

**STATE OF NEBRASKA**

**DEPARTMENT OF NATURAL  
RESOURCES**

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

**2004**

**Prepared Under the Direction of Ann Bleed, Acting Director  
Department of Natural Resources**

**2004**

**HYDROGRAPHIC REPORT**

**STATE OF NEBRASKA**

**DEPARTMENT OF NATURAL RESOURCES**

**2004**

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## 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 Director, U. S. Geological Survey, Nebraska Water Science Center, 5231 South 19<sup>th</sup> Street, Lincoln, Nebraska 68512-1271. These data are not published in this report.

The Hydrographic Report for water year 2004 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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**WHITE RIVER at Crawford, 06444000 - 2004**

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

DRAINAGE AREA.--313 square miles.

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 48 cubic feet per second September 5, gage height 2.92 feet; minimum daily discharge 9.3 cubic feet per second August 9.

**DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	20	23	22E	25	25	23	23	18	22	14	11
2	18	20	24	21E	24	26	23	22	18	19	12	9.7
3	17	24	23	21E	23	25	23	22	18	23	12	10
4	17	23	23	21	23	26	24	23	18	18	14	15
5	17	23	22	21	23	27	23	22	17	19	14	35
6	17	22	23	21	24	26	23	21	16	18	13	28
7	16	22	24	21	25E	26	23	21	14	16	11	21
8	15	23	24	22E	25E	28	23	20	13	15	10	19
9	15	23	24	23	25E	31	23	20	16	17	9.3	18
10	15	23	23	23	25E	31	23	20	19	23	11	17
11	16	24	23	24	23E	27	22	21	19	19	13	17
12	16	23	23	23	24E	27	23	23	18	17	12	16
13	17	22	24E	23	25E	27	23	23	16	15	12	15
14	18	23	24	23	25E	26	23	22	15	24	12	16
15	18	23	24	23	25E	26	22	22	13	18	12	18
16	18	23	23	23	25	26	22	21	13	14	11	17
17	18	23	23	23	25	26	21	22	17	14	10	16
18	16	22	23	23	25	26	21	23	20	14	9.7	16
19	17	22	22	23	27	26	22	23	22	12	11	15
20	18	22	23	24	26	25	23	20	21	15	11	15
21	18	22	23	24	25	24	23	20	20	21	11	21
22	18	23	24	24E	25	25	25	21	19	16	9.5	22
23	18	21	23	24E	25	25	26	22	17	20	9.8	20
24	18	23	22	24E	24	25	23	21	15	22	9.4	19
25	18	23	23	24E	25	25	22	20	16	20	10	18
26	19	23	23	23	25	25	21	20	16	18	10	17
27	19	23	23	24E	25	25	21	19	18	14	12	18
28	19	22	23	25E	25	24	21	20	18	11	13	18
29	19	23	21	25E	27	24	22	19	17	12	12	18
30	20	24	23	24E	-----	23	23	19	17	17	11	18
31	20	-----	22E	24E	-----	24	-----	19	-----	16	10	-----
TOTAL	544	677	715	713	718	802	680	654	514	539	351.7	533.7
MEAN	17.5	22.6	23.1	23.0	24.8	25.9	22.7	21.1	17.1	17.4	11.3	17.8
MAX	20	24	24	25	27	31	26	23	22	24	14	35
MIN	15	20	21	21	23	23	21	19	13	11	9.3	9.7
AC-FT	1,080	1,340	1,420	1,410	1,420	1,590	1,350	1,300	1,020	1,070	698	1,060
CAL YEAR 2003	TOTAL	7,890.10	MEAN	21.6	MAX	140	MIN	8.4	AC-FT	15,650		
WTR YEAR 2004	TOTAL	7,441.40	MEAN	20.3	MAX	35	MIN	9.3	AC-FT	14,760		

E indicates estimated discharge.

# WHITE RIVER BASIN

## WHITNEY RESERVOIR from White River, 00410000 - 2004

LOCATION.--NW1/4SE1/4 Sec. 34-33-51 W. near Whitney

GAGE.--Staff gage

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

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

### DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

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				8,354								
15												
16												
17												
18		6,370										
19												
20											5,100	
21												
22												
23												
24												
25						10,799						
26					10,565					6,220		
27												
28												
29							10,790					
30					-----							
31		-----			-----		-----		-----			-----

**NIOBRARA RIVER at Wyoming-Nebraska State Line, 06454000 - 2004**

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

DRAINAGE AREA.--Approximately 455 square miles.

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

PERIOD OF RECORD.--1955 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 21 cubic feet per second September 5, gage height 3.61 feet; maximum gage height 4.59 feet March 2 due to backwater from snow in channel; minimum daily discharge 0.57 cubic feet per second September 2.

**DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.6E	2.6E	2.8E	3.0	2.5E	3.2	3.1	2.7	1.3	1.5	.75
2	2.7E	2.6E	2.6E	2.8E	2.9	2.0E	3.2	2.9	2.7	1.3	1.6	.57
3	2.6E	2.6E	2.6E	2.8E	2.8	2.2E	3.1	3.0	2.6	1.3	1.7	.74
4	2.5E	2.6E	2.6E	2.8E	2.8	3.0E	3.4	3.0	2.7	1.4	1.6	1.2
5	2.4E	2.6E	2.6E	2.8E	2.8	4.0E	3.5	2.8	1.7	1.7	1.6	11
6	2.4E	2.6E	2.6E	2.8E	3.4	4.0E	3.5	2.5	2.1	1.6	1.5	5.9
7	2.4E	2.6E	2.6E	2.8E	3.3	4.8	3.5	2.5	1.9	1.6	1.4	2.5
8	2.4E	2.6E	2.6E	2.8E	3.6	3.6	3.4	2.5	2.4	1.6	1.3	2.2
9	2.4E	2.6E	2.6E	2.8E	3.3	3.3	3.5	2.5	2.1	2.0	1.3	1.6
10	2.4E	2.6E	2.6E	2.8E	2.9	4.8	3.3	2.5	2.5	2.8	1.3	1.5
11	2.4E	2.6E	2.6E	2.8E	2.7	5.5	3.4	2.7	1.8	2.9	1.6	1.5
12	2.4E	2.6E	2.6E	2.8E	2.7	4.8	3.6	3.3	1.4	2.7	1.5	1.4
13	2.4E	2.6E	2.6E	2.8E	2.9	5.0	3.4	3.2	1.3	3.1	1.6	1.4
14	2.4E	2.6E	2.6E	2.8E	2.5	4.0	3.1	3.1	1.2	6.4	1.5	1.5
15	2.4E	2.6E	2.6E	2.7E	2.5	4.0	2.8	3.0	1.1	4.7	1.4	1.7
16	2.4E	2.6E	2.6E	2.7	2.8	3.9	2.6	2.7	1.2	3.0	1.1	1.6
17	2.4E	2.6E	2.6E	2.7	3.0	4.0	2.5	2.7	1.4	2.2	1.1	1.7
18	2.4E	2.6E	2.6E	2.8	4.0	3.8	2.7	3.2	1.9	1.6	1.5	1.4
19	2.4E	2.6E	2.7E	2.9	3.5	3.9	2.7	3.0	2.4	1.3	1.6	1.4
20	2.4E	2.6E	2.7E	3.1	3.0	3.7	3.1	2.7	2.0	1.4	1.2	1.6
21	2.4E	2.6E	2.7E	3.0	3.0	3.6	2.9	2.7	1.7	1.7	2.1	2.4
22	2.4E	2.6E	2.7E	2.9	3.1	3.8	3.5	2.7	1.3	1.2	1.4	2.7
23	2.4E	2.6E	2.7E	3.0	3.2	3.9	3.4	2.9	1.1	1.9	1.8	2.2
24	2.4E	2.6E	2.7E	3.0	3.7	4.1	3.1	3.0	1.1	2.6	1.4	2.0
25	2.4E	2.6E	2.7E	3.1	3.3	4.1	3.0	2.8	1.2	2.8	.94	2.1
26	2.5E	2.6E	2.7E	3.0	3.2	4.8	2.8	2.8	1.2	1.9	1.2	2.0
27	2.5E	2.6E	2.7E	2.9	3.3	3.9	2.7	2.7	1.4	1.7	1.6	2.0
28	2.5E	2.6E	2.7E	2.8	3.3	3.2	2.8	2.6	1.2	1.8	1.3	2.1
29	2.5E	2.6E	2.8E	2.8	2.8E	3.0	2.8	2.6	1.2	2.2	1.2	2.1
30	2.5E	2.6E	2.8E	2.8	-----	3.0	3.1	2.6	1.2	2.1	.83	2.3
31	2.5E	-----	2.8E	3.0	-----	3.2	-----	2.7	-----	1.7	.83	-----
TOTAL	76.1	78.0	82.2	88.4	89.3	117.4	93.6	87.0	51.7	67.5	43.50	65.06
MEAN	2.45	2.60	2.65	2.85	3.08	3.79	3.12	2.81	1.72	2.18	1.40	2.17
MAX	2.9	2.6	2.8	3.1	4.0	5.5	3.6	3.3	2.7	6.4	2.1	11
MIN	2.4	2.6	2.6	2.7	2.5	2.0	2.5	2.5	1.1	1.2	.83	.57
AC-FT	151	155	163	175	177	233	186	173	103	134	86	129
CAL YEAR 2003 TOTAL		1,122.00	MEAN	3.07	MAX	6.8	MIN	1.3	AC-FT	2,230		
WTR YEAR 2004 TOTAL		939.76	MEAN	2.57	MAX	11	MIN	.57	AC-FT	1,860		

E indicates estimated discharge.

# NIOBRARA RIVER BASIN

## JOHNSON CANAL from Niobrara River, 00072000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7							0	0	.26	0	0
2	1.4 E							0	0	.25	0	0
3	1.1 E							0	0	.24	0	0
4	.83E							0	0	.22	0	0
5	.55E							0	0	.22	0	2.3
6	.28E						0	0	0	.21	0	2.3
7	0						0	0	0	.19	0	2.2
8							0	0	0	.20	0	2.6
9							0	0	0	.21	0	2.9
10							0	0	0	.19	0	2.5
11							0	0	0	.22	0	2.0
12							0	0	0	.21	0	1.4
13							0	0	0	.22	0	1.1
14							0	0	0	.49	0	1.1
15							0	0	0	.28	0	1.2
16							0	0	0	0	0	1.2
17							0	0	.10	0	0	1.3
18							0	0	.56	0	0	1.3
19							0	0	.67	0	0	1.3
20							0	0	.63	0	0	1.2
21							0	0	.53	0	0	2.0
22							0	0	.61	0	0	2.3
23							0	0	.55	0	0	2.2
24							0	0	.42	0	0	2.2
25							0	0	.44	0	0	2.4
26							0	0	.39	0	0	2.3
27							0	0	.43	0	0	2.3
28							0	0	.38	0	0	2.2
29							0	0	.32	0	0	2.2
30					-----		0	0	.29	0	0	2.2
31		-----			-----		-----	0	-----	0	0	-----
TOTAL	5.86						0	0	6.32	3.61	0	50.2
MEAN	.84						0	0	.21	.12	0	1.67
MAX	1.7						0	0	.67	.49	0	2.9
MIN	0						0	0	0	0	0	0
AC-FT	12						0	0	13	7.2	0	100
CAL YEAR 2003	MAX	5.2	MIN	0	AC-FT	253						
WTR YEAR 2004	MAX	2.9	MIN	0	AC-FT	131						

E indicates estimated discharge.

## LAKOTAH CANAL from Niobrara River, 00079000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								2.0	.79	0	0	0
2								1.9	.76	0	0	0
3								1.8	.67	0	0	0
4								1.8	.61	0	0	0
5								1.7	.52	0	0	0
6							3.0E	1.5	.45	0	0	0
7							3.0	1.4	.37	0	0	0
8							3.1	1.3	.31	0	0	0
9							2.4	1.2	.31	0	0	0
10							2.6	.98	.33	0	0	0
11							2.7	.85	.31	0	0	0
12							2.8	.93	.25	0	0	0
13							2.9	1.1	.22	0	0	0
14							2.8	1.2	.22	0	0	0
15							2.6	1.3	.21	0	0	0
16							2.4	1.3	.20	0	0	0
17							2.1	1.3	.21	0	0	0
18							2.0	1.4	.22	0	0	0
19							1.9	1.3	.14	0	0	0
20							2.0	1.2	.13	0	0	0
21							2.3	1.2	.11	0	0	0
22							2.6	1.1	.09	0	0	0
23							2.7	1.1	.08	0	0	0
24							2.7	1.2	.05	1.2	0	0
25							2.5	1.2	0	1.6	0	0
26							2.5	1.1	.04	1.7	0	0
27							2.4	.92	.08	.72	0	0
28							2.2	.77	.07	0	0	0
29							2.1	.70	.02	.06	0	0
30					-----		2.1	.62	0	.09	0	0
31		-----			-----		-----	.61	-----	.03	0	-----
TOTAL							62.4	37.98	7.77	5.40	0	0
MEAN							2.50	1.23	.26	.17	0	0
MAX							3.1	2.0	.79	1.7	0	0
MIN							1.9	.61	0	0	0	0
AC-FT							124	75	15	11	0	0
CAL YEAR 2003 MAX		5.5	MIN	0	AC-FT	368						
WTR YEAR 2004 MAX		3.1	MIN	0	AC-FT	225						

E indicates estimated discharge.

