	50	56	132	103	0
24							26	43	69	137	70	0
25							16	36	88	130	46	0
26							18	35	95	120	45	0
27							21	35	106	117	46	0
28							22	33	119	123	46	0
29					-----		24	32	120	119	45	0
30					-----		29	31	119	126	45	0
31		-----			-----		-----	32	-----	120	45	-----
TOTAL							195.0	1,089	1,485	4,070	2,777	642
MEAN							6.50	35.1	49.5	131	89.6	21.4
MAX							30	51	120	139	123	45
MIN							0	26	18	117	45	0
AC-FT							387	2,160	2,950	8,070	5,510	1,270
CAL YEAR 2001	MAX	129	MIN	0	AC-FT	19,590						
WTR YEAR 2002	MAX	139	MIN	0	AC-FT	20,350						

# PLATTE RIVER BASIN ( LOUP RIVER )

**FARWELL (SHERMAN FEEDER) CANAL from Middle Loup River, 00047000 - 2002**

LOCATION.--NEL/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 271 A.F. delivered to Middle Loup Canal No. 4

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	403	0	0	0	0	0	0	296	356	91	170	437
2	401	0	0	0	0	0	0	316	364	86	163	441
3	397	0	0	0	0	0	0	304	369	90	185	432
4	400	0	0	0	0	0	0	314	351	114	231	421
5	401	0	0	0	0	0	0	311	339	112	291	422
6	400	0	0	0	0	0	0	316	340	113	271	417
7	397	0	0	0	0	0	0	318	360	117	265	432
8	392	0	0	0	0	0	0	322	354	145	235	429
9	392	0	0	0	0	0	0	306	346	190	269	431
10	148	0	0	0	0	0	0	291	348	149	310	440
11	0	0	0	0	0	0	0	299	363	143	309	387
12	0	0	0	0	0	0	0	235	370	149	418	324
13	0	0	0	0	0	0	0	299	369	186	530	411
14	0	0	0	0	0	0	0	305	376	199	519	419
15	0	0	0	0	0	0	72	320	416	195	501	417
16	0	0	0	0	0	0	156	326	415	156	443	408
17	0	0	0	0	0	0	228	329	407	155	432	414
18	0	0	0	0	0	0	290	319	395	120	427	418
19	0	0	0	0	0	0	340	326	404	147	406	415
20	0	0	0	0	0	0	341	334	359	145	370	401
21	0	0	0	0	0	0	342	356	323	151	323	392
22	0	0	0	0	0	0	315	358	315	181	303	412
23	0	0	0	0	0	0	308	347	317	150	319	403
24	0	0	0	0	0	0	314	350	376	146	390	399
25	0	0	0	0	0	0	315	362	379	158	413	413
26	0	0	0	0	0	0	315	360	354	177	423	431
27	0	0	0	0	0	0	316	372	307	205	440	425
28	0	0	0	0	0	0	300	354	209	257	436	398
29	0	0	0	0	-----	0	304	346	172	234	416	412
30	0	0	0	0	-----	0	284	355	125	232	424	430
31	0	-----	0	0	-----	0	-----	354	-----	196	436	-----
TOTAL	3,731	0	0	0	0	0	4,540	10,100	10,278	4,889	11,068	12,431
MEAN	120	0	0	0	0	0	151	326	343	158	357	414
MAX	403	0	0	0	0	0	342	372	416	257	530	441
MIN	0	0	0	0	0	0	0	235	125	86	163	324
AC-FT	7,400	0	0	0	0	0	9,010	20,030	20,390	9,700	21,950	24,660
CAL YEAR 2001	MAX	426	MIN	0	AC-FT	104,100						
WTR YEAR 2002	MAX	530	MIN	0	AC-FT	113,100						

# PLATTE RIVER BASIN ( LOUP RIVER )

MIDDLE LOUP CANAL NO. 4 from Sherman Feeder Canal, 00093200 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	0	19		
2							0	0	0	19		
3							0	0	0	1.0		
4							0	0	0	0		
5							0	0	0	0		
6							0	0	0	0		
7							0	0	0	0		
8							0	0	0	0		
9							0	0	0	0		
10							0	0	0	0		
11							0	0	0	0		
12							0	0	0	0		
13							0	0	0	0		
14							0	0	0	0		
15							0	0	0	0		
16							0	0	0	0		
17							0	0	0	0		
18							0	0	0	0		
19							0	0	0	0		
20							0	0	0	0		
21							0	0	0	0		
22							1.4	0	0	0		
23							23	0	8.1	0		
24							0	0	12	0		
25							0	0	12	0		
26							0	0	2.9	0		
27							0	0	0	0		
28							0	0	0	0		
29					-----		0	0	19	0		
30					-----		0	0	19	0		
31		-----			-----		-----	0	-----	0		-----
TOTAL							24.4	0	73.0	39.0		
MEAN							.81	0	2.43	1.26		
MAX							23	0	19	19		
MIN							0	0	0	0		
AC-FT							48	0	145	77		
CAL YEAR 2001	MAX	6.7	MIN	0	AC-FT	92						
WTR YEAR 2002	MAX	23	MIN	0	AC-FT	271						

# PLATTE RIVER BASIN ( LOUP RIVER )

**SHERMAN RESERVOIR from the Middle Loup River, 06784200 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49,880	54,670	53,550	52,240	51,060	51,110	49,190	55,670	68,790	64,580	31,030	25,450
2	50,350	54,670	53,550	52,240	51,060	51,110	49,190	56,170	68,790	62,940	29,850	26,060
3	51,060	54,670	53,550	52,000	51,060	51,110	48,960	56,420	69,070	61,610	28,710	26,370
4	51,530	54,430	53,550	52,000	51,060	51,110	48,960	56,930	69,370	60,280	27,760	26,520
5	52,240	54,430	53,550	52,000	51,060	51,110	48,960	57,180	69,650	59,240	27,290	26,670
6	52,970	54,430	53,210	52,000	50,820	49,880	48,730	57,690	69,370	58,200	26,520	26,820
7	53,560	54,430	53,210	52,000	50,820	49,880	48,730	58,200	69,360	57,180	25,910	27,600
8	53,940	54,180	53,210	52,000	50,820	49,880	48,730	58,720	69,360	56,420	25,310	28,390
9	54,670	54,180	53,210	52,000	50,820	49,880	48,730	59,240	69,360	55,420	24,720	29,200
10	55,170	53,940	53,210	52,000	50,820	49,880	48,730	59,500	69,360	54,670	24,290	30,350
11	55,670	53,940	53,210	51,770	50,820	49,880	48,730	60,280	69,360	53,550	23,990	31,030
12	56,170	53,940	53,210	51,770	50,820	49,880	48,730	60,810	69,360	52,240	23,990	31,870
13	56,170	53,940	53,210	51,770	50,580	49,650	48,730	61,080	69,360	51,290	23,990	32,400
14	56,170	53,940	52,970	51,770	50,580	49,650	48,730	61,610	69,360	50,110	24,430	33,280
15	55,920	53,940	52,970	51,770	50,580	49,650	48,500	61,870	69,070	48,960	25,020	34,000
16	55,920	53,940	52,970	51,770	50,580	49,650	48,500	62,400	69,070	47,810	25,310	34,730
17	55,670	53,940	52,970	51,350	50,580	49,650	48,500	62,940	69,360	46,700	25,760	35,460
18	55,670	53,700	52,970	51,350	50,580	49,650	48,960	63,220	69,360	45,370	25,610	36,210
19	55,670	53,700	52,720	51,350	50,350	49,650	49,420	63,490	69,360	44,070	25,760	37,160
20	55,670	53,700	52,720	51,350	50,350	49,650	49,980	64,040	69,360	43,000	25,760	37,740
21	55,420	53,700	52,720	51,350	50,350	49,650	50,580	64,580	69,360	41,750	25,610	38,520
22	55,420	53,550	52,720	51,350	50,350	49,420	51,290	64,870	69,360	40,720	25,160	39,310
23	55,420	53,550	52,720	51,290	50,350	49,420	51,770	65,400	69,070	39,710	24,580	39,910
24	55,160	53,700	52,480	51,290	50,350	49,420	52,240	65,970	69,070	38,720	23,990	40,720
25	55,160	53,940	52,480	51,290	50,350	49,420	52,700	66,530	69,070	37,740	23,720	41,330
26	54,920	53,850	52,480	51,290	50,110	49,420	53,210	67,090	69,790	36,780	23,290	42,170
27	54,920	53,750	52,480	51,290	50,110	49,420	53,700	67,650	68,500	35,840	23,150	43,000
28	54,920	53,700	52,480	51,290	50,110	49,190	54,180	68,210	67,930	34,910	23,990	43,640
29	54,670	53,550	52,240	51,060	-----	49,190	54,670	68,500	67,090	34,000	24,290	44,290
30	54,670	53,550	52,240	51,060	-----	49,490	55,170	68,500	65,680	33,110	24,580	44,940
31	54,670	-----	52,240	51,060	-----	49,190	-----	68,790	-----	32,050	25,020	-----
MAX	56,170	54,670	53,550	52,240	51,060	51,110	55,170	68,790	69,790	64,580	31,030	44,940
MIN	49,880	53,550	52,240	51,060	50,110	49,190	48,500	55,670	65,680	32,050	23,150	25,450
CHANGE	5,480	-1,120	-1,310	-1,180	-950	-920	5,980	13,620	-3,110	-33,630	-7,030	19,920
CAL YEAR 2001			MEAN	53,137	MAX	70,200	MIN	33,100				
WTR YEAR 2002			MEAN	50,209	MAX	69,790	MIN	23,150				

**PLATTE RIVER BASIN  
( LOUP RIVER )**

**FARWELL "MAIN" CANAL from Sherman Reservoir, 00048000 - 2002**

LOCATION.--NWL/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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	98	474	412	115
2								0	98	469	393	142
3								0	98	452	369	188
4								0	110	418	363	213
5								0	133	381	368	204
6								0	138	353	341	50
7								0	138	346	321	0
8								0	144	354	321	0
9								0	147	376	330	0
10								0	165	409	277	0
11								0	180	452	259	0
12								0	182	458	236	0
13								0	180	458	181	0
14								0	176	458	130	0
15								0	172	458	144	0
16								0	170	464	200	0
17								0	170	458	218	0
18								0	170	442	224	0
19								0	168	426	245	0
20								0	162	401	270	0
21								0	156	395	299	0
22								0	162	395	342	0
23								0	165	386	378	0
24								0	178	388	378	0
25								0	209	402	373	0
26								0	262	407	344	0
27								0	344	388	272	0
28								61	422	382	192	0
29					-----			98	462	386	152	0
30					-----			98	474	409	134	0
31		-----			-----		-----	98	-----	422	116	-----
TOTAL								355	5,833	12,867	8,582	912
MEAN								11.5	194	415	277	30.4
MAX								98	474	474	412	213
MIN								0	98	346	116	0
AC-FT								704	11,570	25,520	17,020	1,810
CAL YEAR 2001	MAX	474	MIN	0	AC-FT	55,070						
WTR YEAR 2002	MAX	474	MIN	0	AC-FT	56,630						



**PLATTE RIVER BASIN  
( LOUP RIVER )**

**FARWELL "SOUTH" CANAL from Sherman Reservoir, 00049000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	61	294	250	44
2								0	61	302	250	50
3								0	61	294	225	62
4								0	61	270	220	79
5								0	79	255	220	80
6								0	85	237	197	20
7								0	81	235	178	0
8								0	80	235	167	0
9								0	80	243	169	0
10								0	88	253	143	0
11								0	92	263	133	0
12								0	100	273	131	0
13								0	104	272	99	0
14								0	101	268	79	0
15								0	100	275	85	0
16								0	100	279	110	0
17								0	93	275	121	0
18								0	91	268	123	0
19								0	91	257	125	0
20								0	91	249	141	0
21								0	91	249	180	0
22								0	91	249	196	0
23								0	91	204	203	0
24								0	91	186	211	0
25								0	100	186	211	0
26								0	126	199	203	0
27								0	170	206	159	0
28								38	222	206	103	0
29					-----			60	271	212	74	0
30					-----			61	286	238	60	0
31		-----			-----		-----	61	-----	250	49	-----
TOTAL								220	3,239	7,682	4,815	335
MEAN								7.10	108	248	155	11.2
MAX								61	286	302	250	80
MIN								0	61	186	49	0
AC-FT								436	6,420	15,240	9,550	664
CAL YEAR 2001	MAX	256	MIN	0	AC-FT	30,600						
WTR YEAR 2002	MAX	302	MIN	0	AC-FT	32,310						

# PLATTE RIVER BASIN ( LOUP RIVER )

## MUD CREEK near Sweetwater, 06783500 - 2002

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.

EXTREMES FOR CURRENT YEAR.--Peak discharge 136 cubic feet per second May 11, gage height 7.77 feet; minimum daily discharge is zero August 4, 7, 8, 16, and 20.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	19E	14E	17E	13E	23	30	23	5.8	.28	4.9
2	12	17	20E	15E	15E	12E	24	28	19	4.0	.14	5.6
3	12	16	19E	17E	16E	13E	24	25	18	3.8	.24	4.1
4	12	16	18E	18E	16E	14E	23	25	18	4.0	0	2.4
5	12	16	19E	19E	17E	17E	23	24	18	4.0	.63	1.1
6	12	17	18E	19E	17E	17E	23	25	18	3.5	.24	.84
7	12	17	18E	18E	16E	18E	24	24	19	2.5	0	1.1
8	13	17	17E	19E	17E	17E	24	24	21	3.1	0	1.5
9	14	16	18E	20E	18E	16E	23	22	17	2.9	.16	1.4
10	15	16	18E	19E	17E	18E	23	21	16	2.0	.21	2.3
11	14	16	18E	18E	16E	20E	22	57	16	.99	.31	3.4
12	13	16	17E	19E	17E	19E	22	40	17	2.2	.12	2.5
13	14	16	17E	19E	17E	20E	22	30	29	2.0	.93	2.5
14	15	17	16E	18E	18E	22E	21	25	20	1.6	1.2	3.2
15	15	17	16E	17E	18E	23E	21	22	17	1.7	.19	3.8
16	15	17	17E	18E	19E	23E	22	21	16	1.6	0	4.4
17	16	17	16E	18E	18E	25	21	20	16	1.4	.46	4.5
18	16	17	17E	18E	17E	25	21	19	16	.75	.52	4.1
19	15	18	16E	17E	17E	24	22	19	17	.43	.14	4.2
20	15	17	17E	17E	18E	24	22	19	24	1.3	0	4.9
21	14	17	17E	18E	17E	23	23	19	18	.56	.11	5.2
22	15	16	18E	18E	16E	21E	23	19	16	1.2	.09	5.1
23	14	18	17E	17E	15E	20E	23	18	15	1.9	.94	5.3
24	16	23	18E	17E	14E	21E	22	18	15	.39	1.2	5.6
25	16	24	19E	18E	14E	20E	25	19	15	.27	2.8	6.7
26	15	24	19E	17E	13E	19E	25	18	14	.31	9.7	6.8
27	14	20E	19E	16E	14E	20E	26	41	12	1.1	21	6.6
28	15	17E	18E	17E	14E	23	28	23	11	1.6	22	7.1
29	16	18E	17E	17E	-----	23	29	60	10	1.2	11	6.9
30	17	18E	15E	16E	-----	23	27	40	8.8	.57	6.3	7.1
31	17	-----	14E	16E	-----	24	-----	26	-----	.39	4.9	-----
TOTAL	443	528	542	544	458	617	701	821	509.8	59.06	85.81	125.14
MEAN	14.3	17.6	17.5	17.5	16.4	19.9	23.4	26.5	17.0	1.91	2.77	4.17
MAX	17	24	20	20	19	25	29	60	29	5.8	22	7.1
MIN	12	16	14	14	13	12	21	18	8.8	.27	0	.84
AC-FT	879	1,050	1,080	1,080	908	1,220	1,390	1,630	1,010	117	170	248
CAL YEAR 2001	TOTAL	11,649.40	MEAN	31.9	MAX	389	MIN	6.3	AC-FT	23,110		
WTR YEAR 2002	TOTAL	5,433.81	MEAN	14.9	MAX	60	MIN	0	AC-FT	10,780		

E indicates estimated discharge.

# PLATTE RIVER BASIN ( LOUP RIVER )

## TURKEY CREEK near Dannebrog, 06784800 - 2002

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 68 cubic feet per second May 12, gage height 5.70 feet, minimum daily discharge 3.0 cubic feet per second September 18, 19, & 21.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	9.2	9.5	8.8E	6.6E	7.4E	8.8	9.8	7.4	18	16	9.2
2	4.9	8.1	9.6	10	7.4E	6.2E	9.1	10	7.4	20	18	9.5
3	5.3	7.3	10	12	7.2E	8.0E	8.6	9.5	7.5	23	17	10
4	5.3	5.9	10	9.8	7.4E	6.8E	7.8	9.1	7.7	22	15	7.1
5	5.6	8.2	11	8.2	7.6E	8.8E	8.1	9.0	7.5	23	30	8.0
6	5.2	8.6	10	8.4	7.9	10 E	8.6	8.6	7.0	21	21	7.9
7	5.3	8.8	12	7.0E	8.1	11	8.9	8.6	7.6	17	12	7.0
8	5.4	8.7	9.5	8.4	8.5	10 E	8.9	8.8	6.6	18	13	11
9	5.4	7.9	9.2	9.0	9.3	8.2E	8.6	8.6	6.7	9.8	16	8.7
10	6.0	7.6	9.3	9.1	7.8E	10	8.3	8.1	6.5	12	12	7.2
11	6.1	7.9	9.3	8.5	9.8	10	8.3	14	7.3	15	9.5	5.8
12	5.4	8.0	9.5	8.4	9.6	12	8.4	39	38	18	28	4.7
13	6.0	7.9	9.1	8.7	9.0E	15	8.3	12	9.9	22	25	4.6
14	5.6	7.5	8.8	9.3	9.3	13	8.3	10	6.6	21	17	4.6
15	5.5	7.3	9.1	7.0E	8.9	11	8.4	9.6	6.2	21	9.6	3.8
16	5.2	7.1	8.9	6.6E	8.9	9.8	7.6	9.2	8.7	21	9.5	3.3
17	5.3	7.4	8.8	6.0E	9.0	9.8	6.8	8.8	9.1	23	11	3.1
18	5.6	7.6	8.8	6.2E	9.4	10	6.5	8.8	11	21	22	3.0
19	5.8	7.6	8.2E	7.4E	9.9	11	7.2	8.4	8.7	16	12	3.0
20	5.7	7.7	7.4E	7.6	9.4	10	7.4	8.3	14	14	11	3.4
21	5.5	7.9	8.2E	7.6	8.9	9.2E	9.3	8.1	14	14	9.7	3.0
22	5.3	8.2	8.7	8.0	8.7	9.2E	9.1	8.1	12	21	11	3.2
23	5.3	9.9	7.8E	8.0	8.6	9.5	8.4	7.8	9.9	29	13	3.1
24	7.1	18	7.4E	7.6E	9.7	9.6	8.2	7.6	11	19	24	3.2
25	7.2	19	7.6E	7.6E	9.0E	9.0	8.3	8.0	11	16	29	3.2
26	7.4	13	8.0E	8.3	7.6E	8.0E	7.7	7.9	9.6	16	24	3.4
27	7.8	11	8.0	8.4	7.8E	8.8	12	9.1	12	16	35	3.7
28	8.6	9.6	8.5	8.0E	8.0E	9.5	15	24	14	16	37	3.2
29	9.8	9.5	7.0E	6.8E	-----	8.8	11	25	16	17	19	3.3
30	9.7	9.6	7.4E	7.4E	-----	8.9	9.6	9.9	15	15	14	3.2
31	12	-----	7.0E	6.0E	-----	8.9	-----	8.1	-----	16	10	-----
TOTAL	195.5	272.0	273.6	250.1	239.3	297.4	261.5	341.8	315.9	570.8	550.3	157.4
MEAN	6.31	9.07	8.83	8.07	8.55	9.59	8.72	11.0	10.5	18.4	17.8	5.25
MAX	12	19	12	12	9.9	15	15	39	38	29	37	11
MIN	4.9	5.9	7.0	6.0	6.6	6.2	6.5	7.6	6.2	9.8	9.5	3.0
AC-FT	388	540	543	496	475	590	519	678	627	1,130	1,090	312
CAL YEAR 2001	TOTAL	6,247.10	MEAN	17.1	MAX	253	MIN	4.9	AC-FT	12,390		
WTR YEAR 2002	TOTAL	3,725.60	MEAN	10.2	MAX	39	MIN	3.0	AC-FT	7,390		

E indicated estimated discharge.

# PLATTE RIVER BASIN ( LOUP RIVER )

**TAYLOR-ORD CANAL from North Loup River, 00107000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	100	64	213	219	156
2							0	42	65	217	222	152
3							0	47	63	220	221	142
4							0	55	65	219	217	135
5							0	60	63	222	214	138
6							0	63	65	221	211	138
7							0	59	66	224	210	137
8							0	59	65	223	209	138
9							0	61	64	222	211	129
10							0	62	65	220	206	126
11							0	63	64	222	202	132
12							0	61	64	222	192	121
13							0	62	65	222	171	121
14							0	63	64	222	153	120
15							0	65	66	219	153	120
16							0	68	64	221	157	76
17							0	64	65	219	160	.45
18							0	65	63	218	162	0
19							0	65	62	218	171	0
20							0	63	62	219	200	0
21							0	66	62	218	204	0
22							0	63	64	219	203	0
23							0	63	63	218	204	0
24							0	65	68	219	203	0
25							0	64	95	218	204	0
26							0	64	120	212	206	0
27							0	63	149	208	190	0
28							0	65	173	206	176	0
29					-----		0	63	193	205	169	0
30					-----		54	66	207	212	163	0
31		-----			-----		-----	63	-----	217	155	-----
TOTAL							54	1,952	2,478	6,755	5,938	2,081.45
MEAN							1.80	63.0	82.6	218	192	69.4
MAX							54	100	207	224	222	156
MIN							0	42	62	205	153	0
AC-FT							107	3,870	4,920	13,400	11,780	4,130
CAL YEAR 2001	MAX	216	MIN	0	AC-FT	30,390						
WTR YEAR 2002	MAX	224	MIN	0	AC-FT	38,200						

**PLATTE RIVER BASIN  
( LOUP RIVER )**

**TAYLOR-ORD CANAL inlet to Mirdan Canal, 00107100 - 2002**

LOCATION.--NWL/4NWL/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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								48	33	125	130	109
2								59	38	134	129	108
3								39	43	134	127	101
4								42	45	135	134	85
5								46	43	132	137	86
6								42	46	136	139	85
7								41	49	138	134	88
8								39	52	139	121	93
9								40	47	135	121	88
10								40	47	130	129	79
11								41	49	130	133	84
12								42	50	132	137	80
13								40	52	134	131	85
14								35	52	128	108	86
15								28	53	130	106	84
16								36	53	128	105	76
17								34	54	128	99	13
18								33	53	130	92	0
19								34	49	126	96	0
20								31	48	127	117	0
21								29	48	127	120	0
22								27	49	126	115	0
23								27	50	128	116	0
24								27	48	129	124	0
25								31	62	138	123	0
26								29	74	144	130	0
27								29	87	143	128	0
28								30	107	144	116	0
29					-----			30	113	136	104	0
30					-----			29	121	121	104	0
31		-----			-----		-----	31	-----	126	102	-----
TOTAL								1,109	1,715	4,093	3,707	1,430
MEAN								35.8	57.2	132	120	47.7
MAX								59	121	144	139	109
MIN								27	33	121	92	0
AC-FT								2,200	3,400	8,120	7,350	2,840
CAL YEAR 2001	MAX	138	MIN	0	AC-FT	18,990						
WTR YEAR 2002	MAX	144	MIN	0	AC-FT	23,910						

# PLATTE RIVER BASIN ( LOUP RIVER )

**TAYLOR-ORD CANAL outlet from Mirdan Canal, 00107200 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	25	78	86	73
2								38	26	79	84	71
3								24	25	87	85	73
4								25	24	89	88	76
5								25	24	89	90	75
6								25	24	87	90	79
7								24	25	86	90	80
8								24	26	87	91	81
9								25	26	85	90	82
10								26	26	81	91	74
11								25	26	81	90	73
12								25	26	83	87	77
13								25	27	85	84	80
14								26	27	84	81	80
15								25	27	83	74	80
16								25	27	83	72	79
17								25	27	83	74	33
18								25	27	83	73	0
19								25	28	83	75	0
20								25	27	81	74	0
21								24	27	81	79	0
22								25	28	81	80	0
23								24	28	83	78	0
24								24	28	84	84	0
25								24	31	85	87	0
26								24	49	86	90	0
27								24	60	86	87	0
28								24	63	85	80	0
29					-----			24	69	86	77	0
30					-----			25	75	86	80	0
31		-----			-----		-----	25	-----	86	76	-----
TOTAL								754	978	2,606	2,567	1,266
MEAN								24.3	32.6	84.1	82.8	42.2
MAX								38	75	89	91	82
MIN								0	24	78	72	0
AC-FT								1,500	1,940	5,170	5,090	2,510
CAL YEAR 2001	MAX	78	MIN	0	AC-FT	11,560						
WTR YEAR 2002	MAX	91	MIN	0	AC-FT	16,210						