# NIOBRARA RIVER BASIN

**EARNEST CANAL (SOUTH) from Niobrara River, 00038100 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	.51	0	0	0
2								1.6	1.8	0	0	0
3								2.5	2.7	0	0	0
4								2.5	3.2	0	0	0
5								2.4	3.4	0	0	.96
6								2.5	3.5	0	0	1.8
7								2.3	3.5	0	0	1.9
8								2.4	3.3	0	0	1.8
9								1.9	2.5	0	0	1.7
10								1.4	2.1	0	0	1.4
11								1.2	1.9	0	0	1.1
12								1.3	1.7	0	0	.98
13							1.2	1.3	1.7	0	0	1.1
14							4.5	1.7	1.7	0	0	1.6
15							5.3	1.8	1.6	0	0	1.9
16							4.4	1.0	1.5	0	0	1.6
17							4.2	1.4	1.5	0	0	1.5
18							3.3	1.9	1.7	0	0	1.4
19							1.7	1.8	2.1	0	0	1.6
20							.62	1.8	2.5	0	0	1.5
21							.31	1.7	2.9	0	0	2.0
22							1.1	1.5	3.1	0	0	2.2
23							1.6	.13	3.1	0	0	2.3
24							1.8	0	3.0	0	0	2.5
25							.27	0	2.8	0	0	2.7
26							0	0	2.8	0	0	2.8
27							0	0	3.0	0	0	2.6
28							0	0	2.9	0	0	2.0
29							0	0	2.1	0	0	.74
30					-----		0	0	0	0	0	.32
31		-----			-----		-----	0	-----	0	0	-----
TOTAL							30.30	38.03	70.11	0	0	44.00
MEAN							1.68	1.23	2.34	0	0	1.47
MAX							5.3	2.5	3.5	0	0	2.8
MIN							0	0	0	0	0	0
AC-FT							60	75	139	0	0	87
CAL YEAR 2003	MAX	4.4	MIN	0	AC-FT	399						
WTR YEAR 2004	MAX	5.3	MIN	0	AC-FT	362						

**EARNEST CANAL (NORTH) from Niobrara River, 00038200 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0							3.5	.30	0	.34	0
2	0							3.2	0	0	.35	0
3	0							2.8	0	0	.42	0
4	0							2.7	0	0	.26	0
5	0							2.8	0	0	.90	.07
6	0							2.8	0	0	1.5	.15
7	0							2.8	0	0	1.6	0
8								2.5	0	0	1.8	0
9								3.0	0	0	1.5	0
10								3.0	0	0	1.2	0
11								2.9	0	0	.01	0
12								3.1	0	0	.90	0
13							0	3.2	0	0	.88	0
14							0	3.3	0	0	.77	0
15							.85	3.4	0	0	.69	0
16							2.3	3.4	0	0	.98	0
17							2.2	3.5	0	0	.59	0
18							2.1	3.4	0	0	.54	0
19							1.9	3.4	0	0	.14	0
20							4.3	3.3	0	0	.07	0
21							5.7	3.3	0	0	.01	0
22							5.5	3.5	0	0	0	0
23							5.3	3.7	0	0	0	0
24							5.1	3.9	0	0	0	0
25							4.9	2.6	0	0	.54	0
26							4.5	2.5	0	0	.43	0
27							4.3	2.6	0	0	0	0
28							4.1	2.6	0	0	0	0
29							3.9	2.4	0	0	0	0
30					-----		3.7	1.5	0	.01	0	.15
31		-----			-----		-----	1.0	-----	.24	0	-----
TOTAL	0						60.65	91.6	0.30	0.25	16.42	0.37
MEAN	0						3.37	2.95	.010	.008	.53	.012
MAX	0						5.7	3.9	.30	.24	1.8	.15
MIN	0						0	1.0	0	0	0	0
AC-FT	0						120	182	.6	.5	33	.7
CAL YEAR 2003	MAX	5.0	MIN	0	AC-FT	292						
WTR YEAR 2004	MAX	5.7	MIN	0	AC-FT	336						

# NIOBRARA RIVER BASIN

## McGINLEY-STOVER CANAL from Niobrara River, 00084000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								4.2	1.6	0	1.5	0
2								4.2	2.0	0	.67	0
3								3.9	1.8	0	0	0
4								3.6	1.6	0	0	0
5								3.4	1.5	0	0	0
6								2.9	1.3	0	0	0
7								2.7	0	0	0	0
8								2.6	0	0	0	0
9								2.4	0	0	0	0
10								2.3	0	.20	0	0
11								2.2	0	1.6	0	0
12								2.2	0	1.4	0	0
13							6.0E	2.2	0	1.4	0	0
14							4.8	2.2	0	.91	0	0
15							4.2	2.2	0	0	0	0
16							4.3	2.1	.27	0	0	0
17							4.0	2.1	1.4	0	0	0
18							4.0	.84	1.9	0	0	0
19							4.3	0	2.0	0	0	0
20							4.2	0	1.9	0	0	0
21							4.0	0	1.9	0	0	0
22							4.1	0	1.7	.97	0	0
23							3.9	0	1.5	1.6	0	0
24							3.9	.52	1.4	1.8	0	0
25							5.0	1.6	1.3	1.9	0	0
26							4.9	1.6	1.7	1.8	0	0
27							4.6	1.6	1.9	1.7	0	0
28							4.8	1.6	.84	1.7	0	0
29							4.7	1.5	0	1.7	0	0
30					-----		4.4	1.5	0	1.7	0	0
31		-----			-----		-----	1.5	-----	1.6	0	-----
TOTAL							80.1	59.66	29.51	21.98	2.17	0
MEAN							4.45	1.92	.98	.71	.070	0
MAX							6.0	4.2	2.0	1.9	1.5	0
MIN							3.9	0	0	0	0	0
AC-FT							159	118	59	44	4.3	0
CAL YEAR 2003 MAX		5.0	MIN	0	AC-FT	248						
WTR YEAR 2004 MAX		6.0	MIN	0	AC-FT	384						

E indicates estimated discharge.



**COOK CANAL NO. 1 from Niobrara River, 00029000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	0	0	0
2								0	0	0	0	0
3								0	0	0	0	0
4								0	0	0	0	0
5								0	0	0	0	.44
6								0	0	0	0	.47
7								0	0	0	0	.32
8								0	0	0	0	.17
9								0	0	0	0	.14
10								0	0	0	0	.10
11								0	0	0	0	.08
12								0	0	0	0	.05
13							0	0	0	0	0	0
14							0	0	0	0	0	0
15							0	0	0	0	0	0
16							0	0	0	0	0	0
17							0	0	0	0	0	0
18							0	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							0	0	0	0	0	0
30					-----		0	0	0	0	0	0
31		-----			-----		-----	0	-----	0	0	-----
TOTAL							0	0	0	0	0	1.77
MEAN							0	0	0	0	0	.084
MAX							0	0	0	0	0	.47
MIN							0	0	0	0	0	0
AC-FT							0	0	0	0	0	3.5
CAL YEAR 2003	MAX	1.7	MIN	0	AC-FT	65						
WTR YEAR 2004	MAX	.47	MIN	0	AC-FT	3.5						

# NIOBRARA RIVER BASIN

## HARRIS-NEECE CANAL from Niobrara River, 00062000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1								7.5	5.9	7.2	5.6	5.3	
2								7.7	5.6	7.1	5.2	5.2	
3								7.5	6.0	7.0	5.0	5.2	
4								7.6	6.2	7.3	4.8	5.4	
5								6.5	6.1	7.7	4.7	8.1	
6								6.8	5.5	7.3	4.9	6.7	
7								6.3	4.3	7.1	4.8	0	
8								6.9	3.9	6.9	4.5	0	
9								6.5	3.8	6.8	4.5	0	
10								6.4	4.8	6.7	4.5	0	
11								6.5	5.3	6.7	4.7	0	
12								6.6	5.3	6.4	4.8	0	
13								4.2E	7.0	5.9	6.3	0	
14								8.2	7.3	5.9	2.4	0	
15								11	7.3	6.8	0	4.7	0
16								11	7.2	6.4	0	4.6	0
17								11	7.3	5.7	0	4.7	0
18								9.1	8.1	1.9	0	5.3	0
19								8.3	8.0	0	3.5	5.6	0
20								8.0	6.9	0	6.6	5.6	0
21								7.7	7.1	0	6.3	5.5	0
22								8.7	6.3	0	6.2	5.5	0
23								9.5	5.6	3.8	6.5	5.5	0
24								10	5.5	6.2	6.8	5.5	0
25								11	6.0	5.8	6.8	5.3	0
26								9.9	7.6	5.7	6.6	5.3	0
27								9.1	7.1	6.4	6.4	5.4	0
28								8.7	7.0	7.1	6.2	5.4	0
29								8.0	6.2	7.4	5.9	5.4	0
30					-----			7.7	5.7	7.2	5.8	5.4	0
31		-----			-----			5.7	-----	5.8	5.4	-----	0
TOTAL								161.1	211.7	144.9	172.3	157.6	35.9
MEAN								8.95	6.83	4.83	5.56	5.08	1.71
MAX								11	8.1	7.4	7.7	5.6	8.1
MIN								4.2	5.5	0	0	4.5	0
AC-FT								320	420	287	342	313	71
CAL YEAR 2003	MAX	12	MIN	0	AC-FT	1,380							
WTR YEAR 2004	MAX	11	MIN	0	AC-FT	1,750							

E indicates estimated discharge.

**LABELLE CANAL from Niobrara River, 00078000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0 E	3.6	0	0	0	1.6
2							0 E	3.6	0	0	0	1.5
3							0 E	3.8	0	0	0	1.1
4							0 E	3.8	0	0	0	1.1
5							0 E	3.6	0	0	0	2.5
6							0 E	3.4	0	0	0	3.6
7							6.1E	3.4	0	0	0	2.9
8							6.1	2.3	0	0	0	3.3
9							6.2	.74	0	0	0	3.3
10							6.0	.67	0	0	0	3.3
11							5.9	.24	0	0	0	3.3
12							6.3	0	0	0	0	3.3
13							6.2	0	0	0	0	3.2
14							5.7	0	0	0	0	3.1
15							5.2	0	0	0	0	3.1
16							5.2	0	0	0	0	2.8
17							4.4	0	0	0	0	2.9
18							3.5	0	0	0	0	2.7
19							3.3	0	0	0	0	2.7
20							3.6	0	0	0	0	2.6
21							3.2	0	0	0	0	2.7
22							3.5	0	0	0	0	2.8
23							3.2	0	0	0	0	2.7
24							2.8	0	0	0	0	2.7
25							2.8	0	0	0	0	2.7
26							2.8	0	0	0	0	2.7
27							2.9	0	0	0	0	2.7
28							3.3	0	0	0	0	2.6
29							3.4	0	0	0	0	2.6
30					-----		3.5	0	0	0	.45	2.7
31		-----			-----		-----	0	-----	0	1.4	-----
TOTAL							105.1	29.15	0	0	1.85	80.8
MEAN							3.50	.94	0	0	.060	2.69
MAX							6.3	3.8	0	0	1.4	3.6
MIN							0	0	0	0	0	1.1
AC-FT							208	58	0	0	3.7	160
CAL YEAR 2003	MAX	1.7	MIN	0	AC-FT	136						
WTR YEAR 2004	MAX	6.3	MIN	0	AC-FT	430						

E indicates estimated discharge.

# NIOBRARA RIVER BASIN

**METTLEN CANAL from Niobrara River, 00089000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									2.7	2.9	1.6	0
2									2.1	2.2	1.4	0
3									2.8	2.0	1.3	0
4									2.6	3.4	1.8	0
5									2.4	3.5	2.0	0
6									2.2	3.5	2.7	0
7									0	2.8	2.4	0
8									1.2	1.7	1.9	0
9									3.1	1.3	1.5	0
10									1.7	1.3	1.5	0
11									0	1.2	1.7	0
12									0	.86	1.6	0
13									0	1.3	1.6	0
14									0	2.4	1.7	0
15								1.5E	0	2.5	1.6	0
16								2.0E	0	3.4	1.2	0
17								3.5E	0	4.4	1.2	0
18								4.3E	0	4.3	2.3	0
19								3.6	0	4.3	2.6	0
20								3.0	0	4.3	3.6	0
21								3.1	1.3	3.1	2.2	0
22								2.9	1.7	1.3	1.1	0
23								2.7	1.5	1.6	0	0
24								3.7	1.4	2.6	0	0
25								5.4	.09	2.3	0	0
26								2.7	.89	1.9	0	0
27								1.7	2.3	1.7	0	0
28								2.7	2.4	1.8	0	0
29								3.0	2.3	2.0	0	0
30					-----			3.5	3.0	2.0	0	0
31		-----			-----		-----	3.4	-----	1.8	0	-----
TOTAL								52.7	37.68	75.66	40.5	0
MEAN								3.10	1.26	2.44	1.31	0
MAX								5.4	3.1	4.4	3.6	0
MIN								1.5	0	.86	0	0
AC-FT								105	75	150	80	0
CAL YEAR 2003	MAX	4.5	MIN	0	AC-FT	167						
WTR YEAR 2004	MAX	5.4	MIN	0	AC-FT	410						

E indicates estimated discharge.