**PLATTE RIVER BASIN  
( LOUP RIVER )**

**KENT CANAL from North Loup River, 00076500 - 2002**

LOCATION.--NWL/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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	218	17			
2							0	156	15			
3							0	70	4.9			
4							0	55	0			
5							0	59	0			
6							0	60	0			
7							0	62	0			
8							0	68	0			
9							0	73	0			
10							0	73	0			
11							0	74	0			
12							0	72	0			
13							0	75	0			
14							0	74	0			
15							0	74	12			
16							0	73	19			
17							0	65	18			
18							0	63	38			
19							0	68	52			
20							0	72	53			
21							0	56	49			
22							3.1	48	44			
23							24	49	43			
24							50	48	50			
25							98	47	55			
26							180	47	56			
27							222	48	51			
28							226	29	12			
29					-----		229	19	0			
30					-----		234	20	0			
31		-----			-----		-----	19	-----			-----
TOTAL							1,266.1	2,034	588.9			
MEAN							42.2	65.6	19.6			
MAX							234	218	56			
MIN							0	19	0			
AC-FT							2,510	4,030	1,170			
CAL YEAR 2001	MAX	331	MIN	0	AC-FT	23,750						
WTR YEAR 2002	MAX	234	MIN	0	AC-FT	7,710						

# PLATTE RIVER BASIN ( LOUP RIVER )

## CALAMUS RIVER near Harrop, 06787000 - 2002

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 6.18 feet February 9, 2001 due to backwater from ice; minimum daily discharge 90 cubic feet per second January 7, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge 414 cubic feet per second March 12, gage height 4.17 feet; maximum gage height 5.20 feet January 3 due to backwater from ice; minimum daily discharge 201 cubic feet per second August 2.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	276	294	280E	220E	263	250E	283	304	258	212	205	222
2	280	289	290E	220E	260	250E	273	316	250	213	202	220
3	267	283	300E	300E	260	250E	255	315	247	217	207	218
4	265	278	300E	282	261	309	263	309	248	222	290	218
5	265	283	310E	246	258	314	270	296	248	223	282	228
6	269	293	330	245	264	336	270	298	241	229	253	229
7	269	294	333	243	264	304	275	281	237	231	238	221
8	269	278	324	250	264	273	272	279	260	246	224	215
9	286	279	315	255	260	235E	265	270	242	253	231	210
10	335	281	311	261	245E	250E	262	270	238	236	237	223
11	300	281	305	265	253	322	282	290	233	227	231	235
12	297	292	305	268	259	371	279	294	225	239	244	238
13	308	303	286	272	259	311	282	278	220	241	232	292
14	294	300	284	268	263	324	281	276	215	243	227	280
15	283	297	285	253	259	303	272	276	221	234	214	253
16	277	295	284	257	268	303	266	273	236	226	208	239
17	270	300	280	248	271	310	257	269	247	222	217	234
18	278	300	279	251	275	321	247	266	252	221	210	230
19	278	283	265	254	285	314	235	267	255	222	209	224
20	279	278	268	260	285	312	229	265	251	218	211	219
21	285	289	269	260	283	300E	257	253	238	211	219	216
22	288	306	260	262	284	290E	263	257	229	213	221	217
23	282	326	250E	260	290	293	267	247	228	212	218	217
24	292	367	245E	257	286	288	255	244	239	217	216	221
25	275	373	240E	259	260E	269	242	249	238	219	217	223
26	261	367	245E	262	250E	272	241	252	237	236	229	225
27	273	300E	209	271	240E	285	274	261	229	235	244	223
28	281	280E	240E	261	230E	295	295	312	228	225	260	228
29	281	280E	240E	250E	-----	295	304	308	221	219	244	232
30	275	280E	230E	240E	-----	295	312	300	212	219	233	235
31	287	-----	225E	258	-----	293	-----	277	-----	215	227	-----
TOTAL	8,725	8,949	8,587	7,958	7,399	9,137	8,028	8,652	7,123	6,996	7,100	6,885
MEAN	281	298	277	257	264	295	268	279	237	226	229	230
MAX	335	373	333	300	290	371	312	316	260	253	290	292
MIN	261	278	209	220	230	235	229	244	212	211	202	210
AC-FT	17,310	17,750	17,030	15,780	14,680	18,120	15,920	17,160	14,130	13,880	14,080	13,660
CAL YEAR 2001	TOTAL	111,790	MEAN	306	MAX	675	MIN	209	AC-FT	221,700		
WTR YEAR 2002	TOTAL	95,539	MEAN	262	MAX	373	MIN	202	AC-FT	189,500		

E indicates estimated discharge.



# PLATTE RIVER BASIN ( LOUP RIVER )

**CALAMUS RESERVOIR from Calamus River, 06787300 - 2002**

LOCATION.--NEL/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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68,540	75,900	92,960	109,100	111,100	110,300	110,6001	123,200	128,200	124,700	86,460	62,640
2	68,470	76,420	93,500	109,700	111,100	110,400	111,100	124,000	128,100	123,500	85,000	62,430
3	68,540	76,930	93,960	110,100	111,100	110,500	110,700	124,400	128,100	122,500	83,250	61,980
4	68,230	77,520	94,630	110,500	110,900	110,500	110,500	125,000	128,000	121,300	82,210	60,940
5	68,090	78,080	95,220	110,800	111,100	110,800	111,300	125,100	128,000	120,200	81,290	60,940
6	67,750	78,680	95,730	110,800	111,000	111,100	111,400	125,400	127,900	119,200	80,190	60,500
7	67,440	79,170	96,450	110,800	111,000	111,000	111,600	125,500	127,900	118,200	79,090	59,780
8	67,300	79,620	96,870	110,800	111,000	110,900	112,400	125,600	128,400	117,300	77,970	59,070
9	67,300	80,260	97,440	110,700	111,100	110,800	112,300	125,700	128,300	116,000	76,560	58,380
10	67,670	80,680	98,080	110,700	111,100	110,900	112,500	126,300	128,200	115,000	75,970	57,820
11	66,960	80,790	98,640	110,700	111,100	110,900	113,400	126,100	128,100	113,600	75,090	57,380
12	66,760	81,790	99,250	110,800	111,100	111,000	113,400	126,500	128,000	112,200	74,620	56,890
13	66,620	82,320	99,640	110,800	111,100	111,200	113,200	127,200	127,900	111,100	73,860	56,760
14	66,520	83,060	100,200	110,900	111,100	111,200	114,200	127,300	127,700	110,700	73,540	56,850
15	66,180	83,520	100,700	111,000	111,100	111,100	114,800	126,900	127,500	108,900	72,860	56,670
16	65,980	83,990	101,200	110,900	111,100	111,000	115,300	127,200	127,600	107,400	72,390	56,490
17	66,490	84,490	102,100	110,900	111,100	111,000	115,500	127,100	127,600	106,000	71,290	56,300
18	67,200	85,080	102,500	110,800	111,100	111,000	115,900	127,200	127,500	104,900	70,730	56,090
19	67,850	85,630	103,000	110,900	111,000	111,100	116,000	127,200	127,500	103,500	70,030	55,900
20	68,500	86,180	103,600	110,900	111,000	111,100	116,300	127,400	127,900	102,200	68,950	55,720
21	69,260	86,700	103,800	110,900	111,100	111,000	116,500	127,400	127,900	100,700	68,360	55,540
22	69,890	87,290	104,500	110,800	111,100	110,900	117,500	127,100	127,800	99,690	67,680	55,080
23	70,590	87,850	105,100	110,900	111,100	110,900	118,200	127,600	127,900	98,040	66,930	55,180
24	71,220	89,140	105,700	110,900	111,100	110,700	119,100	127,200	127,900	96,450	66,180	54,900
25	71,820	89,380	106,100	110,900	110,000	110,600	119,300	127,000	127,900	95,180	65,280	54,900
26	72,590	90,120	106,400	110,900	110,000	110,600	119,500	127,000	127,700	94,080	64,540	54,900
27	72,890	90,650	106,900	110,900	110,000	110,600	120,200	127,100	127,700	92,790	64,110	54,810
28	73,400	91,020	107,400	110,900	110,000	110,700	121,200	127,900	127,300	91,670	63,780	54,690
29	74,080	91,470	107,800	110,800	-----	110,600	121,900	128,100	126,700	90,690	63,520	54,750
30	74,700	92,040	108,200	110,800	-----	110,700	122,600	128,200	125,500	89,260	63,220	54,880
31	75,280	-----	108,700	110,900	-----	110,700	-----	128,300	-----	87,850	62,820	-----
MAX	75,280	92,040	108,700	111,000	111,100	111,200	122,600	128,300	128,400	124,700	86,460	62,640
MIN	65,980	75,900	92,960	109,100	110,000	110,300	110,500	123,200	125,500	87,850	62,820	54,690
CHANGE	6,850	16,760	16,660	2,200	-900	700	11,900	5,700	-2,800	-37,650	-25,030	-7,940
CAL YEAR 2001			MEAN	104,514	MAX	132,000	MIN	65,980				
WTR YEAR 2002			MEAN	99,359	MAX	128,400	MIN	54,690				

# PLATTE RIVER BASIN ( LOUP RIVER )

**MIRDAN CANAL from Calamus Reservoir, 00100500 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								45	276	481	666	116
2								112	280	508	658	125
3								188	283	533	651	168
4								186	274	532	645	228
5								188	265	532	542	294
6								195	279	504	490	318
7								199	288	499	533	312
8								218	279	565	559	305
9								217	278	588	583	297
10								205	286	581	459	251
11								202	284	594	417	194
12								206	289	606	297	140
13								206	291	575	220	33
14								207	292	558	245	0
15								206	275	586	281	0
16								227	267	606	350	0
17								235	266	608	376	0
18								232	246	623	393	0
19								229	240	637	435	0
20								230	240	646	414	0
21								239	242	641	380	0
22								254	242	668	380	0
23								258	243	661	388	0
24								269	244	665	382	0
25								270	277	653	375	0
26								264	303	621	350	0
27								262	326	561	225	0
28								262	410	540	165	0
29					-----			261	446	624	170	0
30					-----			265	481	644	153	0
31		-----			-----		-----	274	-----	676	138	-----
TOTAL								6,811	8,692	18,316	12,320	2,781
MEAN								220	290	591	397	92.7
MAX								274	481	676	666	318
MIN								45	240	481	138	0
AC-FT								13,510	17,240	36,330	24,440	5,520
CAL YEAR 2001	MAX	637	MIN	0	AC-FT	64,700						
WTR YEAR 2002	MAX	676	MIN	0	AC-FT	97,030						

# PLATTE RIVER BASIN ( LOUP RIVER )

## CALAMUS FISH HATCHERY INLET from Calamus Reservoir, 00019800 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	4.6	5.8	5.2	5.2	5.3	5.0	4.0	6.2	16	12	10
2	4.5	4.8	5.7	5.3	5.3	5.2	4.8	3.8	6.1	14	12	9.6
3	4.5	4.7	5.7	5.3	5.3	5.3	4.7	6.3	5.9	15	12	9.6
4	4.5	4.8	5.6	5.3	5.2	5.3	4.6	6.6	5.8	14	12	9.4
5	4.5	4.8	5.2	5.2	5.3	5.2	4.1	5.2	5.2	14	12	9.5
6	4.5	4.7	5.0	5.3	5.3	5.2	4.0	5.5	4.7	15	11	9.7
7	4.5	4.6	5.1	5.3	5.2	5.2	4.1	6.9	5.5	15	11	11
8	4.5	4.6	5.1	5.3	5.3	5.2	4.9	6.8	5.8	15	12	9.7
9	4.5	4.8	5.1	5.3	5.2	5.2	12	8.8	5.7	14	12	8.6
10	4.5	4.7	5.1	5.2	5.3	5.2	12	8.5	7.2	13	14	8.0
11	4.5	4.8	5.1	5.3	5.3	5.2	9.0	8.7	13	12	14	7.8
12	4.5	4.8	5.2	5.2	5.3	5.0	7.7	13	17	12	13	8.5
13	4.5	4.8	5.1	5.4	5.3	5.0	4.9	8.7	14	11	12	12
14	4.5	4.7	5.1	5.3	5.2	5.0	7.1	8.7	15	11	12	13
15	4.5	4.6	5.1	5.3	5.3	5.1	9.5	8.6	17	11	11	15
16	4.5	4.6	5.1	5.3	5.3	5.0	6.7	8.4	17	11	11	13
17	4.5	4.6	5.1	5.4	5.3	4.9	6.3	8.4	13	11	11	16
18	4.5	4.6	5.3	5.3	5.3	5.0	8.9	8.8	12	11	11	17
19	4.5	4.6	5.3	5.3	5.3	4.9	13	9.5	16	11	11	18
20	4.5	4.7	5.3	5.3	5.2	5.1	16	8.9	15	11	11	12
21	4.5	4.7	5.3	5.2	5.3	5.0	16	8.5	16	11	11	11
22	4.5	4.6	5.3	5.2	5.2	5.0	16	9.6	16	12	11	9.8
23	4.5	4.6	5.2	5.2	5.3	5.0	17	8.6	16	12	11	9.0
24	4.5	4.7	5.3	5.2	5.2	5.1	12	8.8	15	12	11	12
25	4.5	4.7	5.2	5.3	5.3	5.1	16	9.0	15	13	10	18
26	4.5	5.3	5.1	5.3	5.3	5.2	19	8.7	19	13	10	19
27	4.5	5.8	5.2	5.3	5.2	5.1	5.0	8.1	20	12	10	18
28	4.5	5.8	5.2	5.3	5.2	5.2	4.8	6.7	20	12	10	16
29	4.5	5.7	5.2	5.3	-----	5.1	5.6	6.6	19	14	10	16
30	4.5	5.8	5.3	5.3	-----	5.2	7.2	6.0	19	13	10	16
31	4.5	-----	5.3	5.2	-----	5.1	-----	6.0	-----	12	10	-----
TOTAL	139.5	145.6	162.7	163.6	147.4	158.6	267.9	240.7	382.1	393	351	372.2
MEAN	4.50	4.85	5.25	5.28	5.26	5.12	8.93	7.76	12.7	12.7	11.3	12.4
MAX	4.5	5.8	5.8	5.4	5.3	5.3	19	13	20	16	14	19
MIN	4.5	4.6	5.0	5.2	5.2	4.9	4.0	3.8	4.7	11	10	7.8
AC-FT	277	289	323	325	292	315	531	477	758	780	696	738
CAL YEAR 2001	TOTAL	3,080.60	MEAN	8.44	MAX	19	MIN	1.2	AC-FT	6,110		
WTR YEAR 2002	TOTAL	2,924.30	MEAN	8.01	MAX	20	MIN	3.8	AC-FT	5,800		

# PLATTE RIVER BASIN ( LOUP RIVER )

**INLET TO DAVIS CREEK RESERVOIR from Mirdan Canal, 00088500 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	242	232	83	180	40
2							0	240	230	87	180	40
3							0	237	227	99	182	42
4							0	234	228	104	183	45
5							0	236	232	103	193	79
6							0	233	232	93	196	85
7							0	226	226	87	201	84
8							0	226	252	106	207	90
9							0	229	242	132	208	97
10							0	227	238	132	143	116
11							0	228	241	118	112	98
12							0	231	241	121	107	64
13							0	231	241	126	90	47
14							0	231	239	140	83	39
15							0	230	238	142	78	35
16							0	230	237	139	65	39
17							0	230	237	148	41	44
18							0	230	236	159	31	49
19							0	229	234	173	43	39
20							0	229	233	182	45	22
21							0	228	232	180	46	9.0
22							0	225	226	179	51	12
23							0	225	224	170	55	5.6
24							0	225	206	171	76	.45
25							8.0	226	174	186	88	0
26							70	229	140	190	101	0
27							175	233	126	187	86	0
28							198	236	107	183	79	0
29					-----		214	234	94	184	83	0
30					-----		232	234	91	181	52	0
31		-----			-----		-----	234	-----	183	37	-----
TOTAL							897.0	7,158	6,336	4,468	3,322	1,221.05
MEAN							29.9	231	211	144	107	40.7
MAX							232	242	252	190	208	116
MIN							0	225	91	83	31	0
AC-FT							1,780	14,200	12,570	8,860	6,590	2,420
CAL YEAR 2001	MAX	246	MIN	0	AC-FT	41,570						
WTR YEAR 2002	MAX	252	MIN	0	AC-FT	46,420						

# PLATTE RIVER BASIN ( LOUP RIVER )

## DAVIS CREEK RESERVOIR from Calamus Reservoir via Mirdan Canal, 06789400 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15,990	15,420	15,110	14,880	14,410	14,010	13,600	14,640	24,440	28,090	15,260	7,700
2	15,960	15,400	15,090	14,870	14,390	14,000	12,580	15,100	24,720	27,400	14,820	7,580
3	15,930	15,390	15,080	14,850	14,390	13,980	13,560	15,440	25,000	26,750	14,440	7,270
4	15,910	15,370	15,070	14,840	14,370	13,970	13,530	15,820	25,360	26,170	14,240	6,970
5	15,890	15,350	15,060	14,820	14,370	13,960	13,510	16,200	25,610	25,570	14,040	6,690
6	15,870	15,330	15,050	14,810	14,360	13,950	13,500	16,600	25,900	25,030	14,060	6,460
7	15,860	15,310	15,040	14,800	14,350	13,930	13,480	16,870	26,200	24,540	14,080	6,250
8	15,850	15,290	15,020	14,780	14,330	13,920	13,480	17,180	26,470	24,010	14,080	6,020
9	15,840	15,270	15,020	14,770	14,310	13,910	13,450	17,460	26,780	23,520	14,020	5,810
10	15,820	15,250	15,000	14,760	14,290	13,890	13,430	17,770	27,100	23,080	13,970	5,730
11	15,810	15,220	15,000	14,740	14,270	13,880	13,420	18,130	27,410	22,530	13,720	5,730
12	15,790	15,200	15,000	14,720	14,250	13,870	13,410	18,400	27,700	22,030	13,450	5,750
13	15,780	15,180	14,990	14,700	14,230	13,850	13,410	18,710	27,980	21,490	13,000	5,760
14	15,760	15,160	14,980	14,690	14,210	13,840	13,410	18,980	28,260	21,060	12,730	5,870
15	15,720	15,140	14,970	14,670	14,190	13,830	13,400	19,300	28,540	20,670	12,290	5,860
16	15,690	15,120	14,970	14,660	14,180	13,820	13,380	19,580	28,400	20,280	11,870	5,970
17	15,680	15,100	14,960	14,640	14,160	13,810	13,360	19,880	29,120	19,770	11,390	6,070
18	15,670	15,090	14,950	14,620	14,150	13,780	13,340	20,150	29,410	19,290	11,000	6,210
19	15,660	15,060	14,950	14,600	14,150	13,770	13,310	20,440	29,670	18,830	10,730	6,320
20	15,640	15,040	14,940	14,590	14,140	13,760	13,290	20,760	30,000	18,480	10,520	6,250
21	15,630	15,040	14,930	14,570	14,120	13,740	13,260	21,040	30,230	18,280	10,390	6,350
22	15,610	15,020	14,930	14,550	14,110	13,730	13,240	21,370	30,460	18,010	10,100	6,270
23	15,590	15,020	14,920	14,540	14,100	13,720	13,210	21,650	30,640	17,710	9,679	6,390
24	15,560	15,020	14,910	14,530	14,080	13,710	13,190	21,890	30,840	17,390	9,290	6,310
25	15,520	15,200	14,910	14,510	14,070	13,690	13,070	22,200	30,780	17,170	8,941	6,400
26	15,510	15,220	14,910	14,500	14,060	13,670	13,060	22,510	30,600	16,930	8,572	6,400
27	15,500	15,210	14,900	14,490	14,040	13,650	13,210	22,840	30,270	16,680	8,348	6,430
28	15,480	15,200	14,900	14,470	14,020	13,640	13,510	23,240	29,810	16,570	8,201	6,470
29	15,470	15,150	14,890	14,450	-----	13,630	13,770	23,510	29,290	16,350	8,132	6,470
30	15,450	15,110	14,890	14,430	-----	13,620	14,240	23,820	28,730	16,030	8,060	6,500
31	15,4201	-----	14,890	14,420	-----	13,600	-----	24,150	-----	16,650	7,881	-----
MAX	15,990	15,420	15,110	14,880	14,410	14,010	14,240	24,150	30,840	28,090	15,260	7,700
MIN	15,420	15,020	14,890	14,420	14,020	13,600	12,580	14,640	24,440	16,030	7,881	5,730
CHANGE	-600	-310	-220	-470	-400	-420	640	9,910	4,580	-12,080	-8,769	-1,381
CAL YEAR 2001			MEAN	19,834	MAX	28,400	MIN	14,890				
WTR YEAR 2002			MEAN	15,722	MAX	30,840	MIN	5,730				

**PLATTE RIVER BASIN  
( LOUP RIVER )**

**FULLERTON CANAL from Davis Creek Reservoir, 00054700 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	28	55	377	355	125
2							0	28	55	374	350	144
3							0	27	55	368	291	178
4							0	28	55	360	297	202
5							0	28	56	348	220	206
6							0	42	56	324	172	205
7							0	57	57	324	196	189
8							0	57	57	330	212	182
9							0	57	57	345	232	158
10							0	57	58	350	231	140
11							0	58	59	349	255	95
12							0	58	59	349	262	61
13							0	59	59	338	242	13
14							0	58	59	325	258	0
15							0	59	59	333	279	0
16							0	60	59	361	300	0
17							0	54	59	381	230	0
18							0	51	59	374	161	0
19							0	51	59	346	160	0
20							0	51	60	286	159	0
21							0	50	82	286	188	0
22							8.3	51	89	304	230	0
23							23	52	99	289	249	0
24							27	52	138	302	262	0
25							28	53	208	303	261	0
26							27	53	247	300	231	0
27							27	54	293	255	164	0
28							27	54	326	240	129	0
29					-----		28	54	315	310	124	0
30					-----		28	54	345	355	125	0
31		-----			-----		-----	55	-----	362	125	-----
TOTAL							223.3	1,550	3,294	10,248	6,950	1,898
MEAN							7.44	50.0	110	331	224	63.3
MAX							28	60	345	381	355	206
MIN							0	27	55	240	124	0
AC-FT							443	3,070	6,530	20,330	13,790	3,760
CAL YEAR 2001	MAX	378	MIN	0	AC-FT	44,390						
WTR YEAR 2002	MAX	381	MIN	0	AC-FT	47,930						

# PLATTE RIVER BASIN ( LOUP RIVER )

## CALAMUS RIVER near Burwell, 06787500 - 2002

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 fair, except estimated records are poor.

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 879 cubic feet per second December 6, gage height 4.42 feet; minimum daily discharge 24 cubic feet per second October 19, 23-27.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	327	64	64	69	280E	300	350	29	33	280	283	309
2	328	64	64	68	290E	288	265	28	33	275	282	332
3	409	64	65	95	290E	315	232	28	33	270	281	318
4	433	63	62	160E	300E	319	213	28	34	268	284	309
5	426	64	65	330E	310E	311	214	28	34	266	315	317
6	420	63	100	340E	330E	347	215	28	34	262	328	318
7	418	62	58	343E	350E	396	216	28	34	260	328	315
8	420	62	60	346	360E	405	211	27	34	278	301	315
9	419	62	62	347	370E	399	214	27	33	284	307	292
10	421	63	65	340	380E	389	218	27	34	285	325	285
11	423	63	67	323	390E	332	203	27	34	281	324	290
12	422	63	67	308	390E	330	156	27	34	281	323	297
13	423	61	68	315	390E	386	142	27	42	306	308	333
14	421	62	68	300E	380E	387	142	26	38	333	274	367
15	421	63	68	300E	360E	387	146	26	33	340	273	388
16	332E	63	66	290E	360E	386	155	27	31	341	273	388
17	320E	64	64	290E	360E	387	168	27	32	330	272	385
18	30E	65	64	290E	360E	389	186	27	32	322	275	385
19	24E	64	66	300E	360E	385	202	28	31	320	272	384
20	26E	63	64	320	358	384	210	28	34	318	271	388
21	25E	63	63	325	361	387	214	28	33	320	291	393
22	25E	64	64	328E	362	387	189	28	34	320	299	363
23	24	66	82	330E	367	385	35	28	34	320	297	329
24	24	66	72E	330E	363	388	27	29	33	316	301	329
25	24	65	72E	320E	338	364	28	29	37	314	302	327
26	24E	66	72E	320E	359	349	28	28	33	295	302	331
27	24E	62	71	320E	363	352	29	29	32	292	304	331
28	50E	64	71	310E	308	358	29	29	84	291	301	327
29	70E	64	68E	280E	-----	359	28	32	205	286	296	327
30	68E	63	68E	280E	-----	360	28	33	254	290	293	326
31	63	-----	69	280E	-----	363	-----	34	-----	288	291	-----
TOTAL	7,284	1,905	2,099	8,897	9,789	11,274	4,693	875	1,456	9,232	9,176	10,098
MEAN	235	63.5	67.7	287	350	364	156	28.2	48.5	298	296	337
MAX	433	66	100	347	390	405	350	34	254	341	328	393
MIN	24	61	58	68	280	288	27	26	31	260	271	285
AC-FT	14,450	3,780	4,160	17,650	19,420	22,360	9,310	1,740	2,890	18,310	18,200	20,030
CAL YEAR 2001	TOTAL	100,930	MEAN	277	MAX	723	MIN	19	AC-FT	200,200		
WTR YEAR 2002	TOTAL	76,778	MEAN	210	MAX	433	MIN	24	AC-FT	152,300		

E indicates estimated discharge.

# PLATTE RIVER BASIN ( LOUP RIVER )

**BURWELL-SUMTER CANAL from North Loup River, 00108000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	36	67	101	113	75
2							0	41	64	107	114	78
3							0	43	63	110	118	78
4							0	44	51	107	123	77
5							0	42	46	107	117	75
6							0	42	48	109	116	69
7							0	42	44	114	114	69
8							0	43	43	114	112	68
9							0	42	39	112	119	69
10							0	40	37	117	118	65
11							0	42	38	116	108	61
12							0	43	39	117	108	60
13							0	48	39	117	113	51
14							0	55	39	119	112	46
15							0	59	36	118	111	46
16							0	61	36	119	113	21
17							0	63	36	119	116	0
18							0	63	33	115	118	0
19							0	63	36	119	115	0
20							0	62	54	120	112	0
21							0	61	59	118	111	0
22							0	59	52	119	113	0
23							48	60	51	120	113	0
24							82	62	57	122	112	0
25							40	62	63	123	114	0
26							37	62	64	120	114	0
27							36	65	67	120	107	0
28							40	68	75	121	97	0
29					-----		39	72	77	118	98	0
30					-----		40	71	90	114	85	0
31		-----			-----		-----	69	-----	113	74	-----
TOTAL							362	1,685	1,543	3,585	3,428	1,008
MEAN							12.1	54.4	51.4	116	111	33.6
MAX							82	72	90	123	123	78
MIN							0	36	33	101	74	0
AC-FT							718	3,340	3,060	7,110	6,800	2,000
CAL YEAR 2001	MAX	126	MIN	0	AC-FT	18,780						
WTR YEAR 2002	MAX	123	MIN	0	AC-FT	23,030						



# PLATTE RIVER BASIN ( LOUP RIVER )

## NORTH LOUP RIVER at Ord, 06788500 - 2002

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 3,850 cubic feet per second March 14, gage height 3.91 feet; maximum gage height 5.18 feet January 3 due to backwater from ice; minimum daily discharge 220 cubic feet per second estimated December 25.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,060	713	950	410E	1,280	500E	1,060	335	446	445	468	743
2	1,080	718	994	480E	1,330	400E	1,000	498	385	426	463	738
3	1,090	713	958	600E	1,220	500E	955	682	407	382	452	727
4	1,200	701	963	800E	1,050	700E	926	626	536	393	496	708
5	1,160	732	1,010	1,000E	1,020	750E	870	605	498	392	670	718
6	1,110	759	1,040	1,100E	966	900E	930	584	473	422	671	734
7	1,130	773	945	1,200E	959	1,000E	946	605	606	415	626	721
8	1,130	769	941	1,100E	950	1,050E	940	627	2,230	414	588	710
9	1,150	729	893	1,200E	930	1,000E	1,010	592	929	469	522	715
10	1,200	668	865	1,200E	828	1,100E	995	518	616	500	665	757
11	1,160	637	865	1,290	884	1,300E	970	509	556	468	772	777
12	1,200	633	898	836	849	1,600E	938	528	527	447	860	866
13	1,290	680	921	881	969	1,800E	886	537	525	465	781	932
14	1,270	754	875	785	1,030	2,040	914	436	520	505	745	1,000
15	1,210	742	817	761	1,020	1,410	945	407	519	510	673	1,050
16	1,190	722	884	696	1,010	1,010	937	399	512	520	609	1,090
17	708	708	806	593	1,030	939	922	392	501	501	611	1,060
18	665	713	754	562	1,060	936	918	403	485	497	577	1,020
19	705	708	751	609	1,070	899	878	417	477	485	584	976
20	707	724	769	630	1,070	916	863	408	464	472	577	962
21	695	697	692	793	1,080	816	816	415	453	455	568	947
22	675	676	644	839	1,140	797	702	412	433	430	567	941
23	609	747	500	855	1,160	841	603	392	412	431	579	872
24	644	903	270	813	1,210	926	584	419	381	434	632	869
25	687	847	220E	812	1,080	936	602	431	357	508	641	861
26	641	776	260E	827	950E	931	457	453	320	508	676	890
27	654	635	360E	866	700E	950	447	429	330	509	761	874
28	641	250E	470E	860E	600E	969	450	574	271	511	884	836
29	632	310E	800E	860E	-----	1,020	532	612	415	507	803	847
30	726	780	690E	893	-----	1,050	459	548	425	511	779	865
31	712	-----	410E	1,050	-----	1,060	-----	502	-----	505	750	-----
TOTAL	28,731	20,917	23,215	26,201	28,445	31,046	24,455	15,295	16,009	14,437	20,050	25,806
MEAN	927	697	749	845	1,016	1,001	815	493	534	466	647	860
MAX	1,290	903	1,040	1,290	1,330	2,040	1,060	682	2,230	520	884	1,090
MIN	609	250	220	410	600	400	447	335	271	382	452	708
AC-FT	56,990	41,490	46,050	51,970	56,420	61,580	48,510	30,340	31,750	28,640	39,770	51,190
CAL YEAR 2001	TOTAL	350,304	MEAN	960	MAX	2,690	MIN	220	AC-FT	694,800		
WTR YEAR 2002	TOTAL	274,607	MEAN	752	MAX	2,230	MIN	220	AC-FT	544,700		

E indicates estimated discharge.

**PLATTE RIVER BASIN  
( LOUP RIVER )**

**ORD-NORTH LOUP CANAL from North Loup River, 00109000 - 2002**

LOCATION.--NWL/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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	21	35	130	117	45
2							0	27	34	129	115	42
3							0	24	38	118	116	44
4							0	23	38	118	122	42
5							0	22	37	115	117	44
6							0	23	35	106	110	42
7							0	24	36	106	114	40
8							0	24	16	106	113	42
9							0	24	28	115	114	37
10							0	24	28	124	119	29
11							0	29	29	122	114	13
12							0	29	29	120	112	0
13							0	29	28	125	99	0
14							0	27	26	123	91	0
15							0	30	27	122	93	0
16							0	29	27	118	90	0
17							0	32	27	117	93	0
18							0	33	25	121	95	0
19							0	34	21	118	95	0
20							0	34	23	117	96	0
21							0	33	23	114	93	0
22							0	34	22	117	93	0
23							0	33	21	121	94	0
24							0	33	29	119	104	0
25							0	31	44	118	92	0
26							0	34	58	115	81	0
27							0	37	72	121	74	0
28							0	36	82	121	62	0
29					-----		3.4	36	106	112	59	0
30					-----		16	36	127	103	55	0
31		-----			-----		-----	37	-----	102	45	-----
TOTAL							19.4	922	1,171	3,633	2,987	420
MEAN							.65	29.7	39.0	117	96.4	14.0
MAX							16	37	127	130	122	45
MIN							0	21	16	102	45	0
AC-FT							38	1,830	2,320	7,210	5,920	833
CAL YEAR 2001	MAX	123	MIN	0	AC-FT	15,290						
WTR YEAR 2002	MAX	130	MIN	0	AC-FT	18,150						

# PLATTE RIVER BASIN ( LOUP RIVER )

**MIRA CREEK near North Loup, 06788988 - 2002**

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 23 cubic feet per second June 9, gage height 1.46 feet; minimum daily discharge 0.26 cubic feet per second September 30.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.3	4.4	3.2	3.9	3.8	3.5	2.9	3.8	4.1	7.7	8.9
2	1.4	1.2	4.2	2.6	3.9	5.9	3.9	3.6	3.4	5.5	7.7	7.0
3	1.2	1.2	4.1	2.5	4.0	6.9	3.6	3.4	4.0	6.9	10	4.4
4	1.2	1.1	3.9	1.9	4.1	5.7	3.2	3.3	4.0	7.4	12	3.7
5	1.2	1.2	3.9	2.0	4.0	4.1	3.0	3.1	3.7	7.6	14	3.8
6	.96	1.2	3.8	2.3	3.9	4.4	2.8	2.9	3.5	6.5	16	3.4
7	.93	1.2	3.6	2.4	4.1	4.5	3.0	2.8	2.9	6.0	14	3.0
8	.95	1.2	3.4	2.6	4.3	4.4	3.5	2.6	4.7	6.9	11	2.6
9	.89	1.3	3.3	3.0	4.4	4.1	3.5	2.5	13	8.2	10	2.7
10	1.1	1.2	3.5	3.0	4.7	4.7	3.0	2.0	16	7.9	9.8	4.5
11	1.1	1.2	3.5	3.0	5.3	4.3	3.0	4.0	9.9	8.1	10	4.1
12	1.2	1.6	3.5	3.1	5.1	4.7	2.7	5.6	7.6	13	13	3.6
13	1.4	1.7	3.5	3.2	5.0	5.7	4.5	6.5	7.6	12	14	4.9
14	1.1	1.7	3.3	3.2	5.4	5.9	3.2	6.2	4.0	10	13	4.9
15	1.1	1.5	3.4	3.1	5.2	5.0	2.4	5.6	3.2	9.4	12	4.1
16	1.0	1.4	3.4	3.3	5.2	4.8	2.2	5.1	3.1	9.5	10	2.7
17	.93	1.3	3.2	3.5	5.2	4.6	1.9	5.0	3.3	8.4	7.9	2.5
18	1.2	1.5	3.1	3.6	5.5	6.1	1.6	4.2	3.2	7.2	6.6	2.3
19	.78	1.6	2.9	3.6	5.7	5.4	1.7	3.8	2.8	9.3	6.4	2.2
20	.96	1.6	3.1	3.7	5.6	4.3	1.7	3.6	3.1	9.5	6.2	1.7
21	.98	1.6	3.3	3.7	5.5	3.8	2.1	3.6	3.0	9.4	6.6	1.5
22	.98	1.6	3.2	3.5	5.5	3.7	2.0	3.3	3.3	9.7	7.2	1.4
23	1.1	2.8	2.9	3.4	5.3	3.9	1.7	3.1	3.1	8.1	7.8	1.3
24	1.1	6.6	3.1	3.5	5.3	3.9	1.9	3.1	2.9	7.3	9.2	1.0
25	1.2	7.3	3.0	3.7	5.4	3.8	1.8	3.2	2.5	7.4	9.1	.85
26	1.2	7.0	3.0	3.7	5.2	3.7	1.8	3.6	1.9	8.0	11	.75
27	1.2	6.1	2.7	3.8	6.3	3.5	2.8	5.2	2.0	10	12	.81
28	1.2	4.5	2.7	3.7	6.2	3.7	3.6	6.2	2.6	10	12	.60
29	1.2	5.0	3.2	4.4	-----	3.7	2.9	6.4	2.8	8.9	17	.54
30	1.2	4.8	2.9	4.3	-----	3.5	2.8	7.3	3.2	8.5	16	.43
31	1.2	-----	2.9	3.6	-----	3.7	-----	4.5	-----	8.4	12	-----
TOTAL	34.66	74.5	103.9	100.1	139.2	140.2	81.3	128.2	134.1	259.1	331.2	86.18
MEAN	1.12	2.48	3.35	3.23	4.97	4.52	2.71	4.14	4.47	8.36	10.7	2.87
MAX	1.5	7.3	4.4	4.4	6.3	6.9	4.5	7.3	16	13	17	8.9
MIN	.78	1.1	2.7	1.9	3.9	3.5	1.6	2.0	1.9	4.1	6.2	.43
AC-FT	69	148	206	199	276	278	161	254	266	514	657	171
CAL YEAR 2001	TOTAL	3,905.36	MEAN	10.7	MAX	294	MIN	.78	AC-FT	7,750		
WTR YEAR 2002	TOTAL	1,612.64	MEAN	4.42	MAX	17	MIN	.43	AC-FT	3,200		

# PLATTE RIVER BASIN ( LOUP RIVER )

## CEDAR RIVER near Spalding, 06791500 - 2002

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 303 cubic feet per second on March 16, gage height 3.80 feet; maximum gage height 4.79 feet March 3 due to backwater from ice; minimum daily discharge 95 cubic feet per second March 29.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	189	220E	130E	160E	180E	196	219	163	120	119	145
2	181	185	200E	140E	170E	180E	198	223	160	122	120	143
3	178	179	190E	140E	160E	190E	195	221	157	121	120	140
4	174	180	180E	150E	170E	200E	189	220	159	121	126	140
5	182	186	180E	150E	180E	200E	188	217	161	123	130	139
6	177	191	190E	160E	170E	190E	195	212	162	120	128	141
7	185	192	210E	170E	170E	180E	198	209	157	118	124	139
8	185	187	230E	180E	168	200E	199	205	171	119	124	137
9	186	186	230E	180E	168	210E	196	196	188	119	122	137
10	185	190	225E	190E	170E	220E	195	195	182	121	126	157
11	187	192	224	200E	170E	230E	191	204	170	122	129	160
12	184	197	216	190E	170E	240E	193	206	163	122	127	154
13	183	198	200	190E	170E	210	193	204	157	123	126	159
14	183	196	196	190E	170E	236	188	202	148	121	123	172
15	175	144	194	190E	180E	228	185	194	145	120	122	171
16	169	238	192	198	180E	254	184	189	145	117	124	160
17	169	187	189	187	180E	224	177	183	145	114	124	153
18	174	210E	187	183	190E	221	177	181	146	112	126	150
19	178	190E	180	181	200E	229	172	177	144	113	125	149
20	183	190E	175	175	190E	228	172	174	152	111	126	146
21	185	190E	174	175	190E	216	187	173	150	110	125	145
22	186	200E	171	171	191	214	194	168	144	109	131	142
23	186	220E	170E	175	232	220	193	168	138	111	142	142
24	183	240E	170E	177	192	221	191	166	134	112	164	140
25	181	250E	160E	180E	190E	220	184	166	130	110	157	141
26	178	240E	160E	180E	180E	210	185	166	129	113	155	145
27	178	210E	150E	190E	170E	203	199	166	128	115	154	145
28	183	180E	150E	140E	180E	204	211	178	126	115	155	146
29	186	180E	140E	130E	-----	95	219	179	125	118	152	146
30	186	200E	140E	140E	-----	135	221	174	121	119	149	146
31	185	-----	130E	150E	-----	191	-----	167	-----	117	145	-----
TOTAL	5,617	5,917	5,723	5,282	5,011	6,379	5,765	5,902	4,500	3,628	4,120	4,430
MEAN	181	197	185	170	179	206	192	190	150	117	133	148
MAX	187	250	230	200	232	254	221	223	188	123	164	172
MIN	169	144	130	130	160	95	172	166	121	109	119	137
AC-FT	11,140	11,740	11,350	10,480	9,940	12,650	11,430	11,710	8,930	7,200	8,170	8,790
CAL YEAR 2001	TOTAL	76,993	MEAN	211	MAX	700	MIN	120	AC-FT	152,700		
WTR YEAR 2002	TOTAL	62,274	MEAN	171	MAX	254	MIN	95	AC-FT	123,500		

E indicates estimated discharge.

# PLATTE RIVER BASIN ( LOUP RIVER )

## CEDAR RIVER near Fullerton, 06792000 - 2002

LOCATION.--SE1/4SE1/4 Sec. 33-17-6 W., Nance County, Lat. 41° 23' 45", Long. 98° 00' 15", 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 691 cubic feet per second June 12, gage height 2.36 feet; maximum gage height 3.80 feet March 9 due to backwater from ice; minimum daily discharge 49 cubic feet per second July 21.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	214	325	190E	300E	270E	265	306	264	87	63	172
2	198	216	285	190E	320E	270E	305	303	253	134	61	152
3	209	225	263	210E	320E	290E	285	287	239	118	63	142
4	181	223	255	230E	330E	300E	262	286	244	82	140	131
5	204	223	259	240E	320E	300E	240	282	254	86	135	126
6	190	224	265	250E	314	290E	240	291	251	93	169	156
7	189	225	262	270E	311	270E	245	284	255	88	125	112
8	199	232	309	280E	307	270E	243	285	255	85	118	106
9	200	233	295	280E	283	300E	242	272	265	88	122	111
10	317	231	288	290E	230	320E	240	252	286	123	156	143
11	228	237	276	280E	263	350E	240	293	376	76	177	159
12	224	236	271	280E	270E	390E	331	339	430	84	246	224
13	223	235	259	290E	280E	451	212	317	249	119	308	278
14	220	235	254	280E	280E	412	159	297	169	79	239	213
15	229	239	247	284E	290E	388	271	304	215	71	218	194
16	234	227	240	280E	293	362	288	293	214	77	239	210
17	237	227	232	270E	271	354	164	262	228	80	212	189
18	225	249	228	260E	275	341	176	269	226	64	153	170
19	228	233	221	260E	289	388	208	251	213	84	102	166
20	240	234	228	250E	280	372	206	250E	215	61	101	164
21	217	235	230E	240E	276	387	226	260E	219	49	99	161
22	224	240	220E	240E	270	393	225	250E	232	82	89	165
23	237	262	220E	250E	267	383	254	240E	218	96	76	164
24	234	346	210E	220E	280E	398	231	240E	207	75	110	162
25	225	377	210E	210E	310E	396	203	230E	188	71	145	162
26	220	392	200E	199	300E	382	201	260E	154	87	183	163
27	210	359	200E	200	270E	376	229	300E	113	92	193	166
28	205	254	200E	200	280E	369	269	325E	143	87	185	169
29	205	263	190E	139	-----	365	300	293	108	79	182	180
30	203	278	190E	190	-----	148	322	282	117	66	179	179
31	210	-----	180E	282	-----	184	-----	287	-----	68	178	-----
TOTAL	6,749	7,604	7,512	7,534	8,079	10,469	7,282	8,690	6,800	2,631	4,766	4,989
MEAN	218	253	242	243	289	338	243	280	227	84.9	154	166
MAX	317	392	325	290	330	451	331	339	430	134	308	278
MIN	181	214	180	139	230	148	159	230	108	49	61	106
AC-FT	13,390	15,080	14,900	14,940	16,020	20,770	14,440	17,240	13,490	5,220	9,450	9,900
CAL YEAR 2001	TOTAL	107,343	MEAN	294	MAX	1,900	MIN	75	AC-FT	212,900		
WTR YEAR 2002	TOTAL	83,105	MEAN	228	MAX	451	MIN	49	AC-FT	164,800		

E indicates estimated discharge.

# PLATTE RIVER BASIN ( LOUP RIVER )

**BEAVER CREEK at Loretto, 06793500 - 2002**

LOCATION.--N<sup>1</sup>E1/4SE1/4 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 185 cubic feet per second March 13, gage height 2.71 feet; minimum daily discharge 18 cubic feet per second July 11.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	56	100E	58E	72E	96E	97	111	58	23	22	36
2	56	56	117	60E	76E	100E	91	112	56	21	22	33
3	55	56	123	60E	80E	80E	88	119	54	22	24	32
4	54	56	130	62E	84E	74E	87	108	57	27	26	32
5	54	57	143	66E	90E	70E	85	99	61	24	45	31
6	53	58	174	70E	100	74E	84	91	60	26	41	30
7	54	58	159	74E	101	88E	83	84	57	27	34	28
8	54	58	145	76E	100	100E	82	82	59	23	33	29
9	59	60	132	86E	96	110E	80	80	66	21	33	30
10	59	60	122	92E	90	138	80	79	62	20	33	46
11	61	62	118	96E	89	133	79	91	58	18	33	44
12	58	64	112	98	101	123	79	129	55	28	30	38
13	60	66	92E	99	101	162	82	118	53	32	28	49
14	59	66	108	96E	103	157	81	107	50	31	28	50
15	56	67	107	90E	104	131	78	96	49	29	24	44
16	55	68	105	80E	108	118	76	89	48	26	25	42
17	56	70	104	76E	112	114	71	80	48	24	28	40
18	57	70	102	70E	113	117	70	76	48	25	27	39
19	56	68	94E	80E	113	121	68	74	45	26	27	38
20	56	70	92E	84E	112	119	68	72	46	27	28	37
21	57	71	90E	90E	108	109	72	70	51	24	28	36
22	58	72	86E	94	105	101	78	69	50	21	30	37
23	58	76	78E	92	104	100	78	65	45	21	41	39
24	56	134	70E	89	103	97	74	63	42	22	36	39
25	56	176	70E	90	80E	94	70	63	40	24	35	39
26	55	151	74E	90	70E	93	70	64	36	29	37	40
27	56	100E	78E	88E	80E	95	82	63	33	28	40	47
28	56	88E	74E	82E	76E	97	155	67	32	27	38	45
29	56	70E	70E	76E	-----	99	146	68	30	25	37	43
30	56	78E	66E	72E	-----	98	127	65	25	24	36	45
31	57	-----	62E	68E	-----	97	-----	61	-----	24	36	-----
TOTAL	1,753	2,262	3,197	2,504	2,671	3,305	2,561	2,615	1,474	769	985	1,158
MEAN	56.5	75.4	103	80.8	95.4	107	85.4	84.4	49.1	24.8	31.8	38.6
MAX	61	176	174	99	113	162	155	129	66	32	45	50
MIN	53	56	62	58	70	70	68	61	25	18	22	28
AC-FT	3,480	4,490	6,340	4,970	5,300	6,560	5,080	5,190	2,920	1,530	1,950	2,300
CAL YEAR 2001	TOTAL	37,460	MEAN	103	MAX	800	MIN	21	AC-FT	74,300		
WTR YEAR 2002	TOTAL	25,254	MEAN	69.2	MAX	176	MIN	18	AC-FT	50,090		

E indicates estimated discharge.

**PLATTE RIVER BASIN  
( ELKHORN RIVER )**

**ELKHORN RIVER near Atkinson, 06796973 - 2002**

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 1.1 cubic feet per second August 31 to September 3, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharge 103 cubic feet per second May 3, gage height 3.67 feet; maximum gage height 4.21 feet  
January 17, due to backwater from ice; minimum daily discharge 0.25 cubic feet per second August 17.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	26	34E	32E	34E	37E	71	74	28	7.9	.41	.54
2	24	25	36E	33E	35E	38E	66	82	26	6.7	.39	.40
3	23	26	34E	34E	39E	40E	60	98	26	6.5	.66	.38
4	22	26	34	37E	38E	42E	59	102	25	6.5	1.3	.37
5	23	26	35	38E	40E	40E	59	93	25	5.8	1.9	.48
6	23	26	37	40E	38E	40E	57	81	24	5.0	1.0	.47
7	23	25	39	38E	37E	42E	59	70	23	4.3	.62	.32
8	23	24	40	40E	37E	42E	57	66	25	4.2	.54	.26
9	24	25	41	42E	37E	41E	54	59	24	3.8	.64	.38
10	30	25	41	40E	35E	42E	53	53	22	3.5	1.5	.40
11	26	26	41	38E	36E	45E	56	53	22	2.8	.84	.60
12	25	26	41	38E	37E	50E	58	51	21	2.8	.67	.71
13	26	26	40E	36E	35E	54E	58	50	20	2.6	.59	2.1
14	24	27	36E	34E	36E	57	58	49	19	2.5	.52	1.2
15	24	26	38E	33E	35E	58	56	47	19	2.3	.43	.64
16	24	27	40E	34E	36E	57	53	44	18	2.1	.35	.76
17	24	28	38E	33E	37E	61	48	41	19	2.2	.25	.61
18	25	28	38E	32E	38E	65	47	40	19	1.8	.29	.65
19	24	27	36E	33E	38E	71	42	39	18	1.6	.33	.67
20	24	27	35E	35E	39E	74	39	37	17	1.5	.27	.76
21	24	28	36E	34E	38E	66E	44	35	17	1.1	.35	.53
22	24	29	37E	37E	37E	64E	47	35	16	.98	.39	.73
23	25	30	36E	39	36E	62E	47	33	15	.85	.35	.64
24	24	40	37E	39	38E	64E	42	30	14	.80	1.3	.73
25	23	37	36E	39	37E	66E	38	31	12	.84	.63	.60
26	23	39	33E	39	38E	72	38	31	12	.73	.91	.62
27	24	35E	34E	39	39E	76	46	32	11	.80	.50	.79
28	25	32E	36E	36	38E	80	55	32	10	.61	.49	.71
29	24	29E	35E	32E	-----	81	66	33	9.0	.69	.49	.85
30	24	30E	34E	29E	-----	78	74	32	8.8	1.0	.46	1.2
31	26	-----	33E	30E	-----	74	-----	29	-----	.79	.52	-----
TOTAL	751	851	1,141	1,113	1,038	1,779	1,607	1,582	564.8	85.59	19.89	20.10
MEAN	24.2	28.4	36.8	35.9	37.1	57.4	53.6	51.0	18.8	2.76	.64	.67
MAX	30	40	41	42	40	81	74	102	28	7.9	1.9	2.1
MIN	22	24	33	29	34	37	38	29	8.8	.61	.25	.26
AC-FT	1,490	1,690	2,260	2,210	2,060	3,530	3,190	3,140	1,120	170	39	40
CAL YEAR 2001 TOTAL		41,675.00	MEAN	114	MAX	2,130	MIN	11	AC-FT	82,660		
WTR YEAR 2002 TOTAL		10,552.38	MEAN	28.9	MAX	102	MIN	.25	AC-FT	20,930		

E indicates estimated discharge.