**BENNETT-KAY CANAL from Niobrara River, 00013000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	1.5	1.4	1.1	
2								0	1.4	1.4	1.1	0
3								0	1.3	1.4	1.2	0
4								0	1.0	1.4	1.1	0
5								0	0	1.4	.39	0
6							0	E	0	0	1.6	0
7							3.5	E	0	.92	1.5	0
8							2.8	0		.49	1.4	0
9							2.7	0	0	0	1.4	0
10							2.6	0	0	0	1.4	0
11							2.6	.65	0	0	1.4	0
12							2.5	1.8	0	0	1.0	0
13							2.7	1.9	0	0	0	1.4
14							2.8	2.0	0	0	.71	0
15							2.7	1.9	0	0	0	0
16							2.7	1.8	0	0	0	0
17							2.6	1.8	0	0	0	0
18							2.6	2.0	0	0	0	0
19							2.3	2.0	0	0	0	0
20							2.2	2.0	0	0	0	0
21							2.3	1.9	0	0	0	0
22							2.2	.52	0	0	0	0
23							2.2	0	0	0	0	0
24							2.3	.53	0	0	0	0
25							2.3	1.3	0	0	0	0
26							2.3	1.3	0	0	0	0
27							.89	1.3	0	0	0	0
28							0	1.4	0	.69	0	0
29							0	1.3	.82	1.0	0	0
30					-----		0	1.3	1.4	1.1	0	
31		-----			-----		-----	1.4	-----	1.1	0	-----
TOTAL							51.79	30.10	8.83	20.59	8.00	4.50
MEAN							2.07	.97	.29	.66	.26	.16
MAX							3.5	2.0	1.5	1.6	1.4	2.2
MIN							0	0	0	0	0	0
AC-FT							103	60	18	41	16	8.9
CAL YEAR 2003	MAX	4.8	MIN	0	AC-FT	321						
WTR YEAR 2004	MAX	3.5	MIN	0	AC-FT	246						

E indicates estimated discharge.

# NIOBRARA RIVER BASIN

**MOORE - KAY CANAL from Niobrara River, 00104000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								4.2	1.3	0	.92E	0
2								4.0	1.3	0	.92E	0
3								3.9	1.3	0	1.1 E	0
4								3.1	1.2	0	1.5	0
5								2.9	1.4	0	1.2	0
6								2.8	1.9	0	0	0
7								2.5	2.0	0	1.1	0
8							0	2.3	1.8	0	.22	0
9							0	2.0	1.7	0	.28	0
10							0	1.8	1.1	.01	.21	0
11							0	1.7	0	.63	.24	0
12							0	1.9	0	.60	.06	0
13							0	1.5	0	.74	0	0
14							0	1.5	0	.43	0	0
15							2.0	1.5	0	0	0	0
16							5.5	1.3	0	0	0	0
17							5.3	1.2	0	0	0	0
18							5.4	1.8	0	0	0	0
19							5.2	1.8	0	0	0	0
20							5.3	1.6	0	0	0	0
21							5.2	1.5	0	0	0	0
22							5.4	1.4	0	.11	0	0
23							5.6	1.7	0	.84	0	0
24							5.2	1.9	0	1.1	0	0
25							4.8	1.7	0	1.1	0	0
26							4.6	1.3	0	.97	0	0
27							4.6	1.2	0	.88	0	0
28							4.6	1.3	0	1.1	0	0
29							4.4	1.4	0	.92E	0	0
30					-----		4.3	1.5	0	.92E	0	0
31		-----			-----		-----	1.4	-----	.92E	0	-----
TOTAL							77.4	61.6	15.0	11.27	7.75	0
MEAN							3.37	1.99	.50	.36	.25	0
MAX							5.6	4.2	2.0	1.1	1.5	0
MIN							0	1.2	0	0	0	0
AC-FT							154	122	30	22	15	0
CAL YEAR 2003 MAX		6.0	MIN	0	AC-FT	152						
WTR YEAR 2004 MAX		5.6	MIN	0	AC-FT	343						

E indicates estimated discharge.

GEO. HITSHEW CANAL from Niobrara river, 00063000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	1.9	0	0
2								0	0	1.2	0	0
3								0	0	0	0	0
4								0	0	0	0	0
5							0 E	0	0	.67	0	0
6							1.0 E	0	0	0	0	0
7							2.5 E	0	0	0	0	0
8							3.0 E	0	0	0	0	0
9							3.1	0	0	0	0	0
10							3.0	0	0	0	0	0
11							2.5	0	0 E	0	0	0
12							2.5	0	0 E	0	0	0
13							2.5	0	0 E	0	0	0
14							2.0	0	0 E	0	0	0
15							1.2	0	0 E	0	0	0
16							.52	0	0 E	0	0	0
17							0	0	0 E	0	0	0
18							0	0	1.0E	0	0	0
19							0	0	1.7E	0	0	0
20							0	0	2.0E	0	0	0
21							0	0	3.0E	0	0	0
22							0	0	3.7E	0	0	0
23							0	0	3.7E	0	0	0
24							0	0	3.0	0	0	0
25							0	0	2.5	0	0	0
26							0	0	2.7	0	0	0
27							0	0	2.7	0	0	0
28							0	0	2.7	0	0	0
29							0	0	2.7	0	0	0
30					-----		0	0	2.5	0	0	0
31	0	-----			-----		-----	0	-----	0	0	-----
TOTAL							23.82	0	33.9	3.77	0	0
MEAN							.92	0	1.13	.12	0	0
MAX							3.1	0	3.7	1.9	0	0
MIN							0	0	0	0	0	0
AC-FT							47	0	67	7.5	0	0
CAL YEAR 2003	MAX	0	MIN	0	AC-FT	0						
WTR YEAR 2004	MAX	3.7	MIN	0	AC-FT	122						

E indicates estimated discharge.

# NIOBRARA RIVER BASIN

**McLAUGHLIN CANAL from Niobrara River, 00086000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	2.0	4.3	.49	0
2								0	1.9	4.0	.20	0
3								0	1.7	3.8	0	0
4								0	1.6	3.7	0	0
5								1.3	1.6	3.5	0	0
6								1.8	1.3	3.4	0	0
7								1.7	.88	3.1	0	0
8							0	1.7	.79	2.9	0	0
9							0	1.7	.52	2.8	0	0
10							0	1.7	.75	2.8	0	0
11							0	1.8	1.3	2.5	0	0
12							0	2.0	1.5	1.9	0	0
13							0	2.2	1.7	1.2	0	0
14							0	2.5	1.8	1.2	0	0
15							0	2.4	1.8	1.4	0	0
16							0	2.2	1.9	1.9	0	0
17							0	2.3	2.1	1.9	0	0
18							0	2.4	2.4	1.8	0	0
19							0	2.7	2.7	1.7	0	0
20							0	2.5	3.1	2.1	0	0
21							0	2.4	3.3	2.1	0	0
22							0	2.2	3.7	1.9	0	0
23							0	2.2	4.3	2.1	0	0
24							0	2.3	4.3	2.3	0	0
25							0	2.2	4.3	2.5	0	0
26							0	2.3	4.3	2.5	0	0
27							0	2.3	4.5	2.1	0	0
28							0	2.5	4.5	1.9	0	0
29							0	2.4	4.5	1.7	0	0
30					-----		0	2.2	4.4	1.5	0	0
31		-----			-----		-----	2.1	-----	.80	0	-----
TOTAL							0	58.0	75.44	73.30	0.69	0
MEAN							0	1.87	2.51	2.36	.022	0
MAX							0	2.7	4.5	4.3	.49	0
MIN							0	0	.52	.80	0	0
AC-FT							0	115	150	145	1.4	0
CAL YEAR 2003	MAX	5.5	MIN	0	AC-FT	618						
WTR YEAR 2004	MAX	4.5	MIN	0	AC-FT	411						