# PLATTE RIVER BASIN ( ELKHORN RIVER )

## SOUTH FORK ELKHORN RIVER near Ewing, 06798000 - 2002

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 estimated at 300 cubic feet per second November 25, gage height 2.48 feet; maximum gage height 2.56 feet January 5 due to backwater from ice; minimum daily discharge 17 cubic feet per second July 21.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	53	38E	30E	48E	33E	62E	112E	32E	28	21	43
2	38	53	40E	40E	54E	32E	60E	107	31E	27	22	40
3	41	49	45E	50E	50E	35E	58E	117	30E	31	22	37
4	44	48	48E	60E	54E	40E	56E	123	30E	29	39	36
5	45	47	54E	80E	60E	45E	54E	102	29E	26	88	33
6	46	46	61E	70E	66E	44E	54E	70E	29E	25	42	30
7	43	48	63	60E	68E	42E	54E	62E	29E	25	34	29
8	42	52E	59	58E	80E	40E	52E	56E	27E	22	28	30
9	48	54E	59	54E	74E	38E	52E	50E	34E	24	26	36
10	55	56E	55	52E	70E	36E	52	46E	35E	27	35	46
11	52	58E	53	52	74E	40E	59	52E	34E	33	32	42
12	47	58E	50	49	80E	60E	54	48E	33E	38	25	44
13	41	60E	56	49	76E	68	51	46E	32E	35	29	78
14	53	60E	54	50	82E	70	45	44E	31E	33	29	55
15	53	62E	51	48E	86E	84	45	42E	31E	32	26	42
16	59	62E	49	45E	82E	79	44	42E	30E	29	30	36
17	59	62E	43	42E	76E	82	45	41E	30E	27	26	33
18	54	60E	38	38E	70E	87	43	40E	29E	25	29	29
19	49	58E	38	35E	64E	86	46	39E	34E	22	30	30
20	47	60E	40	39E	60E	77	49	38E	40E	19	28	29
21	47	72E	46	45E	56E	72E	67	37E	39E	17	30	28
22	51	78E	41	50E	51	68E	62	40E	38E	21	28	29
23	53	94E	38E	45E	46	64E	57	42E	37E	22	29	27
24	53	200E	30E	49E	43	60E	48	40E	36E	24	88	26
25	56	250E	29E	60E	40E	72E	55	36E	36	34	55	24
26	54	200E	28E	70E	35E	68E	57	36E	35	29	58	25
27	58	76E	27E	60E	39E	64E	86	37E	32	22	62	26
28	55	45E	26E	50E	35E	60E	95	37E	32	19	57	25
29	53	30E	25E	45E	-----	66E	105	35E	29	18	50	27
30	52	35E	24E	40E	-----	70E	122	34E	29	32	47	23
31	51	-----	28E	45E	-----	64E	-----	33E	-----	40	45	-----
TOTAL	1,535	2,186	1,336	1,560	1,719	1,846	1,789	1,684	973	835	1,190	1,038
MEAN	49.5	72.9	43.1	50.3	61.4	59.5	59.6	54.3	32.4	26.9	38.4	34.6
MAX	59	250	63	80	86	87	122	123	40	40	88	78
MIN	36	30	24	30	35	32	43	33	27	17	21	23
AC-FT	3,040	4,340	2,650	3,090	3,410	3,660	3,550	3,340	1,930	1,660	2,360	2,060
CAL YEAR 2001	TOTAL	30,970	MEAN	84.8	MAX	1,610	MIN	24	AC-FT	61,430		
WTR YEAR 2002	TOTAL	17,691	MEAN	48.5	MAX	250	MIN	17	AC-FT	35,090		

E indicates estimated discharge.



**PLATTE RIVER BASIN  
( ELKHORN RIVER )**

**ELKHORN RIVER at Neligh, 06798500 - 2002**

LOCATION.--NWL/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. 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. Records are good, except estimated records are poor.

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 498 cubic feet per second March 16, gage height 3.44 feet; maximum gage 3.52 feet December 27 due to backwater from ice; minimum daily discharge 37 cubic feet per second July 22.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	172	200E	125E	180E	200E	381	427	185	92	70	73
2	148	172	250E	140E	220E	170E	386	445	175	89	54	70
3	149	172	299	200E	195E	200E	355	465	175	94	49	67
4	153	175	311	250E	205E	220E	342	471	182	89	75	63
5	153	171	344	300E	250E	260E	325	453	183	82	100	62
6	153	172	373	250E	288	230E	314	432	162	77	104	59
7	153	176	412	260E	292	235E	311	396	155	73	80	55
8	152	179	409	270E	304	230E	305	371	198	68	72	51
9	160	180	372	270E	311	230E	283	342	196	65	69	56
10	173	182	369	280E	240E	250E	272	320	198	64	73	69
11	173	183	345	290E	222E	270E	286	354	185	67	73	73
12	168	183	329	305	310	307	288	390	174	72	76	68
13	181	182	313	313	297	407	283	371	161	73	73	101
14	183	181	306	327	323	453	272	356	153	69	67	124
15	176	187	301	300E	321	414	267	324	148	63	60	108
16	171	186	302	220E	312	432	262	300	147	57	60	99
17	168	186	300	240E	318	446	253	274	142	52	62	90
18	166	189	300	200E	314	461	234	253	138	49	60	85
19	163	183	269	210E	315	471	238	245	142	47	60	84
20	157	185	234	250E	313	463	235	237	198	43	58	81
21	153	198	244	270E	320	438	260	225	170	40	58	81
22	158	202	253	279	329	350E	269	219	142	37	60	80
23	176	219	150E	282	312	370E	261	231	130	38	60	81
24	180	323	140E	268	304	482	251	218	120	39	72	78
25	171	337	130E	274	260E	442	230	214	117	41	91	77
26	166	327	130E	290	240E	410	226	214	133	50	92	82
27	165	200E	160E	250E	220E	400	287	213	126	49	95	86
28	165	170E	150E	200E	225E	398	417	223	115	44	94	89
29	174	150E	140E	150E	-----	422	418	213	107	39	95	87
30	171	160E	130E	155E	-----	425	430	198	97	39	85	84
31	171	-----	120E	160E	-----	407	-----	193	-----	79	77	-----
TOTAL	5,102	5,882	8,085	7,578	7,740	10,893	8,941	9,587	4,654	1,880	2,274	2,363
MEAN	165	196	261	244	276	351	298	309	155	60.6	73.4	78.8
MAX	183	337	412	327	329	482	430	471	198	94	104	124
MIN	148	150	120	125	180	170	226	193	97	37	49	51
AC-FT	10,120	11,670	16,040	15,030	15,350	21,610	17,730	19,020	9,230	3,730	4,510	4,690
CAL YEAR 2001 TOTAL		160,996	MEAN	441	MAX	7,010	MIN	104	AC-FT	319,300		
WTR YEAR 2002 TOTAL		74,979	MEAN	205	MAX	482	MIN	37	AC-FT	148,700		

E indicates estimated discharge.

# PLATTE RIVER BASIN ( ELKHORN RIVER )

**WILLOW CREEK near Foster, 06799080 - 2002**

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 107 cubic feet per second November 26, gage height 5.91 feet; minimum daily discharge 2.4 cubic feet per second August 2.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	11	26 E	9.8E	11E	11E	22	44	12	7.2	2.7	7.2
2	9.2	10	30 E	9.6E	12E	10E	21	40	11	7.2	2.4	7.0
3	8.9	10	35	10 E	13E	15E	21	37	11	7.3	2.6	6.5
4	9.2	10	35	15 E	11E	20E	20	31	13	7.0	6.6	6.4
5	9.6	11	45	20 E	14E	25E	20	26	12	6.7	20	6.4
6	9.3	10	60	25 E	15E	27E	20	24	11	6.5	12	6.0
7	9.3	10	76	30 E	17E	20E	20	22	12	6.2	8.1	5.4
8	9.4	10	80	25 E	16E	15E	20	21	13	6.1	7.3	4.8
9	9.5	10	63	23 E	12E	17E	19	20	12	6.1	7.2	5.4
10	9.7	10	52	22 E	13E	19E	19	19	11	6.0	7.4	6.5
11	9.4	10	45	19 E	14E	21E	21	30	12	5.2	7.1	6.2
12	9.6	11	41	17 E	15E	23E	39	38	11	5.5	7.0	6.2
13	10	11	36	17 E	16E	24E	40	45	11	5.6	7.5	11
14	9.8	11	32	15 E	17E	25E	37	41	10	5.0	6.8	9.2
15	9.5	11	30	13 E	18	26	32	32	9.5	5.4	6.3	7.8
16	9.5	11	30	10 E	18	26	27	25	9.4	5.1	6.2	7.3
17	9.9	11	29	11 E	20	27	23	22	10	5.1	6.9	7.0
18	9.7	11	27	11 E	23	28	20	19	9.8	4.4	6.4	7.0
19	9.8	10	29	13 E	25	29	19	18	9.7	4.2	6.1	6.8
20	9.8	11	24	15 E	25	29	18	16	12	5.0	5.9	6.9
21	9.9	11	22	17 E	24	38	19	16	11	4.9	5.4	6.6
22	10	11	21	14 E	23	44	19	15	10	5.0	6.0	6.8
23	10	13	15 E	11 E	23	25	19	15	9.9	4.9	6.6	6.9
24	10	35	10 E	11 E	23	24	18	14	9.4	5.1	6.6	6.7
25	9.9	60	9.8E	15 E	20E	27	17	14	9.0	4.7	6.7	6.6
26	9.9	92	10 E	13 E	15E	23	16	14	8.3	4.1	6.5	6.9
27	10	50E	10 E	11 E	10E	23	21	14	7.4	3.9	6.7	7.5
28	10	30E	9.8E	10 E	13E	23	31	14	7.3	3.6	6.6	7.4
29	10	20E	9.8E	9.8E	-----	23	55	13	7.0	4.4	9.1	7.6
30	11	24E	9.9E	10 E	-----	23	58	12	7.1	4.3	8.7	7.4
31	11	-----	9.6E	9.8E	-----	22	-----	12	-----	4.1	8.0	-----
TOTAL	302.2	556	961.9	462.0	476	732	751	723	308.8	165.8	219.4	207.4
MEAN	9.75	18.5	31.0	14.9	17.0	23.6	25.0	23.3	10.3	5.35	7.08	6.91
MAX	11	92	80	30	25	44	58	45	13	7.3	20	11
MIN	8.9	10	9.6	9.6	10	10	16	12	7.0	3.6	2.4	4.8
AC-FT	599	1,100	1,910	916	944	1,450	1,490	1,430	613	329	435	411
CAL YEAR 2001	TOTAL	8,653.60	MEAN	23.7	MAX	153	MIN	8.6	AC-FT	17,160		
WTR YEAR 2002	TOTAL	5,865.50	MEAN	16.1	MAX	92	MIN	2.4	AC-FT	11,630		

E indicates estimated discharge.

**PLATTE RIVER BASIN  
( ELKHORN RIVER )**

**WILLOW CREEK RESERVOIR from Willow Creek, 00410300 - 2002**

LOCATION.--NWL/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 CONTENTS IN ACRE-FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,990	6,910	7,520	7,200	7,110	7,180	7,180	7,350	7,030E	6,730	5,270	4,890
2	6,980	6,910	7,510	7,120	7,090	7,170	7,160	7,420	7,030E	6,700	5,220	4,860
3	6,930	6,910	7,470	7,120	7,110	7,170	7,160	7,410	7,020E	6,680	5,180	4,850
4	6,920	6,920	7,470	7,130	7,060	7,150	7,150	7,380	7,020E	6,660	5,250	4,840
5	6,920	6,940	7,490	7,130	7,080	7,140	7,150	7,370	7,000	6,620	5,320	4,820
6	6,920	6,940	7,520	7,110	7,080	7,140	7,150	7,340	6,990	6,580	5,310	4,810
7	6,920	6,940	7,560	7,100	7,110	7,140	7,150	7,320	6,990	6,540	5,280	4,780
8	6,920	6,940	7,640	7,100	7,100	7,130	7,150	7,280	7,000	6,490	5,250	4,760
9	6,980	6,930	7,680	7,110	7,090	7,140	7,150	7,240	6,990	6,460	5,220	4,740
10	6,940	6,910	7,640	7,100	7,100	7,140	7,150	7,220	7,000	6,400	5,210	4,730
11	6,940	6,930	7,620	7,100	7,100	7,140	7,150	7,290	7,020	6,320	5,210	4,720
12	6,940	6,950	7,570	7,110	7,100	7,170	7,190	7,350	7,000	6,290	5,190	4,700
13	6,960	6,950	7,570	7,130	7,110	7,170	7,240	7,380	6,980	6,240	5,160	4,720
14	6,930	6,960	7,510	7,130	7,110	7,170	7,290	7,390	6,980	6,200	5,130	4,720
15	6,900	6,960	7,530	7,110	7,150	7,190	7,280	7,390	6,960	6,150	5,100	4,720
16	6,900	6,970	7,440	7,110	7,120	7,220	7,280	7,350	6,940	6,100	5,100	4,710
17	6,920	6,980	7,430	7,120	7,160	7,210	7,250	7,310	6,940	6,060	5,060	4,700
18	6,900	6,960	7,410	7,120	7,170	7,240	7,190	7,280	6,930	6,000	5,030	4,700
19	6,900	6,960	7,390	7,120	7,170	7,240	7,180	7,250	6,960	5,950	5,020	4,690
20	6,910	6,950	7,340	7,120	7,190	7,280	7,160	7,210	6,980	5,900	5,000	4,680
21	6,910	6,960	7,340	7,130	7,190	7,240	7,170	7,180	6,980	5,820	4,990	4,670
22	6,920	6,960	7,350	7,120	7,220	7,250	7,190	7,170	6,970	5,760	4,960	4,640
23	6,920	6,990	7,310	7,110	7,240	7,240	7,190	7,150E	6,950	5,720	4,950	4,630
24	6,910	7,140	7,300	7,110	7,200	7,220	7,140	7,110E	6,940	5,660	4,920	4,630
25	6,900	7,230	7,180	7,120	7,180	7,200	7,130	7,110E	6,910	5,640	4,900	4,630
26	6,890	7,420	7,180	7,110	7,170	7,200	7,120	7,100E	6,870	5,590	4,890	4,610
27	6,900	7,440	7,180	7,100	7,160	7,220	7,150	7,080E	6,870	5,540	4,870	4,610
28	6,910	7,480	7,180	7,100	7,170	7,210	7,210	7,060E	6,840	5,490	4,860	4,610
29	6,890	7,500	7,190	7,100	-----	7,200	7,290	7,040E	6,810	5,440	4,950	4,620
30	6,920	7,510	7,190	7,100	-----	7,180	7,370	7,040E	6,780	5,390	4,930	4,620
31	6,920	-----	7,190	7,100	-----	7,170	-----	7,040E	-----	5,340	4,920	-----
MAX	6,990	7,510	7,680	7,200	7,240	7,280	7,370	7,420	7,030	6,730	5,320	4,890
MIN	6,890	6,910	7,180	7,100	7,060	7,130	7,120	7,040	6,780	5,340	4,860	4,610
CHANGE	-35	580	-314	-96	76	-6.4	203	-330	-263	-1,430	-428	-295
CAL YEAR 2001			MEAN	7,000	MAX	8,080	MIN	5,820				
WTR YEAR 2002			MEAN	6,673	MAX	7,680	MIN	4,610				

E indicates estimated storage.

**PLATTE RIVER BASIN  
( ELKHORN RIVER )**

**WILLOW CREEK near Pierce, 00232500 - 2002**

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 2.0 cubic feet per second, August 29, 31 and September 1, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharge 81 cubic feet per second December 9, gage height 4.28 feet; minimum daily  
discharge 1.0 cubic feet per second, August 2-3.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	6.5	63	23	19	24	28	39	14	4.1	1.5	2.8
2	9.5	6.7	63	21	18	24	29	44	13	3.8	1.0	3.0
3	8.2	6.8	60	20	19	24	26	45	13	3.7	1.0	3.1
4	8.0	7.1	59	20	19	24	26	43	12	3.7	1.3	3.3
5	7.7	7.9	60	20	19	25	25	42	11	3.7	1.3	3.4
6	7.3	7.9	62	20	19	25	26	40	11	3.9	1.4	3.2
7	7.3	8.1	66	20	19	25	26	37	11	3.5	1.7	3.0
8	7.0	7.7	73	20	19	25	25	37	11	3.5	2.1	2.8
9	7.6	7.9	79	20	20	25	25	34	12	3.4	2.3	2.8
10	9.2	7.0	78	20	20	25	26	30	12	3.1	2.5	3.0
11	8.1	7.0	76	20	20	27	26	34	14	3.1	2.9	3.3
12	7.6	7.5	72	20	21	27	28	39	14	2.8	2.9	3.4
13	8.0	8.2	68	20	21	27	31	41	13	2.6	2.9	3.5
14	8.7	8.7	64	20	21	27	34	43	12	2.8	3.1	3.5
15	7.4	8.8	59	20	21	27	37	44	11	2.6	3.2	3.5
16	6.5	8.9	54	19	21	27	37	41	10	2.5	3.2	3.5
17	6.8	9.5	50	19	21	28	35	38	9.9	2.6	3.0	3.7
18	6.6	9.8	47	19	22	28	35	36	9.5	2.6	2.9	3.7
19	6.7	8.5	44	19	22	28	30	33	9.0	2.4	2.7	3.9
20	6.8	9.0	42	19	22	31	27	30	9.5	2.1	2.4	4.0
21	6.7	8.8	39	19	22	31	26	28	9.8	2.0	2.4	4.0
22	6.7	8.8	40	19	22	30	26	26	9.8	2.0	2.4	4.2
23	6.9	9.6	38	19	22	30	27	23	9.1	2.0	1.7	4.2
24	7.4	19	36	19	23	29	26	20	8.3	2.0	1.2	4.2
25	7.5	33	35	19	23	29	22	20	7.6	2.1	1.2	4.4
26	5.4	50	32	19	23	29	21	19	6.8	1.5	1.6	4.3
27	5.8	68	31	19	24	29	23	18	5.3	1.5	2.0	4.2
28	6.0	66	31	19	24	29	26	18	5.0	1.4	1.8	4.2
29	5.4	65	29	19	-----	29	29	17	5.2	1.4	2.2	4.2
30	5.7	64	27	19	-----	29	34	16	4.5	1.5	2.4	4.4
31	6.3	-----	25	19	-----	29	-----	15	-----	1.7	2.7	-----
TOTAL	224.3	551.7	1,602	608	586	846	842	990	303.3	81.6	66.9	108.7
MEAN	7.24	18.4	51.7	19.6	20.9	27.3	28.1	31.9	10.1	2.63	2.16	3.62
MAX	9.5	68	79	23	24	31	37	45	14	4.1	3.2	4.4
MIN	5.4	6.5	25	19	18	24	21	15	4.5	1.4	1.0	2.8
AC-FT	445	1,090	3,180	1,210	1,160	1,680	1,670	1,960	602	162	133	216
CAL YEAR 2001	TOTAL	9,060.20	MEAN	24.8	MAX	141	MIN	2.8	AC-FT	17,970		
WTR YEAR 2002	TOTAL	6,810.50	MEAN	18.7	MAX	79	MIN	1.0	AC-FT	13,510		

# PLATTE RIVER BASIN ( ELKHORN RIVER )

## UNION CREEK at Madison, 06799230 - 2002

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, except estimated records are poor.

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 1,990 cubic feet per second October 10, gage height 17.77 feet; minimum daily discharge 3.5 cubic feet per second July 25.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20E	23	31	23	23	27	35	29	21E	19 E	19 E	8.7
2	20E	23	31	23	24	28	33	30	20	18 E	18 E	10
3	20	22	32	23	24	28	31	29	20	17 E	17 E	9.3
4	21	23	32	23	24	30	30	27	25	16 E	14	6.8
5	21	23	33	24	23	33	29	26	24	15 E	38	7.2
6	20	23	34	25	23	35	27	25	24	14 E	31	7.8
7	21	23	32	25	24	37	31	25	25	13 E	15	7.0
8	21	22	29	25	25	37	29	26	22	11	11	6.5
9	91	23	29	27	26	33	28	24	22	9.8	12	7.4
10	1,190	23	29	27	24	32	27	22	22	9.8	10	10
11	679	22	29	27	26	33	27	49	433	8.6E	9.8	9.1
12	43	24	27	26	26	43	26	76	1,220	8.0E	9.8	8.7
13	35	24	27	27	29	80	27	40	136	7.8E	7.7	9.1
14	33	23	27	27	32	99	27	33	42	7.6E	6.0E	10
15	30	23	29	25	32	62	27	30	31	7.4E	5.0E	10
16	27	22	28	25	33	50	26	28	28	7.2E	4.0E	9.7
17	26	21	28	24	35	50	25	27	28	7.0E	5.4	10
18	25	21	28	23	37	47	24	27	28	6.8E	7.0	9.3
19	26	21	26	23	38	48	23	27	27	6.6E	6.9	9.6
20	25	21	25	24	36	46	24	26	28	6.4E	7.8	9.6
21	25	20	27	23	34	40	27	24	28	6.2E	7.4	9.0
22	25	21	26	23	33	36	27	23	28	6.0E	18	9.6
23	25	31	25	23	32	38	26	22	28	5.0E	11	9.4
24	25	141	24	22	34	38	24	23	26	4.5E	11	9.8
25	24	238	25	23	32	36	22	23	25E	3.5E	15	9.7
26	23	70	24	24	28	34	23	23	24E	20 E	12	9.9
27	24	55	24	26	28	33	32	24	23E	25 E	8.5	9.9
28	24	37	25	26	29	34	37	25	23E	23 E	8.2	9.4
29	26	33	24	26	-----	34	34	24E	22E	22 E	8.4	9.2
30	22	33	24	25	-----	34	30	22E	20E	21 E	6.5	9.4
31	24	-----	24	24	-----	35	-----	22E	-----	20 E	8.2	-----
TOTAL	2,661	1,129	858	761	814	1,270	838	881	2,473	372.2	368.6	271.1
MEAN	85.8	37.6	27.7	24.5	29.1	41.0	27.9	28.4	82.4	12.0	11.9	9.04
MAX	1,190	238	34	27	38	99	37	76	1,220	25	38	10
MIN	20	20	24	22	23	27	22	22	20	3.5	4.0	6.5
AC-FT	5,280	2,240	1,700	1,510	1,610	2,520	1,660	1,750	4,910	738	731	538
CAL YEAR 2001	TOTAL	26,267.30	MEAN	72.0	MAX	2,100	MIN	9.2	AC-FT	52,100		
WTR YEAR 2002	TOTAL	12,696.90	MEAN	34.8	MAX	1,220	MIN	3.5	AC-FT	25,180		

E indicates estimated discharge.

# PLATTE RIVER BASIN ( ELKHORN RIVER )

**PEBBLE CREEK at Scribner, 06799385 - 2002**

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 3,900 cubic feet per second June 11, gage height 15.62 feet; minimum daily discharge 10 cubic feet per second September 10.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	34	60E	22E	40E	30E	43	50	37	31	13	13
2	26	33	50E	24E	40E	30E	43	62	36	29	13	12
3	25	33	48E	30E	38E	35E	39	53	36	30	13	11
4	26	34	47E	35E	38E	45E	40	47	44	31	18	11
5	26	34	46E	40E	40E	55E	40	45	43	32	26	11
6	26	35	45E	45E	39E	70E	40	52	33	32	22	11
7	27	35	44E	35E	38E	65E	40	45	33	40	16	11
8	27	36	43E	39E	38E	60E	40	42	33	30	15	11
9	26	36	43E	43E	37E	55E	38	41	33	31	15	11
10	48	37	42E	40E	30E	50E	37	39	36	34	15	10
11	40	36	42E	38E	38E	74	39	224	1,870	35	15	11
12	29	35	42E	35E	40E	78	40	207	694	37	14	12
13	27	32	41	30E	43E	136	37	82	810	38	13	13
14	27	30	41	25E	45	159	36	70	114	39	13	14
15	26	30	42	23E	52	80	36	62	83	34	12	13
16	26	30	40	21E	56	67	35	58	73	21	11	14
17	27	30	39	20E	59	65	53	52	70	19	12	15
18	26	29E	40	21E	61	66	42	50	64	19	12	16
19	26	29E	37E	25E	63	91	37	48	60	18	11	16
20	27	30E	33E	23E	58	71	37	47	55	17	11	16
21	27	29E	30E	28E	53	57	43	45	54	17	11	17
22	27	30E	25E	31E	51	72	41	45	52	17	12	19
23	29	31E	20E	33E	50	57	39	63	48	17	12	19
24	30	80E	21E	28E	35E	54	36	46	45	16	15	17
25	27	125E	22E	37	30E	46	36	53	42	17	12	15
26	26	250E	23E	40	33E	47	36	47	41	16	12	13
27	33	130E	22E	38	25E	48	51	43	38	16	12	14
28	36	100E	22E	35E	67E	50	110	45	35	15	12	14
29	35	86E	22E	30E	-----	48	60	46	34	14	30	14
30	33	70E	21E	33E	-----	46	52	42	33	13	29	13
31	33	-----	20E	25E	-----	43	-----	39	-----	13	16	-----
TOTAL	900	1,589	1,113	972	1,237	1,950	1,296	1,890	4,679	768	463	407
MEAN	29.0	53.0	35.9	31.4	44.2	62.9	43.2	61.0	156	24.8	14.9	13.6
MAX	48	250	60	45	67	159	110	224	1,870	40	30	19
MIN	25	29	20	20	25	30	35	39	33	13	11	10
AC-FT	1,790	3,150	2,210	1,930	2,450	3,870	2,570	3,750	9,280	1,520	918	807
CAL YEAR 2001	TOTAL	23,857	MEAN	65.4	MAX	1,120	MIN	15	AC-FT	47,320		
WTR YEAR 2002	TOTAL	17,264	MEAN	47.3	MAX	1,870	MIN	10	AC-FT	34,240		

E indicates estimated discharge.

**PLATTE RIVER BASIN  
( ELKHORN RIVER )**

**LOGAN CREEK at Pender, 06799450 - 2002**

LOCATION.--NWL/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 2,250 cubic feet per second June 11, gage height 8.40 feet; minimum daily discharge 48 cubic feet per second August 3.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	141	225	98E	106E	106E	164	265	175	129	51	96
2	124	139	220	110E	120E	100E	165	271	173	123	50	92
3	124	134	221	120E	114E	100E	160	259	176	122	48	91
4	129	133	227	130E	110E	130E	160	227	189	132	67	90
5	133	133	231	145E	100E	180E	160	212	198	122	169	90
6	134	132	242	160E	110E	200E	161	211	186	115	232	90
7	134	132	223	150E	150E	180E	162	206	180	110	115	88
8	132	128	214	170E	145E	160E	165	203	208	106	90	86
9	138	129	209	190E	140E	145E	163	202	208	104	85	84
10	164	131	209	210E	135E	135E	159	191	198	105	89	86
11	148	131	209	190E	140E	145E	167	276	1,190	104	90	88
12	136	130	207	180E	155E	150E	185	578	772	99	103	86
13	137	128	206	170E	170E	160E	179	345	301	98	98	92
14	137	127	205	165E	190E	170E	171	283	246	93	87	95
15	134	127	206	160E	194	180E	167	259	227	89	79	94
16	134	128	202	150E	202	195	164	244	216	85	94	89
17	135	128	201	155E	212	200	180	230	206	80	98	87
18	135	131	199	155E	232	197	172	221	199	76	97	86
19	135	133	198	160E	249	193	157	217	189	73	89	84
20	135	138	194	170E	227	182	149	212	205	71	87	86
21	133	141	196	180	209	167	159	208	223	69	88	84
22	134	143	200	181	199	160	167	208	183	91	89	85
23	135	150	178	179	199	178	176	207	172	88	92	84
24	134	296	110E	174	206	176	171	198	163	75	98	84
25	133	903	100E	186	176	160	155	196	158	84	91	83
26	132	432	100E	185	150E	162	150	196	155	77	90	83
27	134	410	110E	185	125E	167	172	197	151	71	88	84
28	135	276	102E	170E	110E	173	292	201	144	71	87	80
29	135	240	100E	160E	-----	174	278	195	139	68	95	80
30	133	233	96E	110E	-----	169	240	189	134	63	104	79
31	139	-----	96E	98E	-----	164	-----	181	-----	57	112	-----
TOTAL	4,178	5,857	5,636	4,946	4,575	5,058	5,270	7,288	7,264	2,850	2,952	2,606
MEAN	135	195	182	160	163	163	176	235	242	91.9	95.2	86.9
MAX	164	903	242	210	249	200	292	578	1,190	132	232	96
MIN	123	127	96	98	100	100	149	181	134	57	48	79
AC-FT	8,290	11,620	11,180	9,810	9,070	10,030	10,450	14,460	14,410	5,650	5,860	5,170
CAL YEAR 2001	TOTAL	88,183	MEAN	242	MAX	3,820	MIN	96	AC-FT	174,900		
WTR YEAR 2002	TOTAL	58,480	MEAN	160	MAX	1,190	MIN	48	AC-FT	116,000		

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

## HAIGLER CANAL from Republican River, 00061000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	0	0	0	0	0	0	24	22	14	13	33
2	20	0	0	0	0	0	0	25	20	14	15	28
3	20	0	0	0	0	0	0	26	20	15	21	24
4	20	0	0	0	0	0	0	30	30	18	23	24
5	21	0	0	0	0	0	0	25	30	18	29	24
6	17	0	0	0	0	0	0	25	28	23	16	21
7	6.0	0	0	0	0	0	0	25	26	23	13	21
8	2.4	0	0	0	0	0	0	25	20	22	13	19
9	1.3	0	0	0	0	0	0	24	19	20	15	20
10	0	0	0	0	0	0	0	23	18	18	16	23
11	0	0	0	0	0	0	.99	23	17	18	18	23
12	0	0	0	0	0	0	14	25	16	18	19	23
13	0	0	0	0	0	0	23	26	16	18	18	28
14	0	0	0	0	0	0	23	25	16	18	20	30
15	0	0	0	0	0	0	21	25	18	15	20	29
16	0	0	0	0	0	0	19	29	18	13	20	22
17	0	0	0	0	0	0	18	33	16	13	19	17
18	0	0	0	0	0	0	21	29	17	13	19	16
19	0	0	0	0	0	0	28	24	17	12	20	16
20	0	0	0	0	0	0	29	23	18	10	21	16
21	0	0	0	0	0	0	27	21	22	9.9	21	17
22	0	0	0	0	0	0	26	19	20	12	21	17
23	0	0	0	0	0	0	31	25	19	13	21	18
24	0	0	0	0	0	0	31	23	19	13	23	19
25	0	0	0	0	0	0	28	24	21	13	25	19
26	0	0	0	0	0	0	26	20	28	14	22	19
27	0	0	0	0	0	0	30	15	27	14	22	19
28	0	0	0	0	0	0	30	14	21	14	22	22
29	0	0	0	0	0	0	38	21	17	15	23	22
30	0	0	0	0	0	0	37	23	16	16	28	22
31	0	0	0	0	-----	0	-----	23	-----	13	31	-----
TOTAL	128.7	0	0	0	0	0	500.99	742	612	479.9	627	651
MEAN	4.15	0	0	0	0	0	16.7	23.9	20.4	15.5	20.2	21.7
MAX	21	0	0	0	0	0	38	33	30	23	31	33
MIN	0	0	0	0	0	0	0	14	16	9.9	13	16
AC-FT	255	0	0	0	0	0	994	1,470	1,210	952	1,240	1,290
CAL YEAR 2001	MAX	36	MIN	0	AC-FT	6,720						
WTR YEAR 2002	MAX	38	MIN	0	AC-FT	7,420						



# REPUBLICAN RIVER BASIN

**HAIGLER CANAL from Republican River, 00061400 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	0	0	0	0	0	0	15	19	14	7.4	16
2	18	0	0	0	0	0	0	17	18	14	8.9	16
3	17	0	0	0	0	0	0	18	17	14	13	12
4	17	0	0	0	0	0	0	19	23	12	15	10
5	18	0	0	0	0	0	0	17	24	12	17	12
6	17	0	0	0	0	0	0	18	20	14	11	10
7	13	0	0	0	0	0	0	16	18	15	10	13
8	2.4	0	0	0	0	0	0	16	15	15	9.7	9.5
9	0	0	0	0	0	0	0	16	14	13	10	11
10	0	0	0	0	0	0	0	16	13	12	11	13
11	0	0	0	0	0	0	0	16	11	13	13	14
12	0	0	0	0	0	0	13	16	9.7	16	13	12
13	0	0	0	0	0	0	23	17	10	15	13	16
14	0	0	0	0	0	0	22	17	10	13	13	22
15	0	0	0	0	0	0	19	14	12	11	17	24
16	0	0	0	0	0	0	18	19	10	8.0	12	22
17	0	0	0	0	0	0	16	22	10	8.8	14	13
18	0	0	0	0	0	0	17	20	11	9.0	13	13
19	0	0	0	0	0	0	21	16	9.6	7.3	13	12
20	0	0	0	0	0	0	21	15	11	6.5	14	12
21	0	0	0	0	0	0	20	16	13	7.9	15	11
22	0	0	0	0	0	0	17	11	12	7.8	14	12
23	0	0	0	0	0	0	21	13	12	7.9	14	12
24	0	0	0	0	0	0	25	15	12	9.1	17	14
25	0	0	0	0	0	0	22	19	14	8.7	16	14
26	0	0	0	0	0	0	17	20	17	9.1	15	14
27	0	0	0	0	0	0	20	13	18	8.7	14	14
28	0	0	0	0	0	0	21	13	14	8.2	10	15
29	0	0	0	0	-----	0	19	16	11	9.1	8.3	15
30	0	0	0	0	-----	0	16	20	12	11	11	14
31	0	-----	0	0	-----	0	-----	20	-----	8.4	12	-----
TOTAL	122.4	0	0	0	0	0	368	516	420.3	338.5	394.3	417.5
MEAN	3.95	0	0	0	0	0	12.3	16.6	14.0	10.9	12.7	13.9
MAX	20	0	0	0	0	0	25	22	24	16	17	24
MIN	0	0	0	0	0	0	0	11	9.6	6.5	7.4	9.5
AC-FT	243	0	0	0	0	0	730	1,020	834	671	782	828
CAL YEAR 2001	MAX	29	MIN	0	AC-FT	4,930						
WTR YEAR 2002	MAX	25	MIN	0	AC-FT	5,110						

# REPUBLICAN RIVER BASIN

## HAIGLER CANAL SPILLBACK to Arikaree River, 00061500 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6						0	0	0	0	0	0
2	3.2						0	0	0	0	0	0
3	3.3						0	.08	0	0	0	0
4	3.2						0	0	0	0	0	0
5	3.1						0	0	.09	0	0	0
6	6.0						0	0	0	0	0	.12
7	7.6						0	.15	0	0	0	.06
8	5.6						0	0	.04	0	0	0
9	2.0						0	0	0	0	0	0
10	.68						0	0	0	0	0	.07
11	0						0	.37	0	0	0	.05
12	0						0	.22	0	0	0	.13
13	0						0	.15	0	0	0	.81
14	0						0	0	0	0	0	.72
15	0						0	0	0	0	0	.52
16	0						.60	.41	0	0	0	.26
17	0						.35	0	0	0	0	.11
18	0						0	0	.23	0	0	.57
19	0						0	0	0	0	0	1.1
20	0						0	0	0	0	0	.89
21	0						0	0	0	0	0	1.0
22	0						0	0	0	0	0	1.1
23	0						0	0	0	0	0	1.4
24	0						.11	.91	0	0	0	1.1
25	0						0	2.0	0	0	0	1.6
26	0						0	.06	0	0	0	2.8
27	0						.33	0	0	0	0	2.4
28	0						1.9	0	0	0	0	3.8
29	0				-----		.05	0	0	0	0	4.1
30	0				-----		.06	0	0	0	0	4.4
31	0	-----			-----		-----	0	-----	0	0	-----
TOTAL	37.28						3.40	4.35	0.36	0	0	29.11
MEAN	1.20						.11	.14	.012	0	0	.97
MAX	7.6						1.9	2.0	.23	0	0	4.4
MIN	0						0	0	0	0	0	0
AC-FT	74						6.7	8.6	.7	0	0	58
CAL YEAR 2001	MAX	8.8	MIN	0	AC-FT	406						
WTR YEAR 2002	MAX	7.6	MIN	0	AC-FT	148						

# REPUBLICAN RIVER BASIN

**MEEKER-DRIFTWOOD CANAL from Republican River, 00087000 - 2002**

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

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	108		
2									0	171		
3									0	216		
4									0	222		
5									0	216		
6									0	211		
7									0	208		
8									0	197		
9									0	187		
10									0	193		
11									0	200		
12									0	194		
13									0	194		
14									0	193		
15									0	192		
16									0	181		
17									0	190		
18									0	207		
19									0	201		
20									0	196		
21									0	191		
22									0	190		
23									0	184		
24									63	76		
25									44	0		
26									25	0		
27									68	0		
28									70	0		
29					-----				98	0		
30					-----				102	0		
31		-----			-----		-----		-----	0		-----
TOTAL									470	4,518		
MEAN									15.7	151		
MAX									102	222		
MIN									0	0		
AC-FT									932	8,960		
CAL YEAR 2001	MAX	217	MIN	0	AC-FT	17,810						
WTR YEAR 2002	MAX	222	MIN	0	AC-FT	9,890						

# REPUBLICAN RIVER BASIN

## SWANSON LAKE near Trenton, 06829000 - 2002

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 CONTENTS IN ACRE-FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23,250	22,690	22,860	24,050	25,880	28,200	31,860	33,410	32,360	30,300	20,200	23,490
2	23,230	22,710	22,860	24,080	25,900	28,260	31,930	33,440	32,320	30,000	20,080	23,450
3	23,180	22,690	22,860	24,100	25,920	28,330	31,960	33,440	32,270	29,560	20,040	23,410
4	23,160	22,670	22,860	24,100	25,950	28,360	32,030	33,440	32,820	29,110	20,010	23,370
5	23,160	22,650	22,900	24,120	25,970	28,400	32,100	33,440	32,820	28,700	19,990	23,330
6	23,140	22,650	22,900	24,140	26,030	28,470	32,170	33,460	32,720	28,240	19,950	23,310
7	23,120	22,630	22,940	24,160	26,100	28,540	32,240	33,490	32,600	27,770	19,870	23,270
8	23,100	22,710	22,940	24,180	26,230	28,990	32,340	33,510	32,480	27,370	19,810	23,210
9	23,080	22,710	22,960	24,220	26,360	29,110	32,410	33,510	32,340	26,930	19,890	23,140
10	23,060	22,690	22,980	24,240	26,490	29,240	32,530	33,440	32,220	26,580	19,950	23,140
11	23,040	22,690	23,160	24,260	26,600	29,360	32,650	33,360	32,100	26,120	19,890	23,120
12	23,020	22,670	23,180	24,410	26,690	29,450	32,720	33,310	32,030	25,670	19,990	23,060
13	23,020	22,670	23,200	24,430	26,820	29,560	33,260	33,260	31,960	25,240	19,970	23,060
14	23,000	22,650	23,410	24,450	26,930	29,660	32,850	32,990	31,960	24,810	19,890	23,020
15	23,040	22,650	23,450	24,480	27,000	29,930	32,920	32,850	31,960	24,430	19,830	22,980
16	23,040	22,650	23,470	24,500	27,130	30,100	32,970	32,800	31,930	23,990	19,760	22,960
17	23,020	22,650	23,490	24,520	27,240	30,260	32,990	32,800	31,910	23,600	19,700	22,940
18	23,000	22,630	23,620	24,900	27,370	30,420	33,020	32,750	31,880	23,140	19,640	22,880
19	23,000	22,630	23,680	24,940	27,480	30,560	32,990	32,700	31,790	22,770	19,570	22,860
20	22,960	22,630	23,680	24,980	27,600	30,650	32,990	32,680	31,760	22,330	19,550	22,750
21	22,940	22,710	23,700	25,020	27,710	30,770	32,990	32,650	31,690	21,900	19,570	22,710
22	22,920	22,710	23,760	25,070	27,820	30,890	32,990	32,580	31,600	21,490	19,550	22,670
23	22,900	22,710	23,780	25,110	27,890	30,940	33,020	32,560	31,480	21,070	19,590	22,630
24	22,880	22,710	23,800	25,150	27,970	30,980	33,020	32,510	31,380	20,660	19,570	22,590
25	22,860	22,730	23,820	25,280	28,040	31,030	33,020	32,600	31,150	20,620	19,530	22,570
26	22,790	22,730	23,840	25,350	28,110	31,150	32,970	32,580	31,310	20,470	19,510	22,550
27	22,790	22,860	23,860	25,450	28,130	31,290	33,120	32,560	31,290	20,430	22,150	22,530
28	22,770	22,860	23,890	25,540	28,150	31,380	33,260	32,530	31,080	20,390	23,230	22,510
29	22,750	22,860	23,930	25,600	-----	31,550	33,340	32,480	30,840	20,370	23,560	22,490
30	22,730	22,860	23,970	25,710	-----	31,640	33,360	32,440	30,580	20,330	23,560	22,470
31	22,710	-----	24,010	25,820	-----	31,760	-----	32,410	-----	20,260	23,520	-----
MAX	23,250	22,860	24,010	25,820	28,150	31,760	33,360	33,510	32,820	30,300	23,560	23,490
MIN	22,710	22,630	22,860	24,050	25,880	28,200	31,860	32,410	30,580	20,260	19,510	22,470
CHANGE	-560	150	1,150	1,810	2,330	3,610	1,600	-950	-1,830	-10,320	3,260	-1,050
CAL YEAR 2001			MEAN	31,577	MAX	72,200	MIN	22,630				
WTR YEAR 2002			MEAN	26,316	MAX	33,510	MIN	19,510				

# REPUBLICAN RIVER BASIN

## REPUBLICAN RIVER near Trenton, 00126700 - 2002

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 2001 TO SEP 2002

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

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NO RELEASE OF WATER FROM SWANSON RESERVOIR MADE IN 2002 WATER YEAR.

# REPUBLICAN RIVER BASIN

**FRENCHMAN CREEK near Imperial, 06831500 - 2002**

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. Gage datum is approximately 3130 feet above National Geodetic Vertical Datum of 1929, 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 good.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 2,340 cubic feet per second March 22, 1960, gage height 8.43 ft.; minimum daily discharge 4.8 cubic feet per second March 12, 1977 during backwater from ice.

EXTREMES FOR CURRENT YEAR.--Peak discharge 20 cubic feet per second March 1, gage height 1.31 ft.; minimum daily discharge 2.8 cubic feet per second August 3.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	8.9	11	10	11	10	12	11	7.4	4.3	2.9	3.8
2	6.8	8.9	11	10	12	11	12	11	7.4	4.4	3.0	3.6
3	6.7	9.0	11	10	11	12	12	11	7.4	4.3	2.8	3.5
4	6.9	9.0	11	10	12	12	12	11	8.3	4.2	3.1	4.0
5	7.2	9.0	11	11	12	12	12	11	8.0	4.3	5.0	4.3
6	7.3	9.0	11	11	11	12	12	11	7.9	4.9	3.7	4.1
7	7.3	9.0	11	11	11	12	12	11	7.8	4.7	3.3	3.9
8	7.3	9.0	11	11	11	11	13	10	8.1	4.4	3.1	4.0
9	7.4	9.0	11	11	11	12	13	10	8.2	4.2	3.5	4.2
10	7.3	9.3	11	11	9.5	12	12	9.8	7.6	4.1	3.6	5.0
11	7.2	9.4	11	11	11	13	12	10	6.9	3.9	3.4	4.6
12	7.7	9.3	11	11	12	12	12	10	6.7	3.9	3.4	4.5
13	7.8	9.5	11	11	11	12	12	10	6.5	3.8	3.4	4.5
14	8.1	9.5	11	11	12	12	12	10	6.7	3.6	3.3	4.3
15	8.7	9.7	11	11	11	11	11	9.9	6.4	3.6	3.2	3.9
16	7.6	9.6	11	12	11	12	11	10	6.3	3.4	3.2	3.7
17	7.8	9.5	11	12	11	12	11	11	6.1	3.4	3.6	3.9
18	7.5	9.6	11	11	11	12	11	11	6.0	3.4	3.7	3.9
19	7.5	9.5	11	11	11	12	10	10	5.7	3.4	4.2	3.9
20	7.4	9.6	11	11	11	12	10	9.9	5.8	3.3	4.1	3.8
21	7.5	9.5	11	11	11	11	10	9.8	5.5	3.3	3.8	4.0
22	7.3	9.5	11	11	10	11	11	9.5	5.1	3.5	3.5	4.0
23	7.6	9.7	10	11	10	12	10	9.3	5.1	3.5	3.5	4.1
24	7.8	11	10	11	10	12	10	9.5	5.0	3.5	3.6	4.2
25	7.9	11	11	12	10	12	10	9.4	4.9	3.2	3.9	4.0
26	7.9	12	11	11	9.9	13	10	9.1	5.2	3.6	4.0	4.0
27	7.8	11	11	11	10	12	11	9.2	4.9	3.5	4.0	4.1
28	7.9	10	10	11	10	12	12	9.0	4.7	3.3	4.1	4.1
29	8.2	9.7	10	11	-----	12	11	8.9	4.5	3.3	4.1	4.2
30	8.3	11	10	12	-----	12	11	8.5	4.4	3.0	3.9	4.1
31	8.5	-----	10	11	-----	12	-----	7.8	-----	3.0	3.7	-----
TOTAL	235.0	289.7	335	341	304.4	367	340	308.6	190.5	116.2	111.6	122.2
MEAN	7.58	9.66	10.8	11.0	10.9	11.8	11.3	9.95	6.35	3.75	3.60	4.07
MAX	8.7	12	11	12	12	13	13	11	8.3	4.9	5.0	5.0
MIN	6.7	8.9	10	10	9.5	10	10	7.8	4.4	3.0	2.8	3.5
AC-FT	466	575	664	676	604	728	674	612	378	230	221	242
CAL YEAR 2001	TOTAL	4,009.50	MEAN	11.0	MAX	22	MIN	4.2	AC-FT	7,950		
WTR YEAR 2002	TOTAL	3,061.20	MEAN	8.39	MAX	13	MIN	2.8	AC-FT	6,070		

# REPUBLICAN RIVER BASIN

**FRENCHMAN CREEK near Enders, 06832500 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	68	7.8	
2									0	68	8.0	
3									0	77	7.9	
4									0	93	8.3	
5									0	93	8.2	
6									0	95	8.0	
7									0	84	8.1	
8									0	80	8.2	
9									0	88	8.0	
10									0	96	8.1	
11									0	102	8.0	
12									0	96	0	
13									0	99	0	
14									0	96	0	
15									0	86	0	
16									0	95	0	
17									0	105	0	
18									0	119	0	
19									0	125	0	
20									0	129	0	
21									0	95	0	
22									0	14	0	
23									0	8.7	0	
24									0	8.1	0	
25									0	8.8	0	
26									0	7.7	0	
27									0	9.1	0	
28									25	8.9	0	
29					-----				68	8.5	0	
30					-----				68	9.8	0	
31		-----			-----		-----		-----	8.7	0	-----
TOTAL									161	2,081.3	88.6	
MEAN									5.37	67.1	2.86	
MAX									68	129	8.3	
MIN									0	7.7	0	
AC-FT									319	4,130	176	
CAL YEAR 2001	MAX	257	MIN	4.4	AC-FT	9,250						
WTR YEAR 2002	MAX	129	MIN	0	AC-FT	4,620						

# REPUBLICAN RIVER BASIN

## STINKING WATER CREEK near Palisade, 06835000 - 2002

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 fair, 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 4.9 cubic feet per second August 23, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharge 53 cubic feet per second March 10, gage height 5.35 feet; minimum daily discharge 2.6 cubic feet per second August 8.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	16	18E	16E	19E	13E	19	18	11	5.6	3.4	5.8
2	11	16	18E	13E	18E	12E	19	18	11	5.4	2.9	6.0
3	11	16	18	12E	16E	15E	19	17	11	5.2	3.3	6.5
4	11	16	18	17E	16E	16E	19	17	12	4.9	3.1	5.8
5	11	16	18	19E	16	21E	19	16	12	5.1	3.3	5.4
6	11	16	18	16E	16	21	19	16	11	5.4	3.9	5.7
7	11	16	18	17E	15	19	19	15	11	5.8	3.1	5.0
8	11	16	18	17E	14	19	20	15	11	5.7	2.6	4.0
9	11	16	18	17E	17E	18E	19	15	10	5.5	4.0	4.1
10	12	16	18	18	19E	30E	19	15	9.9	5.6	4.2	4.9
11	12	16	18	18	18	19	20	15	9.6	5.2	3.9	5.9
12	12	17	18	18	18	20	22	15	9.5	5.0	3.8	6.0
13	12	17	18	19	19	20	21	15	9.3	5.0	4.0	5.8
14	12	17	18	19	19	20	21	14	9.0	4.8	4.1	6.0
15	12	17	17	17E	18	20	20	14	8.9	4.7	3.7	5.9
16	12	17	17	19E	19	20	19	14	8.9	4.2	3.7	5.7
17	12	17	17	19E	19	20	20	14	8.7	4.4	3.7	5.8
18	12	17	16	16E	19	20	20	14	8.4	4.4	4.1	5.7
19	12	17	16	18E	19	20	19	14	8.2	4.2	4.6	5.9
20	12	17	16	16E	19	20	19	14	8.0	4.2	4.9	5.9
21	12	17	16	18E	19	20	20	14	7.9	4.0	5.0	5.6
22	13	17	17	18E	19	20	19	13	7.9	3.9	4.9	5.8
23	13	17	17E	17	19	20	19	13	7.4	3.6	4.9	5.9
24	12	17	18E	17E	19	20	19	13	7.2	3.7	5.3	5.9
25	12	18	15E	17	19	20	17	13	6.9	3.6	5.4	6.0
26	13	18	17E	16	17E	20	18	13	7.5	3.7	5.4	6.2
27	13	18E	18E	17	17E	20	18	13	7.1	4.0	5.6	6.6
28	14	16E	16E	17	21E	20	18	13	6.7	3.6	5.7	6.8
29	14	18E	15E	16E	-----	20	18	12	6.3	3.7	5.8	6.9
30	15	18E	17E	16E	-----	20	18	12	5.9	3.6	5.8	6.9
31	15	-----	15E	18E	-----	20	-----	11	-----	3.7	5.8	-----
TOTAL	377	503	532	528	503	603	576	445	269.2	141.4	133.9	174.4
MEAN	12.2	16.8	17.2	17.0	18.0	19.5	19.2	14.4	8.97	4.56	4.32	5.81
MAX	15	18	18	19	21	30	22	18	12	5.8	5.8	6.9
MIN	11	16	15	12	14	12	17	11	5.9	3.6	2.6	4.0
AC-FT	748	998	1,060	1,050	998	1,200	1,140	883	534	280	266	346
CAL YEAR 2001	TOTAL	6,467.50	MEAN	17.7	MAX	46	MIN	5.9	AC-FT	12,830		
WTR YEAR 2002	TOTAL	4,785.90	MEAN	13.1	MAX	30	MIN	2.6	AC-FT	9,490		

E indicates estimated discharge.