**EXCELSIOR CANAL from Niobrara River, 00046000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-----												
No water diverted in 2004.												
CAL YEAR 2003	MAX	3.5	MIN	0	AC-FT	216						

# NIOBRARA RIVER BASIN

**HUGHES CANAL from Niobrara River, 00069000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-----												
No water diverted in 2004.												
CAL YEAR 2003	TOTAL	0	MEAN	0	MAX	0	MIN	0	AC-FT	0		

**PIONEER CANAL from Niobrara River, 00123000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	4.3	0	1.5	0
2								0	4.5	0	1.6	0
3								0	4.5	0	1.8	0
4								0	4.5	0	2.0	0
5								0	4.6	0	2.2	0
6								0	4.5	0	2.3	0
7								0	4.1	0	2.4	0
8								.35	4.1	0	2.4	0
9								2.4	4.4	0	2.5	0
10								2.6	4.8	0	1.8	0
11								2.6	4.9	0	0	0
12							0 E	2.6	4.5	0	0	0
13							1.5E	2.6	4.2	0	0	0
14							2.8E	2.7	4.1	0	0	0
15							2.8	2.8	4.0	0	0	0
16							2.8	3.0	3.8	0	0	0
17							1.7	3.1	2.4	0	0	0
18							0	3.4	1.6	0	0	0
19							0	4.1	1.8	0	0	0
20							0	4.2	1.7	0	0	0
21							0	4.4	1.7	0	0	0
22							0	4.5	1.8	0	0	0
23							0	4.7	1.7	0	0	0
24							0	4.8	1.7	0	0	0
25							0	5.0	1.4	0	0	0
26							0	5.3	0	0	0	0
27							0	4.9	0	0	0	0
28							0	4.2	0	0	0	0
29							0	4.4	0	0	0	0
30					-----		0	4.5	0	0	0	0
31		-----			-----		-----	4.4	-----	.66	0	-----
TOTAL							11.6	87.55	85.6	0.66	20.5	0
MEAN							.61	2.82	2.85	.021	.66	0
MAX							2.8	5.3	4.9	0	2.5	0
MIN							0	0	0	0	0	0
AC-FT							23	174	170	1.3	41	0
CAL YEAR 2003	MAX	4.7	MIN	0	AC-FT	348						
WTR YEAR 2004	MAX	5.3	MIN	0	AC-FT	408						

E indicates estimated discharge.

# NIOBRARA RIVER BASIN

## NIOBRARA RIVER above Box Butte Reservoir, 06454500 - 2004

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 51 cubic feet per second March 9, gage height 3.75 feet; maximum gage height 4.82 feet due to backwater from ice conditions; minimum daily discharge 6.2 cubic feet per second June 15 and 16.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1E	12E	15	17	17	35E	26	16	6.9	14	6.9	9.0
2	9.2E	12E	15	18	18	30E	26	16	7.0	13	7.2	8.8
3	9.3E	12E	16	17	18	24	25	16	7.5	12	7.2	9.0
4	9.3E	13	16	16E	18	26	25	16	7.7	12	7.6	9.2
5	9.4E	13	16E	16E	18	27	25	15	7.9	12	9.2	15
6	9.5E	13	16	16E	18E	29	25	14	7.6	11	14	15
7	9.6E	13	15	17E	17E	33	24	14	7.7	11	12	13
8	9.7E	13	16	18	16E	38	24	13	7.5	11	9.4	14
9	9.7E	14	16	18	16E	41	23	8.9	7.6	11	8.9	15
10	9.8E	14	15E	17	17E	46	15	10	7.9	11	11	14
11	9.9E	15	15E	17	18E	38	18	11	7.1	10	16	13
12	10 E	15	15E	17	18E	37	19	11	6.8	9.6	12	13
13	10 E	14	16E	17	18E	38	17	9.7	6.6	9.6	11	12
14	10 E	14	16	18	18E	35	17	9.8	6.4	9.9	11	13
15	10 E	15	17	18	18	33	17	9.7	6.2	9.5	11	14
16	10 E	14	15	18	18	33	16	9.7	6.2	9.5	10	14
17	10 E	15	18	18	18	34	17	9.1	6.4	9.4	10	13
18	11 E	14	17	18	18	33	22	9.7	7.4	9.2	10	14
19	11 E	15	17	18	19	33	18	8.9	10	9.0	10	13
20	11 E	15	17	19	18	32	17	8.6	9.6	9.4	10	13
21	11 E	14	17	18	18	30	17	8.8	9.9	9.3	10	13
22	11 E	14	17	18	19	30	18	8.9	9.3	9.4	10	13
23	11 E	15	17	18	19	29	20	9.1	9.2	10	9.9	13
24	11 E	14	17	18	20	28	19	9.0	9.4	10	9.4	13
25	11 E	14	17	17E	20	28	19	8.5	9.8	10	9.5	14
26	11 E	14	17	17E	24	27	18	8.9	15	9.7	9.6	14
27	12 E	14E	18	17E	28	26	17	8.6	12	9.4	9.8	14
28	12 E	15E	17E	18E	31	26	18	7.5	11	9.5	9.6	14
29	12 E	15	17E	17	37	25	17	7.4	11	10	9.4	14
30	12 E	15	17E	17	-----	24	16	7.1	12	9.8	9.2	16
31	12 E	-----	17E	18	-----	24	-----	7.1	-----	7.1	9.3	-----
TOTAL	323.5	419	507	541	570	972	595	327.0	256.6	317.3	310.1	392.0
MEAN	10.4	14.0	16.4	17.5	19.7	31.4	19.8	10.5	8.55	10.2	10.0	13.1
MAX	12	15	18	19	37	46	26	16	15	14	16	16
MIN	9.1	12	15	16	16	24	15	7.1	6.2	7.1	6.9	8.8
AC-FT	642	831	1,010	1,070	1,130	1,930	1,180	649	509	629	615	778
CAL YEAR 2003	TOTAL	6,216.40	MEAN	17.0	MAX	41	MIN	5.8	AC-FT	12,330		
WTR YEAR 2004	TOTAL	5,530.50	MEAN	15.1	MAX	46	MIN	6.2	AC-FT	10,970		

E indicates estimated discharge.