# REPUBLICAN RIVER BASIN

**CULBERTSON CANAL from Frenchman River, 00035000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							3.8	38	24	30	12	
2							25	37	23	37	11	
3							40	37	24	44	12	
4							39	37	32	46	12	
5							39	36	33	56	3.2	
6							39	36	33	64	0	
7							40	35	32	73	0	
8							40	34	30	74	0	
9							35	33	27	66	0	
10							38	34	23	69	0	
11							38	33	20	73	0	
12							38	32	18	80	0	
13							39	31	17	84	0	
14							39	30	17	86	0	
15							40	30	16	86	0	
16							38	31	17	81	0	
17							37	30	16	80	0	
18							36	30	15	85	0	
19							35	31	14	93	0	
20							35	30	13	100	0	
21							37	32	13	101	0	
22							37	28	15	103	0	
23							38	27	12	69	0	
24							37	28	12	34	0	
25							36	28	10	28	0	
26							35	29	14	24	0	
27							38	28	13	23	0	
28							38	28	12	19	0	
29					-----		38	26	10	17	0	
30					-----		38	24	10	16	0	
31	-----				-----		-----	24	-----	13	0	-----
TOTAL							1,085.8	967	565	1,854	50.2	
MEAN							36.2	31.2	18.8	59.8	1.62	
MAX							40	38	33	103	12	
MIN							3.8	24	10	13	0	
AC-FT							2,150	1,920	1,120	3,680	100	
CAL YEAR 2001	MAX	185	MIN	0	AC-FT	13,560						
WTR YEAR 2002	MAX	103	MIN	0	AC-FT	8,970						

# REPUBLICAN RIVER BASIN

## RIVERSIDE CANAL from Frenchman River, 00127000 - 2002

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11							0	7.8	1.1	0	
2	6.1							0	7.7	.85	.04	
3	13							0	7.4	.58	.01	
4	14							0	11	.13	.24	
5	15							0	9.2	0	0	
6	17							.28	8.9	0	0	
7	17							4.8	8.6	0	0	
8	16							3.2	8.2	.29	0	
9	15							7.9	7.9	0	17	
10	16							8.0	7.8	0	2.1	
11	17							8.4	7.7	0	.28	
12	16							8.2	7.4	0	.15	
13	17							8.1	7.0	0	0	
14	18							8.0	7.0	0	0	
15	19							8.3	7.2	0	0	
16	18							8.3	7.4	0	0	
17	19							7.6	7.3	0	0	
18	18							7.4	7.0	0	0	
19	18							7.2	6.6	0	0	
20	18							7.3	6.3	0	.04	
21	10							7.6	6.5	.03	.42	
22	0							8.9	5.5	.25	.01	
23	0							8.2	4.8	0	0	
24	0							7.9	3.9	.14	0	
25	0							7.8	3.9	0	0	
26	0							7.2	4.6	0	0	
27	0							6.8	4.2	0	0	
28	0							6.9	4.2	0	0	
29	0				-----			6.7	3.5	0	0	
30	0				-----			6.5	2.5	0	0	
31	0	-----			-----		-----	5.5	-----	0	0	-----
TOTAL	328.1							182.98	199.0	3.37	20.29	
MEAN	10.6							5.90	6.63	.11	.65	
MAX	19							8.9	11	1.1	17	
MIN	0							0	2.5	0	0	
AC-FT	651							363	395	6.7	40	
CAL YEAR 2001	MAX	22	MIN	0	AC-FT	3,040						
WTR YEAR 2002	MAX	19	MIN	0	AC-FT	1,460						

# REPUBLICAN RIVER BASIN

**RED WILLOW CREEK above Hugh Butler Lake, 06837300 - 2002**

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 3.1 cubic feet per second July 12, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharge 186 cubic feet per second August 9, gage height 6.32 feet; minimum daily discharge 1.9 cubic feet per second August 3, 4, and 8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	12	12	8.0E	8.0E	15E	18	20	11	4.8	2.4	3.2
2	8.6	12	13	8.3E	8.0E	15E	18	18	10	4.5	2.1	3.0
3	8.6	12	17	8.6E	8.0E	15E	18	16	10	4.9	1.9	2.6
4	8.6	11	16	9.0E	8.0E	16E	17	18	12	4.6	1.9	2.6
5	8.4	11	16	9.3E	11 E	19E	17	16	14	4.5	2.4	2.7
6	8.4	11	15	9.6E	13 E	21E	17	15	15	4.1	3.0	2.1
7	8.4	11	16	10 E	15 E	20E	17	16	14	4.0	2.3	2.3
8	9.0	12	15	10 E	17	20	17	15	12	4.0	1.9	2.5
9	9.3	12	16	11 E	17	21	17	15	10	3.5	86	2.7
10	9.5	12	16	11 E	15 E	16E	17	16	9.0	3.8	5.9	4.5
11	9.5	12	15	13 E	14 E	17E	17	15	8.5	4.2	4.4	3.5
12	9.2	11	16	15 E	15 E	21	17	15	7.4	3.6	4.1	3.9
13	9.2	11	14 E	17	17 E	21	17	15	6.2	3.6	3.9	4.3
14	9.0	11	13 E	16	19	22	17	14	6.0	3.6	3.4	4.9
15	9.3	11	14 E	18	18	22	17	13	6.1	3.7	3.8	3.9
16	9.5	11	16	16 E	18	22	16	14	6.2	3.8	3.5	4.4
17	10	11	16	14 E	19	22	15	16	6.9	3.7	3.3	4.6
18	12	12	16	12 E	19	21	15	15	6.8	4.0	3.5	4.5
19	14	12	16	10 E	19	21	15	14	5.6	4.4	3.9	4.5
20	14	12	15	10 E	19	20	14	14	5.2	3.7	3.9	4.6
21	13	12	15	12 E	19	19	14	14	4.7	3.3	3.8	4.7
22	12	12	15	14 E	19	18	14	13	4.1	3.4	3.7	5.0
23	11	12	15	16	20	18	13	13	4.1	3.4	4.0	4.7
24	10	12	14 E	17	20	18	14	13	3.9	3.2	3.2	5.2
25	9.9	13	12 E	15 E	21	18	14	14	3.4	3.1	3.7	5.1
26	10	13	10 E	14 E	20	17	18	13	5.6	3.5	3.1	5.2
27	10	13	9.6E	15	18 E	17	20	13	7.5	3.7	4.2	5.4
28	10	13	9.2E	13 E	16 E	18	19	13	7.2	2.9	4.3	5.8
29	11	13	8.8E	11 E	-----	18	20	14	6.4	3.0	3.4	6.1
30	11	13	8.4E	9.0E	-----	19	20	13	5.7	2.8	3.5	6.2
31	11	-----	8.0E	9.0E	-----	19	-----	12	-----	2.5	3.1	-----
TOTAL	311.8	356	428.0	380.8	450.0	586	499	455	234.5	115.8	187.5	124.7
MEAN	10.1	11.9	13.8	12.3	16.1	18.9	16.6	14.7	7.82	3.74	6.05	4.16
MAX	14	13	17	18	21	22	20	20	15	4.9	86	6.2
MIN	8.4	11	8.0	8.0	8.0	15	13	12	3.4	2.5	1.9	2.1
AC-FT	618	706	849	755	893	1,160	990	902	465	230	372	247
CAL YEAR 2001	TOTAL	5,356.10	MEAN	14.7	MAX	58	MIN	3.4	AC-FT	10,620		
WTR YEAR 2002	TOTAL	4,129.10	MEAN	11.3	MAX	86	MIN	1.9	AC-FT	8,190		

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

## HUGH BUTLER LAKE near McCook, 06837390 - 2002

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 CONTENTS IN ACRE-FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16,430	16,750	17,340	17,970	18,650	19,250	20,090	20,520	20,690	18,620	11,070	11,140
2	16,430	16,750	17,360	17,990	18,670	19,310	20,120	20,540	20,690	18,270	11,040	11,130
3	16,430	16,770	17,390	18,000	18,700	19,320	20,100	20,550	20,680	17,900	11,030	11,120
4	16,430	16,780	17,430	18,020	18,720	19,340	20,100	20,560	20,710	17,570	11,020	11,120
5	16,430	16,790	17,450	18,030	18,750	19,360	20,130	20,580	20,740	17,250	11,030	11,100
6	16,420	16,820	17,460	18,050	18,770	19,420	20,140	20,590	20,720	16,960	11,020	11,090
7	16,420	16,840	17,490	18,080	18,790	19,440	20,160	20,590	20,720	16,670	11,010	11,080
8	16,420	16,880	17,510	18,100	18,820	19,460	20,180	20,610	20,700	16,340	10,990	11,050
9	16,430	16,870	17,540	18,140	18,840	19,500	20,210	20,610	20,680	16,000	11,090	11,040
10	16,450	16,890	17,560	18,160	18,860	19,520	20,230	20,590	20,660	15,660	11,240	11,050
11	16,430	16,910	17,580	18,180	18,880	19,560	20,250	20,590	20,630	15,360	11,240	11,040
12	16,430	16,940	17,620	18,210	18,910	19,600	20,270	20,600	20,610	15,040	11,240	11,030
13	16,450	16,960	17,650	18,250	18,930	19,630	20,290	20,600	20,590	14,760	11,230	11,360
14	16,460	16,960	17,670	18,280	18,950	19,660	20,300	20,600	20,550	14,510	11,230	11,380
15	16,550	16,980	17,690	18,280	18,980	19,690	20,310	20,590	20,520	14,240	11,230	11,370
16	16,550	17,000	17,710	18,300	19,000	19,710	20,320	20,600	20,510	13,950	11,200	11,370
17	16,570	17,020	17,740	18,310	19,020	19,740	20,330	20,610	20,470	13,650	11,200	11,360
18	16,600	17,040	17,770	18,330	19,040	19,780	20,330	20,610	20,470	13,260	11,180	11,360
19	16,600	17,050	17,790	18,350	19,070	19,810	20,330	20,620	20,450	12,880	11,170	11,340
20	16,620	17,050	17,810	18,370	19,100	19,820	20,330	20,620	20,420	12,470	11,180	11,330
21	16,640	17,070	17,830	18,390	19,130	19,860	20,330	20,620	20,380	12,040	11,170	11,330
22	16,660	17,080	17,860	18,410	19,150	19,840	20,330	20,610	20,340	11,630	11,180	11,320
23	16,670	17,110	17,870	18,440	19,170	19,870	20,340	20,600	20,320	11,190	11,170	11,300
24	16,690	17,170	17,870	18,470	19,210	19,900	20,360	20,590	20,200	11,090	11,180	11,290
25	16,670	17,230	17,880	18,470	19,230	19,920	20,340	20,640	20,140	11,090	11,170	11,290
26	16,660	17,310	17,880	18,500	19,250	19,940	20,330	20,640	20,000	11,080	11,170	11,290
27	16,660	17,280	17,900	18,540	19,230	19,980	20,370	20,640	19,800	11,080	11,160	11,290
28	16,680	17,260	17,930	18,560	19,240	20,000	20,460	20,660	19,560	11,080	11,160	11,290
29	16,690	17,260	17,940	18,580	-----	20,020	20,490	20,690	19,310	11,080	11,160	11,290
30	16,700	17,310	17,950	18,580	-----	20,050	20,520	20,690	19,000	11,080	11,160	11,290
31	16,730	-----	17,960	18,620	-----	20,070	-----	20,690	-----	11,070	11,150	-----
MAX	16,730	17,310	17,960	18,620	19,250	20,070	20,520	20,690	20,740	18,620	11,240	11,380
MIN	16,420	16,750	17,340	17,970	18,650	19,250	20,090	20,520	19,000	11,070	10,990	11,030
CHANGE	310	580	650	660	620	830	450	170	-1,690	-7,930	80.0	140
CAL YEAR 2001			MEAN	22,116	MAX	31,300	MIN	16,000				
WTR YEAR 2002			MEAN	17,139	MAX	20,740	MIN	10,990				

# REPUBLICAN RIVER BASIN

**RED WILLOW CANAL from Red Willow Creek, 00126000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	47		
2									0	57		
3									0	59		
4									0	58		
5									0	53		
6									0	53		
7									0	54		
8									0	58		
9									0	59		
10									0	56		
11									0	55		
12									0	54		
13									0	52		
14									0	51		
15									0	56		
16									0	58		
17									0	63		
18									0	71		
19									0	77		
20									0	79		
21									0	79		
22									0	87		
23									0	92		
24									15	45		
25									30	21		
26									40	12		
27									32	0		
28									34	0		
29					-----				35	0		
30					-----				36	0		
31		-----			-----		-----		-----	0		-----
TOTAL									222	1,506		
MEAN									7.40	48.6		
MAX									40	92		
MIN									0	0		
AC-FT									440	2,990		
CAL YEAR 2001	MAX	74	MIN	0	AC-FT	5,350						
WTR YEAR 2002	MAX	92	MIN	0	AC-FT	3,430						

# REPUBLICAN RIVER BASIN

**BARTLEY CANAL from Republican River, 00006000 - 2002**

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

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	63		
2									0	70		
3									0	70		
4									0	67		
5									0	65		
6									0	64		
7									0	61		
8									0	67		
9									0	72		
10									0	70		
11									0	64		
12									0	56		
13									0	54		
14									0	54		
15									0	58		
16									0	57		
17									0	62		
18									0	72		
19									0	80		
20									0	86		
21									0	86		
22									0	88		
23									0	85		
24									0	63		
25									0	11		
26									0	0		
27									29	0		
28									37	0		
29					-----				47	0		
30					-----				48	0		
31		-----			-----		-----		-----0	0		-----
TOTAL									161	1,645		
MEAN									5.37	53.1		
MAX									48	88		
MIN									0	0		
AC-FT									319	3,260		
CAL YEAR 2001	MAX	91	MIN	0	AC-FT	5,870						
WTR YEAR 2002	MAX	88	MIN	0	AC-FT	3,580						

# REPUBLICAN RIVER BASIN

**MEDICINE CREEK above Harry Strunk Lake, 06841000 - 2002**

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 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 estimated 82 cubic feet per second March 10, at approximate gage height 4.9 feet during the recession when ice was going out; maximum gage height 6.03 feet November 30 due to backwater from ice; minimum daily discharge 7.1 cubic feet per second August 8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	39	44E	33E	45E	49E	52	53	34	19	9.2	12
2	31	39	45	33E	45E	50E	52	49	33	17	7.9	12
3	30	38	45	32E	46E	55E	49	47	32	17	8.0	10
4	31	39	46	33E	47E	60E	48	46	34	17	9.1	11
5	32	39	46	33E	48E	65E	48	46	36	17	8.6	9.8
6	32	39	46	34E	48	65E	48	45	38	17	8.6	8.9
7	34	40	46	35E	47	60E	48	44	35	16	8.1	8.2
8	35	40	46	37E	47	55E	48	44	33	15	7.1	7.4
9	35	40	47	40E	48	50E	49	45	30	16	11	8.2
10	35	40	46	43E	48	50E	49	45	28	14	11	10
11	35	40	45	46E	45	50E	49	45	28	15	11	12
12	36	41	46	47	48	53	48	44	27	15	11	14
13	37	42	46	47	48	54	48	44	26	15	12	18
14	38	42	47	46	47	55	48	43	26	16	13	18
15	44	42	45	48	47	55	48	42	27	15	12	17
16	46	42	45	49	47	54	47	42	28	14	10	17 E
17	52	43	45	45	48	53	46	42	28	14	9.6	16 E
18	49	43	45	47	49	53	45	42	27	12	9.2	15 E
19	46	43	44	49	50	53	43	42	28	12	11	15 E
20	44	43	44	49	50	53	42	41	27	12	11	15 E
21	43	43	44	52	50	53	43	39	25	10	11	16 E
22	43	43	44	48	50	52	44	38	23	9.9	10	16 E
23	43	42E	45	46	51	51	45	37	22	8.7	15	17 E
24	42	41E	43	46	51	51	42	37	21	8.6	20	17 E
25	41	40E	43	45	51	51	34	38	20	8.7	15	18 E
26	40	40E	42E	45	50E	51	34	39	29	9.8	15	18 E
27	40	40E	42E	46	49E	51	41	39	26	11	14	19 E
28	40	41E	41E	47	49E	51	49	39	24	11	14	19 E
29	40	42E	39E	49	-----	52	60	39	22	10	13	20 E
30	40	43E	37E	47E	-----	52	56	38	21	10	13	20 E
31	40	-----	35E	45E	-----	52	-----	36	-----	10	13	-----
TOTAL	1,205	1,229	1,364	1,342	1,349	1,659	1,403	1,310	838	412.7	351.4	434.5
MEAN	38.9	41.0	44.0	43.3	48.2	53.5	46.8	42.3	27.9	13.3	11.3	14.5
MAX	52	43	47	52	51	65	60	53	38	19	20	20
MIN	30	38	35	32	45	49	34	36	20	8.6	7.1	7.4
AC-FT	2,390	2,440	2,710	2,660	2,680	3,290	2,780	2,600	1,660	819	697	862
CAL YEAR 2001	TOTAL	16,367.0	MEAN	44.8	MAX	197	MIN	16	AC-FT	32,460		
WTR YEAR 2002	TOTAL	12,897.6	MEAN	35.3	MAX	65	MIN	7.1	AC-FT	25,580		

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

## HARRY STRUNK LAKE near Cambridge, 06842000 - 2002

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 CONTENTS IN ACRE-FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18,860	20,860	23,200	25,500	27,960	30,290	33,010	35,230	36,440	32,090	18,690	12,380
2	18,930	20,920	22,030	25,580	28,040	30,380	33,130	35,300	36,440	31,610	18,210	12,400
3	18,980	21,010	23,390	25,640	28,140	30,420	33,170	35,350	36,440	31,110	17,840	12,420
4	19,020	21,080	23,460	25,690	28,230	30,480	33,220	35,430	36,480	30,670	17,460	12,420
5	19,050	21,140	23,550	25,770	28,340	30,590	33,290	35,480	36,520	30,270	17,150	12,420
6	19,090	21,220	23,630	25,850	28,410	30,690	33,380	35,560	36,520	29,890	16,780	12,420
7	19,130	21,300	23,710	25,920	28,490	30,790	33,460	35,630	36,540	29,580	16,380	12,430
8	19,190	21,390	23,790	26,010	28,580	30,900	33,570	35,720	36,480	29,200	16,000	12,420
9	19,240	21,420	23,860	26,120	28,700	31,000	33,640	35,720	36,440	28,820	15,650	12,420
10	19,300	21,500	23,940	26,180	28,760	31,060	33,710	35,760	36,410	28,430	15,320	12,440
11	19,340	21,570	24,010	26,280	28,820	31,200	33,800	35,850	36,410	27,920	15,040	12,440
12	19,390	21,650	24,150	26,360	28,930	31,290	33,870	35,920	36,410	27,430	14,720	12,460
13	19,480	21,720	24,190	26,460	28,990	31,380	33,950	36,000	36,410	26,990	14,420	12,510
14	19,550	21,810	24,280	26,550	29,060	31,490	34,040	36,040	36,350	26,530	14,080	12,550
15	19,720	21,880	24,350	26,630	29,140	31,590	34,110	36,090	36,310	26,050	13,750	12,570
16	19,770	21,970	24,430	26,720	29,240	31,660	34,180	35,870	36,410	25,600	13,430	12,580
17	19,850	22,030	24,510	26,790	29,310	31,760	34,260	35,920	36,410	25,160	13,120	12,600
18	19,950	22,110	24,600	26,870	29,400	31,860	34,290	35,960	36,390	24,680	12,830	12,620
19	20,000	22,180	24,680	26,940	29,510	31,960	34,380	36,000	36,200	24,220	12,530	12,650
20	20,090	22,250	24,810	27,020	29,590	32,040	34,420	36,050	36,150	23,790	12,260	12,650
21	20,170	22,310	24,840	27,090	29,690	32,130	34,450	36,050	35,870	24,670	12,100	12,650
22	20,230	22,400	24,930	27,160	29,750	32,140	34,500	36,050	35,700	22,920	12,130	12,670
23	20,300	22,490	25,010	27,260	29,840	32,240	34,540	36,130	35,540	22,490	12,160	12,690
24	20,370	22,580	25,050	27,330	29,950	32,340	34,650	36,130	35,240	22,040	12,190	12,690
25	20,400	22,740	25,080	27,420	30,050	32,450	34,680	36,260	34,770	21,570	12,230	12,690
26	20,450	22,920	25,120	27,490	30,110	32,480	34,680	36,300	34,430	21,120	12,260	12,720
27	20,510	22,950	25,180	27,560	30,110	32,580	34,790	36,330	34,130	20,700	12,280	12,740
28	20,590	23,000	25,280	27,640	30,190	32,670	34,920	36,370	33,620	20,340	12,310	12,760
29	20,660	23,040	25,340	27,730	-----	32,770	35,010	36,410	33,130	19,950	12,330	12,800
30	20,720	23,100	25,380	27,790	-----	32,860	35,140	36,430	32,600	19,550	12,350	12,820
31	20,820	-----	25,430	27,920	-----	32,940	-----	36,440	-----	19,100	12,360	-----
MAX	20,820	23,100	25,430	27,920	30,190	32,940	35,140	36,440	36,540	32,090	18,690	12,820
MIN	18,860	20,860	22,030	25,500	27,960	30,290	33,010	35,230	32,600	19,100	12,100	12,380
CHANGE	2,000	2,280	2,330	2,490	2,270	2,750	2,200	1,300	-3,840	-13,500	-6,740	460
CAL YEAR 2001			MEAN	27,549	MAX	37,700	MIN	17,000				
WTR YEAR 2002			MEAN	25,948	MAX	36,540	MIN	12,100				



# REPUBLICAN RIVER BASIN

**MEDICINE CREEK below Harry Strunk Lake, 06842500 - 2002**

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 5 cubic feet per second are good, records below 5 cubic feet per second 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 260 cubic feet per second July 25, gage height 2.47 feet; minimum daily discharge zero September 2.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	.37	.50	.37	.90	.68	.70	1.5	13	224	218	.01
2	.39	.36	.50	.27	.77	.58	.51	1.5	12	219	188	0
3	.37	.42	.49	.28	.90	.55	.59	1.6	13	216	186	.53
4	.38	.41	.58	.29	.66	.58	.68	1.6	13	205	185	.81
5	.45	.45	.59	.32	.42	.64	.75	1.6	14	168	187	6.2
6	.43	.54	.62	.31	.38	.52	.75	.52	14	156	194	1.3
7	.32	.63	.68	.29	.38	.56	.66	.57	14	157	193	.79
8	.27	.71	.85	.29	.40	.54	.87	.57	13	174	193	.78
9	.33	.96	.73	.29	.36	.42	.92	.62	12	194	174	1.1
10	.36	.78	.66	.36	.40	.44	.93	.59	12	202	171	.91
11	.28	.99	.90	.34	.42	.46	1.1	.26	12	204	172	.84
12	.28	1.3	1.1	.30	.32	.45	.95	.27	13	205	168	1.3
13	.28	1.9	1.1	.28	.30	.44	.25	1.2	13	204	175	1.1
14	.23	1.7	1.1	.25	.31	.70	.29	.76	12	206	187	1.1
15	.62	1.9	1.1	.30	.33	.97	.32	1.0	9.3	208	183	1.1
16	.06	1.8	1.2	.39	.36	1.0	.35	1.7	8.2	212	171	1.0
17	.07	1.8	1.0	.38	.40	.88	.39	2.4	7.6	212	167	1.1
18	.09	1.4	1.1	.39	.48	.68	.42	3.1	48	214	167	.95
19	.09	1.0	1.1	.46	.87	.47	.40	3.2	101	215	161	1.0
20	.10	1.8	1.1	.46	1.0	.51	.67	4.0	140	214	141	1.1
21	.13	1.9	.75	.50	1.3	.50	.82	4.2	104	213	10	.74
22	.14	1.7	.46	.57	1.8	.47	.94	4.4	75	212	.31	.56
23	.14	1.7	.35	.64	1.9	.59	.77	5.0	104	215	.24	1.6
24	.14	.49	.35	.56	1.7	.97	.68	6.8	187	213	.22	1.1
25	.16	.41	.40	.67	1.2	.69	1.2	8.4	238	230	.17	1.8
26	.19	.48	.39	.66	1.0	.73	1.4	9.0	230	217	.11	1.3
27	.21	.38	.40	.96	.75	.61	1.4	10	229	192	.06	1.3
28	.22	.46	.35	1.0	.65	.82	.91	10	231	182	.04	1.2
29	.22	.71	.37	.92	-----	.81	.93	13	232	179	.03	1.4
30	.23	.76	.37	.78	-----	.67	1.2	14	225	200	.02	1.4
31	.31	-----	.37	1.0	-----	.57	-----	13	-----	216	.01	-----
TOTAL	7.94	30.21	21.56	14.88	20.66	19.50	22.75	126.36	2,349.1	6,278	3,592.21	35.42
MEAN	.26	1.01	.70	.48	.74	.63	.76	4.08	78.3	203	116	1.18
MAX	.62	1.9	1.2	1.0	1.9	1.0	1.4	14	238	230	218	6.2
MIN	.06	.36	.35	.25	.30	.42	.25	.26	7.6	156	.01	0
AC-FT	16	60	43	30	41	39	45	251	4,660	12,450	7,130	70
CAL YEAR 2001	TOTAL	15,818.17	MEAN	43.3	MAX	279	MIN	.06	AC-FT	31,380		
WTR YEAR 2002	TOTAL	12,518.59	MEAN	34.3	MAX	238	MIN	0	AC-FT	24,830		

# REPUBLICAN RIVER BASIN

**CAMBRIDGE CANAL from Republican River, 00020000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	213	191	
2									0	202	174	
3									0	192	172	
4									0	169	172	
5									0	138	177	
6									0	131	179	
7									0	134	183	
8									0	152	181	
9									0	176	146	
10									0	195	130	
11									0	211	130	
12									0	206	141	
13									0	203	152	
14									0	203	163	
15									0	199	157	
16									0	201	142	
17									0	200	137	
18									0	211	137	
19									48	198	131	
20									91	190	112	
21									83	188	42	
22									66	186	0	
23									65	188	0	
24									128	198	0	
25									187	209	0	
26									200	182	0	
27									206	170	0	
28									215	172	0	
29					-----				210	187	0	
30					-----				211	199	0	
31		-----			-----		-----		-----0	206	0	-----
TOTAL									1,710	5,809	3,149	
MEAN									57.0	187	102	
MAX									215	213	191	
MIN									0	131	0	
AC-FT									3,390	11,520	6,250	
CAL YEAR 2001	MAX	222	MIN	0	AC-FT	19,630						
WTR YEAR 2002	MAX	215	MIN	0	AC-FT	21,160						

# REPUBLICAN RIVER BASIN

**MUDDY CREEK at Arapahoe, 06844000 - 2002**

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 11 cubic feet per second March 22, gage height 4.88 feet; maximum gage height 5.16 feet February 13 due to backwater from ice, minimum daily discharge 2.4 cubic feet per second September 10.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	6.8	7.0	6.2E	7.0E	6.6E	7.4	6.2	5.5	3.5	2.8	3.0
2	5.5	6.9	7.0	6.2E	7.0E	7.0E	7.1	6.0	5.9	3.5	3.1	2.9
3	5.5	7.0	7.2	6.1	6.8E	7.6	6.7	5.6	5.9	3.5	3.3	2.8
4	5.5	7.0	7.0	6.4E	6.8E	7.0	6.6	5.5	6.0	3.6	3.4	2.8
5	5.5	7.2	7.3	6.6E	6.6E	7.3	6.6	5.4	6.3	3.5	3.7	2.8
6	5.5	7.3	7.0	6.6E	6.4E	6.8	6.6	5.5	6.0	3.4	3.5	2.8
7	5.5	7.3	6.8	6.6E	6.4E	6.6	6.7	5.4	5.7	3.4	3.1	2.6
8	5.5	7.4	6.8	6.9	6.8E	6.6E	6.8	5.5	5.5	3.4	3.2	2.6
9	5.6	7.4	6.4	7.2	7.0E	6.4E	6.8	5.5	5.1	3.5	4.5	2.5
10	5.9	7.4	6.4E	7.0	7.2E	6.4E	6.7	5.5	4.9	3.4	3.9	2.4
11	5.6	7.4	6.4E	10	6.8E	6.6E	6.7	8.4	4.7	3.3	3.6	2.6
12	5.8	7.4	6.4E	6.8	7.0E	6.7	6.7	7.3	4.5	3.4	3.4	2.7
13	6.2	7.2	6.2E	6.7	6.6E	7.0	6.5	6.3	4.4	3.5	3.5	3.1
14	5.9	7.1	6.1	6.4	6.8	7.1	6.6	5.8	4.2	3.6	3.5	3.4
15	7.7	7.2	6.0E	6.6E	6.7	6.9	6.6	5.8	4.5	3.6	3.6	3.5
16	8.2	7.1	6.0E	6.6E	6.7	7.0	6.6	6.3	5.1	3.6	3.5	3.3
17	7.2	7.1	6.1	6.4E	6.8	7.0	6.5	6.2	4.7	3.2	3.3	3.4
18	6.5	7.3	6.0E	6.4E	6.9	7.0	6.7	6.0	4.5	3.1	3.4	3.4
19	6.1	7.0	6.0E	6.6E	7.2	7.1	6.4	5.8	4.6	3.1	3.5	3.2
20	5.7	7.1	6.0E	6.4E	7.1	7.1	6.1	5.8	5.6	2.9	3.5	3.3
21	5.7	7.1	6.0E	6.8E	7.2	6.9	6.3	5.8	5.4	2.9	3.4	3.2
22	5.6	7.1	6.0E	7.3	7.1	7.1	6.3	5.8	5.3	3.4	3.2	3.2
23	5.7	7.6	6.0E	7.0	7.2	7.3	6.5	5.6	5.2	3.4	3.1	3.2
24	5.8	8.3	6.0E	6.8E	7.4	7.7	6.5	5.9	4.4	3.2	3.0	3.2
25	5.9	8.0	6.0E	7.0E	7.2E	7.7	6.3	6.6	4.2	3.1	3.1	3.2
26	6.1	7.8	6.0E	7.2E	6.4E	7.6	6.1	6.5	4.2	3.2	3.0	3.2
27	6.3	7.6	6.0E	7.0	6.6E	7.8	6.5	6.4	4.3	3.1	3.1	3.1
28	6.3	7.2	6.0E	6.8E	6.8E	8.1	6.9	6.3	4.1	2.9	3.1	3.0
29	6.5	6.8	5.9	7.0E	-----	8.1	6.7	6.1	3.9	3.0	3.1	3.1
30	6.6	6.9	6.0E	7.0E	-----	7.9	6.6	5.9	3.6	2.9	3.1	3.1
31	6.6	-----	6.2E	5.6E	-----	7.5	-----	5.7	-----	2.8	3.0	-----
TOTAL	187.5	218.0	196.2	210.2	192.5	221.5	198.1	186.4	148.2	101.9	103.5	90.6
MEAN	6.05	7.27	6.33	6.78	6.88	7.15	6.60	6.01	4.94	3.29	3.34	3.02
MAX	8.2	8.3	7.3	10	7.4	8.1	7.4	8.4	6.3	3.6	4.5	3.5
MIN	5.5	6.8	5.9	5.6	6.4	6.4	6.1	5.4	3.6	2.8	2.8	2.4
AC-FT	372	432	389	417	382	439	393	370	294	202	205	180
CAL YEAR 2001	TOTAL	3,929.60	MEAN	10.8	MAX	255	MIN	3.7	AC-FT	7,790		
WTR YEAR 2002	TOTAL	2,054.60	MEAN	5.63	MAX	10	MIN	2.4	AC-FT	4,080		

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

## TURKEY CREEK at Edison, 06844210 - 2002

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 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 52 cubic feet per second March 10, gage height 4.70 feet; minimum daily discharge 4.2 cubic feet per second September 7 & 8.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	16	18	13E	18E	14E	15	19	16	13	6.6	4.4
2	12	17	17	14E	18E	15E	15	19	16	14	5.8	4.7
3	12	16	17	15E	19	16	15	19	16	13	6.5	5.2
4	13	16	17	17	19	32	15	19	17	13	8.5	5.2
5	13	16	17	16E	19	26	15	19	17	12	8.5	4.7
6	14	16	17	16E	20	21	15	19	16	11	6.2	4.5
7	14	16	16	17E	19	17	16	19	16	11	6.2	4.2
8	14	15	17	17E	19	15	17	19	16	11	5.9	4.2
9	14	15	16	18E	20	16	16	18	15	11	6.1	4.8
10	14	15	17	18E	18	31	16	18	15	11	7.1	5.0
11	14	16	17	19	18	23	16	23	15	11	5.8	5.5
12	14	16	18	19	19	19	16	24	15	9.8	5.7	6.3
13	15	16	17	18	18	16	16	19	14	10	6.3	7.0
14	16	16	17	18	18	15	17	18	14	9.9	6.3	6.1
15	17	16	17	18	18	15	17	18	21	9.4	5.2	5.8
16	29	16	17	17E	18	14	17	18	18	9.5	4.4	5.9
17	17	15	17	16E	18	15	17	19	17	10	6.2	6.0
18	16	15	17	15E	18	15	17	18	15	10	6.3	6.3
19	15	15	17	15E	18	15	17	18	15	9.5	5.1	6.2
20	15	15	17	15E	18	15	17	18	21	9.8	5.1	6.1
21	15	15	17	15E	18	15	18	18	25	10	6.1	5.9
22	15	16	17	16E	17	14	19	17	16	10	6.0	5.9
23	15	17	16E	16E	18	15	18	17	16	9.5	6.2	6.2
24	15	18	16	17E	18	15	18	17	15	9.5	10	6.2
25	16	19	15E	19	18	15	17	18	15	9.5	9.1	6.4
26	15	17	15E	18	16	15	17	19	14	8.7	8.6	6.7
27	15	16	15E	18	16	15	18	18	14	9.5	5.5	7.1
28	16	15	14E	18	15E	15	20	18	14	9.6	6.5	7.1
29	16	18	14E	18	-----	15	19	18	14	7.8	5.9	6.9
30	16	18	13E	17	-----	15	19	18	13	7.0	5.1	6.9
31	16	-----	14	19	-----	15	-----	17	-----	6.3	4.6	-----
TOTAL	470	483	506	522	506	529	505	576	481	316.3	197.4	173.4
MEAN	15.2	16.1	16.3	16.8	18.1	17.1	16.8	18.6	16.0	10.2	6.37	5.78
MAX	29	19	18	19	20	32	20	24	25	14	10	7.1
MIN	12	15	13	13	15	14	15	17	13	6.3	4.4	4.2
AC-FT	932	958	1,000	1,040	1,000	1,050	1,000	1,140	954	627	392	344
CAL YEAR 2001	TOTAL	6,746.30	MEAN	18.5	MAX	189	MIN	7.5	AC-FT	13,380		
WTR YEAR 2002	TOTAL	5,265.10	MEAN	14.4	MAX	32	MIN	4.2	AC-FT	10,440		

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

**BEAVER CREEK near Beaver City, 06847000 - 2002**

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 5 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 22 cubic feet per second May 17, gage height 3.51 feet; minimum daily discharge zero September 5-12.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.79	.25	.52	.62E	.28	.73	.92E	.79	.14	.02	.02
2	.13	.78	.27	.56	.60E	.86	.79	1.0 E	.68	.11	.01	.02
3	.10	.76	.33	.53	.60E	.78	.90	1.0 E	.53	.08	.02	.01
4	.19	.49	.38	.45	.60E	1.1	.92	.92E	.48	.09	.01	.01
5	.26	.38	.37	.44	.56	.74	.80	1.0 E	.47	.08	.01	0
6	.33	.32	.32	.42	.65	.77	.84	1.0 E	.43	.08	.01	0
7	.38	.28	.35	.40	.63	.80	.76	.94E	.26	.10	.01	0
8	.36	.15	.25	.46E	.50	.64	.57	.99E	.20	.13	.01	0
9	.28	.10	.26	.72E	.44	.88	.37	.90E	.13	.13	.17	0
10	.20	.07	.23	.80E	.44	.69	.40	.89E	.06	.10	.11	0
11	.25	.06	.26	.79E	.32	.57	.42E	.90E	.06	.07	.07	0
12	.42	.04	.32	.69E	.27	.54	.54E	.81E	.06	.11	.03	0
13	.58	.04	.30	.69E	.27	.63	.66E	.84E	.05	.20	.04	.01
14	.37	.03	.26	.69E	.33	.57	.63E	.68E	.04	.23	.04	.01
15	.94	.05	.25	.69E	.29	.31	.60E	.61	.12	.23	.02	.01
16	.78	.07	.39	.79E	.28	.32	.66E	4.2	.15	.15	.02	.01
17	.65	.04	.36	.80E	.40	.36	.69E	18	.07	.09	.01	.01
18	.64	.04	.37	.76E	.76	.37	.69E	5.3	.08	.09	.02	.01
19	.49	.04	.50	.69E	.80	.30	.81E	2.5	.10	.04	.03	.01
20	.44	.08	.45	.69E	.78	.29	.80E	1.5	.08	.03	.05	.01
21	.38	.11	.44	.69E	.74	.24	.80E	1.3	.09	.17	.02	.01
22	.36	.07	.44	.69E	.73	.23	.83E	1.1	.06	.61	.02	.01
23	.30	.34	.44	.69E	.70	.26	.90E	1.7	.03	.24	.06	.01
24	.28	.24	.36	.69E	.78	.51	.89E	2.6	.03	.11	.04	.01
25	.46	.13	.33	.64E	.58	.48	.83E	2.7	.04	.06	.02	.01
26	.52	.14	.34	.60E	.47	.47	.90E	2.2	.05	.11	.02	.01
27	.65	.11	.44	.60E	.26	.67	.90E	1.7	.07	.11	.02	.01
28	.74	.16	.40	.60E	.22	.73	.92E	1.3	.12	.10	.03	.01
29	.77	.16	.27	.69E	-----	.67	.95E	1.3	.09	.10	.03	.01
30	.78	.21	.33	.69E	-----	.71	.90E	1.2	.15	.07	.02	.01
31	.83	-----	.40	.69E	-----	.73	-----	.88	-----	.02	.02	-----
TOTAL	14.01	6.28	10.66	19.85	14.62	17.50	22.40	62.88	5.57	3.98	1.01	0.24
MEAN	.45	.21	.34	.64	.52	.56	.75	2.03	.19	.13	.033	.008
MAX	.94	.79	.50	.80	.80	1.1	.95	18	.79	.61	.17	.02
MIN	.10	.03	.23	.40	.22	.23	.37	.61	.03	.02	.01	0
AC-FT	28	12	21	39	29	35	44	125	11	7.9	2.0	.5

CAL YEAR 2001	TOTAL	425.73	MEAN	1.17	MAX	15	MIN	.03	AC-FT	844
WTR YEAR 2002	TOTAL	179.00	MEAN	.49	MAX	18	MIN	0	AC-FT	355

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

## HARLAN COUNTY RESERVOIR near Republican City, 06849000 - 2002

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. New storage table started October 1, 2001. Published by U.S. Geological Survey up to Oct. 1, 1994.

### DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236,700	235,600	238,600	242,900	248,600	255,800	264,400	270,100	276,500	254,500	192,300	166,200
2	236,500	236,000	238,700	243,000	248,600	255,000	264,400	270,100	276,300	252,800	190,200	166,100
3	236,300	236,100	238,800	243,000	248,700	255,500	264,400	270,000	276,200	250,800	189,700	165,800
4	236,100	236,100	239,000	243,200	249,100	256,100	264,700	270,100	276,500	250,400	187,700	165,300
5	236,200	236,100	239,800	243,200	249,300	256,200	264,800	270,200	276,400	247,200	184,400	165,300
6	236,000	236,200	239,500	243,400	249,500	256,700	264,900	270,200	276,200	246,600	182,700	165,000
7	235,600	236,300	239,400	243,500	249,700	256,600	265,100	270,800	275,900	244,900	180,500	165,000
8	235,600	236,300	239,600	243,700	250,000	257,700	265,800	270,800	275,800	241,700	178,600	164,600
9	235,400	236,400	240,000	243,800	250,100	257,300	266,000	270,600	275,500	239,800	177,700	164,500
10	236,000	236,400	240,200	244,200	250,400	257,700	266,100	270,400	275,400	237,800	177,300	164,400
11	235,700	236,400	240,200	244,200	250,500	258,300	266,700	271,700	275,400	235,500	175,600	164,000
12	235,400	236,500	240,400	244,400	251,100	258,700	266,900	272,300	275,000	233,400	173,300	163,600
13	236,100	236,500	240,800	244,800	251,200	258,800	267,100	272,700	275,000	232,900	172,000	164,000
14	236,100	236,500	241,000	245,000	251,700	259,700	267,400	272,600	274,700	230,700	170,900	164,100
15	236,500	237,000	241,100	245,300	252,000	259,500	267,600	272,100	274,700	228,700	170,200	163,800
16	236,300	237,000	241,400	245,400	252,200	259,700	267,700	273,200	277,600	225,100	169,500	163,400
17	236,100	237,000	241,500	245,500	252,500	259,900	267,700	273,400	277,100	223,000	169,500	163,100
18	236,100	237,300	241,600	245,700	253,000	260,800	267,800	273,300	276,500	220,800	168,700	163,400
19	236,000	237,600	241,900	245,800	253,500	261,000	268,000	273,300	275,200	218,800	167,600	163,100
20	236,200	237,300	241,900	246,100	253,600	261,100	267,800	273,400	274,900	218,200	167,200	162,900
21	235,900	237,700	241,800	246,300	254,100	261,200	268,500	273,200	273,900	216,000	167,100	163,000
22	236,000	237,600	241,900	246,600	254,300	261,600	268,600	273,400	273,700	213,000	167,200	162,800
23	236,400	237,500	242,100	246,700	254,400	261,600	268,700	273,200	272,200	210,700	167,100	162,100
24	236,300	237,900	242,200	246,700	254,700	261,900	268,500	274,300	269,300	208,600	167,300	161,900
25	236,400	238,400	242,300	246,700	255,300	262,300	268,500	274,400	267,500	207,300	167,300	161,700
26	236,000	239,000	242,500	246,900	255,200	262,600	268,800	274,400	265,500	204,600	166,700	161,600
27	235,700	239,200	242,800	247,200	255,300	263,000	269,500	275,700	263,600	202,600	167,000	161,300
28	235,700	238,600	242,600	247,400	254,900	263,300	269,600	275,900	261,600	200,700	166,800	161,200
29	235,900	238,500	242,800	247,500	-----	263,600	269,700	276,000	260,900	198,500	166,600	161,200
30	235,900	238,500	242,800	247,600	-----	263,600	269,700	276,200	258,600	196,500	166,600	161,300
31	235,900	-----	242,900	248,100	-----	263,800	-----	276,200	-----	194,500	166,500	-----
MAX	236,700	239,200	242,900	248,100	255,300	263,800	269,700	276,200	277,600	254,500	192,300	166,200
MIN	235,400	235,600	238,600	242,900	248,600	255,000	264,400	270,000	258,600	194,500	166,500	161,200
CHANGE	-600	2,600	4,400	5,200	6,800	8,900	5,900	6,500	-17,600	-64,100	-28,000	-5,200
CAL YEAR 2001			MEAN	255,574		MAX	312,000		MIN	177,000		
WTR YEAR 2002			MEAN	237,090		MAX	277,600		MIN	161,200		

# REPUBLICAN RIVER BASIN

**NAPONEE CANAL from Republican River, 00105000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	25	25	
2									0	27	23	
3									0	28	22	
4									0	25	23	
5									0	24	24	
6									0	24	24	
7									0	24	24	
8									0	26	24	
9									0	31	22	
10									0	34	20	
11									6.7	31	20	
12									0	27	20	
13									0	23	7.1	
14									0	22	0	
15									0	24	0	
16									0	27	0	
17									0	29	0	
18									0	25	0	
19									0	22	0	
20									0	20	0	
21									0	19	0	
22									0	23	0	
23									0	28	0	
24									13	27	0	
25									23	25	0	
26									28	25	0	
27									27	23	0	
28									25	22	0	
29					-----				25	24	0	
30					-----				25	24	0	
31		-----			-----		-----		-----	24	0	-----
TOTAL									172.7	782	278.1	
MEAN									5.76	25.2	8.97	
MAX									28	34	25	
MIN									0	19	0	
AC-FT									343	1,550	552	
CAL YEAR 2001	MAX	37	MIN	0	AC-FT	2,990						
WTR YEAR 2002	MAX	34	MIN	0	AC-FT	2,450						

# REPUBLICAN RIVER BASIN

**FRANKLIN CANAL from Republican River, 00053000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	257	199	
2									0	257	199	
3									0	256	200	
4									0	256	202	
5									0	251	202	
6									0	243	202	
7									0	243	198	
8									0	242	194	
9									0	237	195	
10									0	238	194	
11									0	239	194	
12									0	246	194	
13									0	250	146	
14									0	250	52	
15									0	249	0	
16									0	251	0	
17									0	254	0	
18									60	251	0	
19									101	251	0	
20									101	249	0	
21									124	248	0	
22									169	250	0	
23									192	248	0	
24									201	237	0	
25									218	230	0	
26									232	221	0	
27									234	220	0	
28									246	219	0	
29					-----				257	211	0	
30					-----				258	202	0	
31		-----			-----		-----		-----	199	0	-----
TOTAL									2,393	7,455	2,571	
MEAN									79.8	240	82.9	
MAX									258	257	202	
MIN									0	199	0	
AC-FT									4,750	14,790	5,100	
CAL YEAR 2001	MAX	255	MIN	0	AC-FT	28,550						
WTR YEAR 2002	MAX	258	MIN	0	AC-FT	24,630						



# REPUBLICAN RIVER BASIN

**FRANKLIN PUMP CANAL from Republican River, 00054000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	39	38	
2									0	38	40	
3									0	34	39	
4									0	33	37	
5									0	31	32	
6									0	31	29	
7									0	32	31	
8									0	31	36	
9									0	32	36	
10									0	36	29	
11									0	39	26	
12									0	38	9.7	
13									14	38	0	
14									0	38	0	
15									0	39	0	
16									0	34	0	
17									0	27	0	
18									0	26	0	
19									0	30	0	
20									0	30	0	
21									0	29	0	
22									0	28	0	
23									17	29	0	
24									18	36	0	
25									31	39	0	
26									29	37	0	
27									30	30	0	
28									39	26	0	
29					-----				38	26	0	
30					-----				39	28	0	
31		-----			-----		-----		-----	32	0	-----
TOTAL									255	1,016	382.7	
MEAN									8.50	32.8	12.3	
MAX									39	39	40	
MIN									0	26	0	
AC-FT									506	2,020	759	
CAL YEAR 2001	MAX	42	MIN	0	AC-FT	3,410						
WTR YEAR 2002	MAX	40	MIN	0	AC-FT	3,280						

# REPUBLICAN RIVER BASIN

## THOMPSON CREEK at Riverton, 06851500 - 2002

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 574 cubic feet per second August 25, gage height 7.04 feet; minimum daily discharge 10 cubic feet per second July 23 & 24.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	23	21	19E	18E	15E	18	21	20	15	12	17
2	16	22	21	19E	18E	14E	17	20	19	15	11	15
3	16	21	21	19E	18E	13E	18	20	19	15	12	14
4	16	20	22	20E	17E	16E	17	21	18	14	12	13
5	16	22	24	22E	16E	18E	20	23	17	14	16	13
6	14	24	22	23E	16E	20E	23	23	17	13	18	13
7	14	23	22	23E	18E	21E	24	22	17	16	14	12
8	15	21	21	24	20E	21E	23	24	16	15	11	13
9	17	21	21	24	22E	22E	24	24	16	14	16	13
10	53	21	22	24	24E	23E	23	23	16	13	13	18
11	19	22	22	23	25E	24	24	50	24	12	13	14
12	18	23	22	22	26E	25	24	25	19	13	14	15
13	18	23	22	23	26	26	22	33	16	15	15	23
14	17	24	21	22	27	26	23	23	15	16	14	19
15	21	24	22	21E	27	24	23	20	17	16	13	18
16	19	24	23	20E	26	23	22	23	17	13	13	16
17	20	25	22	20E	24	23	20	21	16	13	17	16
18	19	25	23	20E	25	24	20	20	15	12	14	16
19	19	24	23	21	25	26	21	20	14	11	14	17
20	20	22	22	21	24	27	22	20	16	11	14	16
21	20	23	22	21	24	22E	24	20	16	11	14	15
22	21	23	21E	21	26	21E	22	24	15	13	25	14
23	21	26	20E	21	27	21E	23	21	14	10	18	14
24	21	25	20E	20	27	21E	23	24	14	10	167	15
25	19	23	20E	20	25E	20E	22	22	15	12	335	14
26	19	23	19E	21	20E	19E	21	20	15	13	49	15
27	19	19	20E	21	16E	21E	22	65	14	17	21	15
28	21	19E	20E	19E	15E	20E	21	101	14	18	19	15
29	22	18E	20E	19E	-----	20	21	54	13	17	18	16
30	21	19E	20E	19E	-----	20	22	28	13	14	18	15
31	22	-----	19E	18E	-----	19	-----	22	-----	12	18	-----
TOTAL	609	672	660	650	622	655	649	877	487	423	978	459
MEAN	19.6	22.4	21.3	21.0	22.2	21.1	21.6	28.3	16.2	13.6	31.5	15.3
MAX	53	26	24	24	27	27	24	101	24	18	335	23
MIN	14	18	19	18	15	13	17	20	13	10	11	12
AC-FT	1,210	1,330	1,310	1,290	1,230	1,300	1,290	1,740	966	839	1,940	910
CAL YEAR 2001	TOTAL	12,350	MEAN	33.8	MAX	1,020	MIN	11	AC-FT	24,500		
WTR YEAR 2002	TOTAL	7,741	MEAN	21.2	MAX	335	MIN	10	AC-FT	15,350		

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

**ELM CREEK at Amboy, 06852000 - 2002**

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 198 cubic feet per second September 13, gage height 10.56 feet; minimum daily discharge 4.9 cubic feet per second August 8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	13	11E	13	12E	14	13	12	7.6	6.0	8.3E
2	11	13	13	12E	13	12E	13	13	12	9.2	6.9	8.3E
3	12	13	13	12E	13	12E	13	13	12	9.6	6.6	8.3E
4	12	14	13	12E	13	13E	13	12	12	8.6	6.5	8.3E
5	12	13	14	12E	13	14	13	14	12	6.7	6.3	8.0
6	12	13	13	12	13	14	13	16	12	7.4	5.5	7.7
7	12	13	13	12	13	14	14	14	12	8.7	5.5	7.3
8	12	13	13	12	13	14	14	14	12	9.0	4.9	7.3
9	12	13	13	12	14	14E	13	13	13	6.9	10	7.9
10	15	13	13	13	13	14	13	13	14	6.7	8.0	8.4
11	13	14	13	12	14	15	13	16	16	6.9	7.0	8.1
12	13	14	13	12	14	15	13	14	15	6.7	6.6	8.5
13	13	14	14	12	14	15	13	13	16	7.9	7.0	38
14	12	14	14E	13	14	14	13	13	16	7.3	6.6	86
15	14	14	14E	12	14	14	13	13	17	6.2	5.2	19
16	13	13	14E	12	14	13	14	13	17	5.2	5.7	12
17	12	14	14E	12	14	13	13	13	16	5.6	6.9	11
18	12	14	13E	12	15	14	14	13	15	5.8	7.6	10
19	12	13	13E	13	14	14	14	13	14	5.3	7.7	10
20	12	13	13E	12	14	13	14	13	14	5.6	7.3	9.6
21	12	13	13E	12	14	13	14	13	13	5.6	7.8	9.2
22	12	13	13E	12	14	13	14	13	12	6.9	9.9	9.4
23	12	14	13E	12	14	14	14	13	13	7.4	8.1	9.4
24	12	15	13E	12	14	14	13	20	13	6.7	9.5	9.2
25	12	14	13E	12	14	13	13	19	11	6.6	9.0	9.2
26	12	14	13E	13	12E	13	13	15	11	6.8	8.7	9.5
27	12	13	13E	13	12E	14	15	14	10	7.7	8.6	9.9
28	13	13	12	13	12E	14	13	13	8.3	7.7	8.3	9.8
29	12	13	12	13	-----	14	13	13	8.8	7.0	8.3	9.7
30	12	13	12	13	-----	13	13	12	8.5	6.5	8.3	9.3
31	13	-----	12	13	-----	14	-----	12	-----	6.5	8.3E	-----
TOTAL	381	403	405	380	378	422	402	426	387.6	218.3	228.6	386.6
MEAN	12.3	13.4	13.1	12.3	13.5	13.6	13.4	13.7	12.9	7.04	7.37	12.9
MAX	15	15	14	13	15	15	15	20	17	9.6	10	86
MIN	11	13	12	11	12	12	13	12	8.3	5.2	4.9	7.3
AC-FT	756	799	803	754	750	837	797	845	769	433	453	767
CAL YEAR 2001	TOTAL	6,182.00	MEAN	16.9	MAX	399	MIN	9.3	AC-FT	12,260		
WTR YEAR 2002	TOTAL	4,418.10	MEAN	12.1	MAX	86	MIN	4.9	AC-FT	8,760		