**BOX BUTTE RESERVOIR from Niobrara River, 06455000 - 2004**

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

GAGE.--Reference point

PERIOD OF RECORD.--1946 - present

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

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,455	5,209	5,998	6,856	7,755	8,601	9,753	10,949	11,715	11,639	7,137	3,460
2	4,481	5,231	6,004	6,903	7,769	8,712	9,576	10,822	11,705	11,649	6,380	3,479
3	4,518	5,259	5,992	6,923	7,762	8,586	9,728	11,158	11,686	11,639	6,059	3,508
4	4,540	5,298	5,998	6,916	7,776	8,680	9,745	11,799	11,696	11,658	5,926	3,522
5	4,566	5,298	6,035	6,956	7,892	8,791	9,660	11,809	11,668	11,639	5,883	3,676
6	4,593	5,315	6,071	6,909	7,922	8,878	9,508	11,809	11,649	11,630	5,913	3,720
7	4,615	5,327	6,089	6,950	7,944	8,831	9,559	11,818	11,621	11,621	5,783	3,760
8	4,636	5,361	6,107	6,950	7,981	8,910	9,517	11,818	11,602	11,639	5,643	3,789
9	4,657	5,367	6,131	6,956	8,003	8,981	9,440	11,809	11,621	11,658	5,424	3,824
10	4,705	5,435	6,083	7,198	8,018	9,054	9,259	11,799	11,630	11,649	5,231	3,848
11	4,727	5,475	6,280	7,043	8,040	9,120	9,374	11,827	11,621	11,040	5,109	3,878
12	4,748	5,510	6,267	7,050	8,047	9,128	9,317	11,837	11,584	10,885	5,059	3,908
13	4,786	5,544	6,311	7,150	7,996	9,079	9,079	11,837	11,574	10,288	4,982	3,937
14	4,802	5,607	6,336	7,171	8,040	9,169	9,038	11,846	11,565	9,993	4,840	3,993
15	4,824	5,578	6,311	7,192	8,114	9,046	8,965	11,846	11,537	9,736	4,700	4,024
16	4,851	5,619	6,367	7,205	8,263	9,079	8,981	11,846	11,547	9,423	4,938	4,054
17	4,884	5,527	6,380	7,157	8,310	9,300	9,112	11,856	11,556	9,136	4,982	4,080
18	4,911	5,678	6,380	7,130	8,317	9,300	9,374	11,865	11,574	8,807	5,009	4,111
19	4,933	5,654	6,398	7,117	8,294	9,276	9,985	11,865	11,584	8,494	5,037	4,142
20	4,955	5,619	6,480	7,226	8,340	9,382	10,456	11,856	11,611	8,077	5,053	4,178
21	4,982	5,760	6,467	7,226	8,010	9,284	10,822	11,856	11,602	7,783	5,076	4,219
22	5,004	5,807	6,518	7,323	8,195	8,862	11,049	11,856	11,593	7,769	4,727	4,250
23	5,026	5,789	6,486	7,392	8,248	9,483	10,651	11,846	11,593	7,892	3,824	4,282
24	5,037	5,807	6,498	7,371	8,394	9,976	10,895	11,846	11,574	7,747	3,789	4,313
25	5,059	5,824	6,498	7,281	8,509	9,873	10,958	11,837	11,574	7,604	3,082	4,345
26	5,081	5,907	6,602	7,344	8,302	9,847	10,967	11,818	11,602	7,240	3,299	4,376
27	5,098	5,926	6,930	7,392	8,425	9,924	11,040	11,809	11,602	7,057	3,368	4,402
28	5,109	5,938	6,950	7,503	8,548	9,830	11,122	11,799	11,593	7,010	3,276	4,429
29	5,148	5,962	6,890	7,510	8,775	9,567	11,158	11,799	11,602	6,890	2,980	4,465
30	5,159	5,974	6,890	7,647	-----	9,703	10,985	11,771	11,630	7,103	2,844	4,566
31	5,176	-----	6,896	7,683	-----	9,950	-----	11,743	-----	7,117	2,803	-----
MAX	5,176	5,974	6,950	7,683	8,775	9,976	11,158	11,865	11,715	11,658	7,137	4,566
MIN	4,455	5,209	5,992	6,856	7,755	8,586	8,965	10,822	11,537	6,890	2,803	3,460
CHANGE	742	798	922	787	1,092	1,175	1,035	758	-113	-4,513	-4,314	1,763
CAL YEAR 2003			MEAN	5,601	MAX	6,950	MIN	4,455				
WTR YEAR 2004			MEAN	7,743	MAX	11,865	MIN	2,803				

# NIOBRARA RIVER BASIN

## NIOBRARA RIVER below Box Butte Reservoir, 06455500 - 2004

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 5.0 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 152 cubic feet per second July 20, gage height 4.20 feet; maximum gage height 4.40 feet August 8; minimum daily discharge 0.65 cubic feet per second on September 12.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80E	.74	.74	.74	.80	.83	.85	.86	.86	.93	22	45
2	.81	.77	.74	.77	.78	.82	.88	.87	.84	.91	74	.74
3	.73	.77	.76	.77	.77	.80	.91	.87	.83	.89	117	.68
4	.74	.77	.78	.77	.77	.82	.89	.87E	.83	.89	119	.68
5	.74	.77	.74E	.77	.77	.83	.89	.87E	.81	.90	105	.68E
6	.74	.77	.74E	.77	.77	.84	.89	.87	.80	.88	87	.70E
7	.80	.77	.73	.77	.77	.82	.90	.86	.77	.88	78 E	.77E
8	.72	.77	.75	.77	.77	.84	.87	.83	.76	.87	80 E	.77
9	.76	.77	.77	.77	.77	.85	.93	.80	.82	.89	86	.75
10	.78	.77	.77	.77	.79	.87	.91	.77	.90	.88	90	.72
11	.85	.77	.77	.77	.84	.85	.92	.78	.85	74	89	.70
12	.79	.75	.77	.77	.76	.82	.91	.82	.82	95	83	.65
13	.74	.74	.77	.77	.74	.81	.88	.77	.82	114	75	.68
14	.77	.75	.76	.77	.74	.77	.88	.79	.80	135	73	.73
15	.77	.72	.75	.77	.74	.79	.90	.81	.80	133	78	.76
16	.77	.72	.71	.77	.74	.79	.89	.78	.85	133	42	.76
17	.76	.72	.72	.77	.74	.76	.89	.80	.91	134	.87	.74
18	.74	.73	.70	.77	.76	.73	.89	.86	.92	134	.82	.73
19	.77	.71	.72	.77	.77	.73	.87	.86	.93	136	.80	.74
20	.77	.72	.72	.77	.78	.73	.90	.86	.92	140	.79	.74
21	.75	.72	.72	.77	.77	.74	.86	.86	.89	143	.75	.78
22	.74	.74	.72	.77	.77	.76	.86	.87	.86	129	45	.80
23	.75	.74	.73	.77	.77	.80	.86	.89	.86	103	73	.76
24	.77	.74	.74	.77	.77	.83	.86	.89	.89	87	87	.74
25	.77	.74	.74	.77	.79	.85	.86	.89	.89	84	90	.74
26	.78	.74	.74	.76	.80	.86	.86	.87	.89	91	85	.73
27	.78	.74	.76	.76	.80	.90	.86	.86	.89	100	78	.71
28	.80	.74	.75	.77	.78	.87	.86	.86	.89	90	70	.77
29	.80	.74	.73	.77	.79	.90	.86	.85	.89	83	67	.69
30	.78	.74	.74	.79	-----	1.0	.86	.83	.90	57	69	.76
31	.75	-----	.74	.74	-----	.92	-----	.86	-----	22	77	-----
TOTAL	23.82	22.38	23.02	23.81	22.41	25.53	26.45	26.13	25.69	2,225.92	2,043.03	66.20
MEAN	.77	.75	.74	.77	.77	.82	.88	.84	.86	71.8	65.9	2.21
MAX	.85	.77	.78	.79	.84	1.0	.93	.89	.93	143	119	45
MIN	.72	.71	.70	.74	.74	.73	.85	.77	.76	.87	.75	.65
AC-FT	47	44	46	47	44	51	52	52	51	4,420	4,050	131
CAL YEAR 2003 TOTAL		5,608.63	MEAN	15.4	MAX	146	MIN	.47	AC-FT	11,120		
WTR YEAR 2004 TOTAL		4,554.39	MEAN	12.4	MAX	143	MIN	.65	AC-FT	9,030		