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

## COURTLAND CANAL from Republican River, 00031000 - 2002

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

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	99	112	409	459	60
2							0	100	104	404	450	60
3							0	96	78	398	454	60
4							0	95	71	386	464	60
5							0	182	66	359	469	60
6							0	135	57	356	465	60
7							0	118	54	378	438	60
8							87	111	47	389	432	57
9							112	102	35	395	442	52
10							108	115	36	445	439	52
11							106	144	48	429	426	55
12							105	142	54	428	344	76
13							106	154	59	456	360	189
14							105	131	61	474	342	117
15							105	122	59	479	291	83
16							99	115	59	472	248	64
17							99	106	59	476	252	57
18							93	102	60	509	260	53
19							93	101	64	516	263	52
20							102	98	105	506	229	52
21							105	97	169	499	188	52
22							108	106	192	502	180	52
23							108	140	200	501	176	51
24							97	134	272	498	171	51
25							95	132	360	499	175	51
26							106	120	390	501	179	51
27							111	156	410	513	148	51
28							110	91	421	519	118	51
29					-----		103	174	416	536	85	51
30					-----		100	108	407	542	65	51
31		-----			-----		-----	83	-----	491	60	-----
TOTAL							2,363	3,709	4,525	14,265	9,072	1,891
MEAN							78.8	120	151	460	293	63.0
MAX							112	182	421	542	469	189
MIN							0	83	35	356	60	51
AC-FT							4,690	7,360	8,980	28,290	17,990	3,750
CAL YEAR 2001	MAX	432	MIN	0	AC-FT	61,220						
WTR YEAR 2002	MAX	542	MIN	0	AC-FT	71,060						

# REPUBLICAN RIVER BASIN

**SUPERIOR CANAL from Republican River, 00137000 - 2002**

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 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	122		76
2									0	129		80
3									0	123		92
4									0	114		98
5									0	107		98
6									7.6	107		98
7									17	108		96
8									17	107		93
9									17	108		85
10									17	107		73
11									17	105		66
12									17	108		65
13									18	104		31
14									19	104		0
15									18	104		0
16									18	107		0
17									19	107		0
18									19	103		0
19									18	100		0
20									40	99		0
21									61	100		0
22									65	103		0
23									83	103		0
24									96	103		0
25									104	104		0
26									123	104		0
27									134	104		0
28									142	104		0
29					-----				150	98		0
30					-----				152	71		0
31		-----			-----		-----		-----	69		0
TOTAL									1,388.6	3,236		1,051
MEAN									46.3	104		33.9
MAX									152	129		98
MIN									0	69		0
AC-FT									2,750	6,420		2,080
CAL YEAR 2001	MAX	134	MIN	0	AC-FT	11,310						
WTR YEAR 2002	MAX	152	MIN	0	AC-FT	11,260						

# BIG BLUE RIVER BASIN

## BIG BLUE RIVER at Surprise, 06879900 - 2002

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 good, except estimated records and records below 5 cubic feet per second 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 721 cubic feet per second May 28, gage height 4.72 feet; minimum daily discharge no flow August 21, September 23 - 30.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	1.7	.87	.50E	.70E	1.0 E	1.3	1.6	3.5	2.8	2.7	.90
2	.04	1.3	.80	.40E	.71E	.93E	1.1	1.1	3.2	3.2	2.9	.57
3	.12	.98	.73	.39E	.72E	.78E	.99	.82	2.6	3.2	4.7	.34
4	.69	.79	.69	.40E	.80E	.80E	.93	.47	2.2	2.1	5.6	.32
5	.62	.65	.65	.46E	.89E	1.1 E	1.0	.31	1.9	2.1	7.5	.25
6	.71	.24	.50	.57E	.97E	1.7 E	2.2	31	2.0	1.5	4.9	.19
7	.93	.09	.50	.60E	1.1 E	1.8 E	2.3	4.8	3.3	1.5	3.9	.15
8	1.1	.15	.54	.81E	1.2 E	1.4 E	2.1	3.5	3.2	1.6	2.8	.36
9	1.4	.54	.99	1.2 E	1.4 E	1.3 E	1.5	1.9	3.0	1.8	2.6	.60
10	1.4	.76	.83	1.3 E	1.2 E	1.8 E	1.1	1.4	37	1.7	5.5	.63
11	.82	.92	.60	1.7 E	1.3 E	2.3 E	.93	149	426	2.3	7.3	.53
12	.83	.88	.58	2.0	1.2 E	4.6	.89	84	119	3.5	3.9	.33
13	1.1	.90	.58	2.1	1.7 E	4.9	.90	46	32	3.2	2.5	.88
14	1.3	.89	.55	2.1	2.0 E	4.9	1.4	29	35	3.5	2.2	.69
15	1.2	.88	.55	1.7 E	2.5	3.1	1.7	21	111	3.4	1.7	.32
16	1.3	1.0	.55	1.5 E	3.1	2.7	1.9	12	62	2.5	.98	.20
17	1.5	1.1	.67	1.4 E	2.9	2.8	1.8	6.1	34	3.3	3.2	.14
18	1.6	1.2	.73	1.1 E	3.1	2.5	1.8	3.8	23	4.0	4.1	.12
19	1.8	1.1	.72	1.0 E	3.0	2.4	1.2	2.9	15	4.2	2.6	.10
20	1.9	1.4	.82	1.1 E	2.9	2.1	.82	2.2	9.3	5.7	.32	.08
21	1.9	1.4	.90E	1.4 E	2.5	1.8	1.3	1.9	6.0	5.5	0	.04
22	2.1	1.2	.78E	1.6	2.4	1.8	1.2	2.1	4.6	8.5	1.2	.01
23	2.4	1.3	.76E	1.6	2.7 E	1.8	1.5	12	3.2	3.4	2.6	0
24	1.7	3.0	.70E	1.5	1.8 E	1.8	1.4	4.9	3.1	1.6	2.0	0
25	1.7	4.0	.60E	1.6	1.2 E	1.6	1.3	27	2.7	2.9	1.6	0
26	1.7	4.7	.60E	1.7	1.1 E	1.5	.88	18	2.5	3.8	1.3	0
27	1.9	2.7	.69E	1.8 E	.95E	1.4	2.3	159	2.3	3.7	1.3	0
28	2.3	1.6	.69E	1.1 E	1.1 E	1.6	3.1	289	2.2	1.7	1.2	0
29	2.1	1.3	.62E	.94E	-----	1.6	2.9	51	2.7	1.7	1.2	0
30	1.9	1.1	.56E	.81E	-----	1.3	2.0	19	2.4	3.3	1.3	0
31	1.9	-----	.51E	.72E	-----	1.4	-----	6.1	-----	7.5	1.3	-----
TOTAL	42.00	39.77	20.86	37.10	47.14	62.51	45.74	992.90	959.9	100.7	86.90	7.75
MEAN	1.35	1.33	.67	1.20	1.68	2.02	1.52	32.0	32.0	3.25	2.80	.26
MAX	2.4	4.7	.99	2.1	3.1	4.9	3.1	289	426	8.5	7.5	.90
MIN	.04	.09	.50	.39	.70	.78	.82	.31	1.9	1.5	0	0
AC-FT	83	79	41	74	94	124	91	1,970	1,900	200	172	15
CAL YEAR 2001	TOTAL	3,826.62	MEAN	10.5	MAX	209	MIN	0	AC-FT	7,590		
WTR YEAR 2002	TOTAL	2,443.27	MEAN	6.69	MAX	426	MIN	0	AC-FT	4,850		

E indicates estimated discharge.

# BIG BLUE RIVER BASIN

**LINCOLN CREEK near Seward, 06880000 - 2002**

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 779 cubic feet per second August 22, gage height 12.62 feet; minimum daily discharge 9.1 cubic feet per second September 22.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	15	20E	15E	21E	21E	20	24	38	14	19	12
2	12	15	21E	14E	22E	20E	20	24	34	14	17	12
3	12	15	21	14E	23E	20E	20	23	36	15	15	12
4	12	15	21	14E	23E	21E	20	23	41	16	16	11
5	12	15	21	15E	24E	23E	20	25	35	18	17	11
6	12	15	20	17E	24E	24E	20	40	32	19	16	10
7	12	15	20	15E	25E	24E	20	27	29	19	21	10
8	13	15	20	17E	26E	24E	20	27	28	19	21	10
9	13	15	20	19E	25E	24E	20	27	27	15	22	9.6
10	14	15	20	20E	22E	24E	20	25	26	16	24	10
11	14	15	20	21E	21E	25E	20	162	182	14	101	9.7
12	14	16	20	21E	22E	26	20	371	150	15	59	9.4
13	14	16	20	22E	23E	27	20	357	82	15	32	10
14	18	16	20	22E	23E	27	21	179	54	19	24	11
15	17	16	20	22E	23E	27	21	74	83	19	22	10
16	18	16	20	20E	24	25	21	55	98	17	21	9.6
17	20	16	20	18E	25	25	21	43	93	17	22	9.5
18	19	16	20	16E	25	24	22	37	54	17	26	9.6
19	17	16	20	16E	26	24	21	34	36	17	28	9.4
20	16	16	20E	16E	26	24	21	31	31	16	22	9.2
21	15	17	20	17E	25	24	22	29	27	17	34	9.4
22	15	17	20	20E	25	23	22	28	25	24	587	9.1
23	15	17	20E	20E	24E	23	22	32	23	23	158	9.2
24	15	20	19E	20E	23E	23	22	31	21	21	87	9.4
25	15	21	17E	20E	22E	22	22	61	19	19	54	9.3
26	15	20	16E	21E	21E	22	22	76	18	18	18	9.5
27	14	19E	16E	21E	21E	21	24	95	17	19	16	9.6
28	14	18E	17E	20E	22E	22	25	105	16	22	15	9.6
29	14	18E	17E	19E	-----	22	24	147	15	23	14	10
30	15	19E	16E	18E	-----	21	24	72	15	21	17	9.7
31	15	-----	15E	19E	-----	21	-----	46	-----	22	14	-----
TOTAL	453	495	597	569	656	723	637	2,330	1,385	560	1,559	299.8
MEAN	14.6	16.5	19.3	18.4	23.4	23.3	21.2	75.2	46.2	18.1	50.3	9.99
MAX	20	21	21	22	26	27	25	371	182	24	587	12
MIN	12	15	15	14	21	20	20	23	15	14	14	9.1
AC-FT	899	982	1,180	1,130	1,300	1,430	1,260	4,620	2,750	1,110	3,090	595
CAL YEAR 2001	TOTAL	11,154.00	MEAN	30.6	MAX	340	MIN	10	AC-FT	22,120		
WTR YEAR 2002	TOTAL	10,263.80	MEAN	28.1	MAX	587	MIN	9.1	AC-FT	20,360		

E indicates estimated discharge.

## BIG BLUE RIVER BASIN

## BIG BLUE RIVER at Seward, 06880500 - 2002

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 1,180 cubic feet per second May 12, gage height 9.62 feet; minimum daily discharge 7.9 cubic feet per second August 6.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	20	31E	21E	23E	26E	36	67	128	12	12	16
2	14	20	30E	22E	23E	25E	34	61	87	11	9.4	15
3	14	20	30E	24E	24E	27E	33	53	75	10	8.1	16
4	15	20	30	25E	25E	31E	33	49	79	10	10	14
5	15	21	30	25E	26E	34E	34	52	68	16	13	13
6	15	21	29	24E	29E	35E	34	79	59	21	7.9	14
7	15	22	29	24E	29E	34E	35	106	52	30	15	15
8	14	23	29	25E	28E	31E	36	109	51	27	16	14
9	15	25	28	26E	27E	30E	37	66	48	15	16	13
10	20	25	29	26E	26E	34E	39	52	52	13	22	15
11	18	22	27	25E	27E	40E	41	236	171	10	100	15
12	19	21	27	24E	29E	44E	41	926	519	14	93	13
13	19	20	27E	25E	31E	48	43	785	499	14	44	14
14	23	19	27E	25E	32E	55	41	320	250	18	25	15
15	24	19	26E	25E	33E	64	40	157	192	22	17	14
16	23	18	26	24E	34	59	38	114	179	16	15	13
17	27	21	26E	23E	35	52	40	94	208	15	18	12
18	25	22	26E	22E	37	49	40	79	147	14	27	11
19	23	20	27E	23E	41	47	39	69	103	16	44	11
20	21	20	26E	24E	43	44	39	61	84	11	30	11
21	18	20	26E	24E	42E	43	43	55	72	15	26	11
22	18	21	24E	23E	41E	40	43	49	60	32	770	10
23	19	22	22E	23E	41E	37	43	54	54	31	232	10
24	21	26E	22E	23E	36E	35	44	56	42	26	179	10
25	21	28E	22E	23E	33E	37	44	89	31	19	132	9.8
26	22	30E	21E	23E	31E	33	43	124	29	18	42	9.8
27	22	31E	21E	23E	31E	33	51	153	23	19	31	10
28	21	31E	21E	22E	32E	40	53	296	22	25	26	9.8
29	20	31E	22E	22E	-----	39	60	662	19	23	21	11
30	19	31E	21E	22E	-----	38	75	451	17	15	27	11
31	19	-----	21E	22E	-----	37	-----	285	-----	16	21	-----
TOTAL	593	690	803	732	889	1,221	1,252	5,809	3,420	554	2,049.4	376.4
MEAN	19.1	23.0	25.9	23.6	31.8	39.4	41.7	187	114	17.9	66.1	12.5
MAX	27	31	31	26	43	64	75	926	519	32	770	16
MIN	14	18	21	21	23	25	33	49	17	10	7.9	9.8
AC-FT	1,180	1,370	1,590	1,450	1,760	2,420	2,480	11,520	6,780	1,100	4,060	747
CAL YEAR 2001	TOTAL	23,678.40	MEAN	64.9	MAX	740	MIN	4.1	AC-FT	46,970		
WTR YEAR 2002	TOTAL	18,388.80	MEAN	50.4	MAX	926	MIN	7.9	AC-FT	36,470		

E indicates estimated discharge.



# BIG BLUE RIVER BASIN

**TURKEY CREEK near Wilber, 06881200 - 2002**

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 649 cubic feet per second May 6, gage height 8.58 feet; minimum daily discharge 0.44 cubic feet per second September 7.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	6.4	11 E	7.6E	10 E	11E	19	35	99	2.2	.65	1.4
2	19	7.3	12	7.2E	9.0E	10E	18	29	131	2.0	.70	.95
3	15	6.9	12	7.2E	7.4E	10E	18	27	70	2.0	.67	.72
4	13	7.2	12	7.0E	6.8E	12E	18	25	43	1.9	.53	.60
5	12	6.5	12	7.2E	6.2E	14E	18	25	32	2.6	.56	.48
6	11	6.6	12	7.2E	6.4E	17E	17	321	27	2.2	.82	.46
7	10	6.6	12	7.0E	7.2E	19E	17	127	24	9.6	.77	.44
8	8.1	6.9	12	7.6E	8.2E	16E	17	109	22	7.5	.48	.48
9	7.3	7.0	12	8.8E	9.2E	12E	18	185	21	3.2	.69	.51
10	6.9	7.4	12	9.8E	10 E	11E	18	75	20	2.1	.86	.51
11	7.2	8.1	11	10 E	10 E	11E	18	83	19	2.5	.61	.52
12	11	8.2	11	11 E	10 E	11E	17	51	19	2.0	.56	.55
13	12	8.4	12	11 E	10 E	12E	17	45	19	2.1	.79	.77
14	9.1	8.7	12	10 E	10 E	12E	17	35	19	1.2	.76	.96
15	7.7	9.1	12	10 E	11 E	13E	17	38	18	1.2	.69	11
16	6.5	9.8	12	9.4E	11 E	14E	17	35	18	1.1	.70	2.8
17	6.0	9.4	11	9.2E	12 E	14E	17	31	17 E	.97	1.4	1.5
18	6.0	9.3	11	8.4E	12 E	14E	17	27	15 E	.95	.89	1.1
19	5.5	8.9	10 E	8.2E	12 E	14E	17	25	14 E	.93	.83	1.9
20	5.5	8.7	9.0E	8.8E	13 E	14E	17	24	12 E	1.1	.75	.83
21	5.9	8.8	9.6E	10 E	13 E	13E	18	23	10 E	1.1	.70	.64
22	7.8	8.9	10 E	12 E	12 E	12E	19	23	9.0E	.93	1.1	.58
23	9.1	10	10 E	12 E	12 E	13E	21	25	7.8E	.74	185	.62
24	7.6	13	10 E	11 E	13 E	14E	20	28	6.6E	.74	135	.58
25	6.2	16	8.8E	11 E	13 E	14E	20	65	5.4	.67	88	.58
26	5.4	16 E	8.0E	11 E	12 E	16E	20	126	5.3	1.5	7.4	.57
27	7.9	15 E	8.0E	12 E	11 E	18E	27	267	6.1	1.1	2.1	.60
28	7.7	13 E	8.4E	12 E	11 E	19	32	262	5.2	.79	17	.56
29	6.9	12 E	8.0E	12 E	-----	19	46	448	3.9	.67	9.2	.51
30	7.5	12 E	7.8E	12 E	-----	20	33	392	3.0	.64	4.3	.51
31	7.4	-----	7.6E	11 E	-----	20	-----	160	-----	.53	2.1	-----
TOTAL	282.2	282.1	326.2	298.6	288.4	439	605	3,171	721.3	58.76	466.61	129.27
MEAN	9.10	9.40	10.5	9.63	10.3	14.2	20.2	102	24.0	1.90	15.1	4.31
MAX	24	16	12	12	13	20	46	448	131	9.6	185	96
MIN	5.4	6.4	7.6	7.0	6.2	10	17	23	3.0	.53	.48	.44
AC-FT	560	560	647	592	572	871	1,200	6,290	1,430	117	926	256
CAL YEAR 2001 TOTAL		38,445.00	MEAN	105	MAX	2,700	MIN	2.0	AC-FT	76,260		
WTR YEAR 2002 TOTAL		7,068.44	MEAN	19.4	MAX	448	MIN	.44	AC-FT	14,020		

E indicates estimated discharge.

# BIG BLUE RIVER BASIN

## BIG BLUE RIVER at Beatrice, 06881500 - 2002

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 8,870 cubic feet per second May 28, gage height 15.51 feet; minimum daily discharge 85 cubic feet per second July 3.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	344	207	240	180E	100E	160E	280	322	1,660	99	107	202
2	299	209	239	175E	105E	155E	278	322	1,290	91	108	175
3	271	205	222	175E	105E	155E	277	331	1,030	85	106	163
4	279	205	197	175E	110E	170E	267	309	762	92	101	149
5	263	206	204	175E	120E	250E	263	288	606	92	101	131
6	254	204	215	180E	130E	260E	260	355	517	95	101	129
7	235	208	211	175E	140E	260E	255	1,190	456	204	103	124
8	223	206	216	190E	150E	260E	288	928	417	198	104	113
9	225	205	210	200E	175E	250E	282	877	385	152	108	105
10	229	209	208	200E	180E	250E	262	733	352	160	103	108
11	222	205	208	205E	200E	260E	267	587	337	132	101	106
12	235	200	215	210E	210E	270E	263	1,230	335	105	102	105
13	370	202	224	205E	245E	290	262	1,330	327	96	236	127
14	342	208	235	200E	244	327	256	2,200	743	96	303	130
15	324	204	224	200E	262	314	246	1,790	950	94	255	388
16	348	208	231	200E	268	309	241	1,170	652	94	187	328
17	278	211	241	190E	267	301	238	851	552	95	230	180
18	263	206	240	190E	255	300	233	652	482	92	281	137
19	261	202	241	195E	263	306	247	522	448	93	204	131
20	251	200	235	200E	268	280E	263	440	404	94	178	122
21	240	199	231	230E	265	270E	277	389	339	95	187	118
22	231	201	242	225	263	260E	272	354	293	102	214	111
23	223	208	235E	238	257	270E	255	393	248	101	370	112
24	225	243	210E	222	266	270E	262	474	212	100	2,160	107
25	222	264	195E	216	260E	260E	265	2,020	172	97	1,610	96
26	217	269	190E	227	200E	285E	262	1,280	137	158	789	106
27	210	268	190E	220E	175E	285	296	2,130	129	209	555	102
28	205	260	195E	220E	180E	285	327	6,420	118	147	374	97
29	206	252	195E	220E	-----	294	350	4,920	108	126	272	91
30	200	244	190E	175E	-----	292	341	2,930	103	104	257	88
31	203	-----	180E	100E	-----	290	-----	2,480	-----	106	228	-----
TOTAL	7,898	6,518	6,709	6,113	5,663	8,188	8,135	40,217	14,564	3,604	10,135	4,181
MEAN	255	217	216	197	202	264	271	1,297	485	116	327	139
MAX	370	269	242	238	268	327	350	6,420	1,660	209	2,160	388
MIN	200	199	180	100	100	155	233	288	103	85	101	88
AC-FT	15,670	12,930	13,310	12,130	11,230	16,240	16,140	79,770	28,890	7,150	20,100	8,290
CAL YEAR 2001	TOTAL	299,365	MEAN	820	MAX	10,600	MIN	135	AC-FT	593,800		
WTR YEAR 2002	TOTAL	121,925	MEAN	334	MAX	6,420	MIN	85	AC-FT	241,800		

E indicates estimated discharge.

# LITTLE BLUE RIVER BASIN

## BIG SANDY CREEK at Alexandria, 06883940 - 2002

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 poor.

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 606 cubic feet per second May 28, gage height 5.13 feet; minimum daily discharge 13 cubic feet per second August 6, 7, September 5-10, 18, 19, 21, 22, 25.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2001 TO SEP 2002

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	21	20	21	21	18E	25	18	89	18	138	15
2	35	21	19	20	22	17E	26	18	61	22	75	14
3	31	20	21	21	21	19E	26	18	44	25	46	14
4	28	20	20	20	21	22	26	17	39	27	30	14
5	25	20	19	20	21	20	25	17	33	28	19	13
6	24	19	21	20	21	20	26	70	31	31	13	13
7	21	22	21	20	20	20	25	109	29	30	13	13
8	20	23	21	20	20	20	27	93	28	51	17	13
9	21	22	21	20	21	21	24	44	26	42	22	13
10	21	22	21	19	20	19	23	34	25	29	28	13
11	21	21	20	20	20	19	23	42	24	29	22	14
12	22	21	19	20	20	19	23	33	153	29	18	15
13	26	20	19	20	20	19	22	23	134	36	18	19
14	20	20	18	20	20	20	21	21	56	43	17	40
15	25	20	17	20	20	19	20	20	54	43	23	32
16	22	20	17	20	21	19	20	20	40	40	26	17
17	23	20	19	20	21	20	21	24	32	37	50	15
18	33	21	19	20	20	20	20	25	27	35	41	13
19	27	21	19	20	21	20	22	22	24	38	102	13
20	23	22	19	21	20	20	22	20	23	38	32	14
21	22	21	19	21	20	21	24	20	22	35	16	13
22	21	23	19	21	20	21	22	20	21	39	14	13
23	21	24	19	21	19	21	22	22	20	36	142	14
24	20	26	19	21	20	21	21	28	20	36	387	14
25	20	26	19	21	20	21	20	99	19	39	289	13
26	23	21	19	20	19E	21	20	45	18	57	172	15
27	23	19	18	20	19E	22	30	72	19	60	95	15
28	21	19	19	22	18E	21	23	272	18	79	49	17
29	21	20	19	21	-----	22	19	127	17	219	29	17
30	21	21	20	21	-----	24	18	102	16	324	20	17
31	21	-----	20	22	-----	25	-----	90	-----	209	17	-----
TOTAL	738	636	600	633	566	631	686	1,585	1,162	1,804	1,980	475
MEAN	23.8	21.2	19.4	20.4	20.2	20.4	22.9	51.1	38.7	58.2	63.9	15.8
MAX	36	26	21	22	22	25	30	272	153	324	387	40
MIN	20	19	17	19	18	17	18	17	16	18	13	13
AC-FT	1,460	1,260	1,190	1,260	1,120	1,250	1,360	3,140	2,300	3,580	3,930	942
CAL YEAR 2001 TOTAL		47,993	MEAN	131	MAX	3,280	MIN	12	AC-FT	95,190		
WTR YEAR 2002 TOTAL		11,496	MEAN	31.5	MAX	387	MIN	13	AC-FT	22,800		

E indicates estimated discharge.

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