E indicates estimated discharge.

**MONTAGUE CANAL from Niobrara River, 00102000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-----												
No water diverted in 2004												
CAL YEAR 2003	TOTAL	0	MEAN	0	MAX	0	MIN	0	AC-FT	0		
WTR YEAR 2004	TOTAL	0	MEAN	0	MAX	0	MIN	0	AC-FT	0		

# NIOBRARA RIVER BASIN

## LICHTE CANAL from Niobrara River, 00081000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									1.6 E	0	0	0
2									.80E	0	0	0
3									0 E	0	0	0
4									0 E	0	0	0
5									0 E	0	0	0
6									0 E	0	0	0
7									0 E	0	0	0
8									0 E	0	0	0
9									.53	0	0	0
10									.83	0	0	0
11									0	0	0	0
12									.78	0	0	0
13									1.8	0	0	0
14									1.8	0	0	0
15									1.7	0	0	0
16									1.6	0	0	0
17									1.6	0	0	0
18									1.6	0	0	0
19									.90	0	0	0
20									0	0	0	0
21									0	0	0	0
22									0	0	0	0
23									0	0	0	0
24									0	0	0	0
25									0	0	0	0
26									0	0	0	0
27									0	0	0	0
28									0	0	0	0
29								0 E	0	0	0	0
30					-----			.83E	0	0	0	0
31		-----			-----		-----	1.6 E	-----	0	0	0
TOTAL								2.43	15.54	0	0	0
MEAN								.81	.52	0	0	0
MAX								1.6	1.8	0	0	0
MIN								0	0	0	0	0
AC-FT								4.8	31	0	0	0
CAL YEAR 2003	MAX	2.4	MIN	0	AC-FT	51						
WTR YEAR 2004	MAX	1.8	MIN	0	AC-FT	36						

E indicates estimated discharge.



MIRAGE FLATS CANAL from Niobrara River, 00100000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										0	25	74
2										0	52	21
3										0	132	0
4										0	126	0
5										0	114	0
6										0	95	0
7										0	83	0
8										0	82	0
9										0	83	0
10										0	87	0
11										31	81	0
12										81	74	0
13										93	65	0
14										117	61	0
15										108	68	0
16										115	67	0
17										138	0	0
18										140	0	0
19										150	0	0
20										153	0	0
21										142	0	0
22										140	29	0
23										113	67	0
24										94	87	0
25										87	84	0
26										92	84	0
27										106	83	0
28										105	68	0
29										90	67	0
30					-----					85	69	0
31		-----			-----		-----		-----	26	77	-----
TOTAL										2,206	2,010	95
MEAN										71.2	64.8	3.17
MAX										153	132	74
MIN										0	0	0
AC-FT										4,380	3,990	188
CAL YEAR 2003	MAX	140	MIN	0	AC-FT	9,930						
WTR YEAR 2004	MAX	153	MIN	0	AC-FT	8,550						

# NIOBRARA RIVER BASIN

**POTMESIL CANAL from Niobrara River, 00124000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	2.6	4.1	5.2	2.1
2								0	5.1	4.1	4.8	3.9
3								0	5.6	4.1	4.3	3.9
4								0	4.7	3.9	4.4	3.9
5								.63	3.1	3.9	4.3	1.4
6								3.7	4.5	3.9	3.9	0
7								5.2	4.2	3.9	3.1	0
8								5.6	4.3	3.9	3.3	0
9								6.0	4.5	2.3	3.4	0
10								3.9	1.4	3.9	3.5	0
11								4.3	2.7	3.4	3.5	.64
12								4.3	4.4	3.6	3.5	3.2
13								2.6	4.0	3.5	3.8	2.9
14								0	4.0	3.5	3.9	2.9
15								0	4.4	4.1	3.7	1.0
16								0	4.1	4.4	3.4	0
17								0	3.9	4.6	4.7	0
18								1.1	3.7	4.6	4.7	.56
19								3.4	3.8	4.6	4.5E	3.3
20								4.0	3.9	4.8	4.2E	1.3
21							0	4.6	3.9	5.1	4.0E	0
22							0	4.3	3.8	5.1	3.8E	0
23							0	4.2	3.9	4.4	3.5E	0
24							0	3.8	4.1	3.3	3.3E	0
25							0	3.6	4.0	4.0	3.0	0
26							0	3.3	4.1	4.7	2.6	0
27							0	3.9	4.0	4.4	2.3	0
28							0	3.9	4.0	4.6	2.1	0
29							0	3.7	4.1	4.3	2.3	0
30					-----		0	2.9	4.0	4.6	2.7	0
31		-----			-----		-----	2.2	-----	5.2	2.3	-----
TOTAL							0	85.13	118.8	128.8	112.0	31.00
MEAN							0	2.75	3.96	4.15	3.61	1.03
MAX							0	6.0	5.6	5.2	5.2	3.9
MIN							0	0	1.4	2.3	2.1	0
AC-FT							0	169	236	255	222	61
CAL YEAR 2003 MAX		7.3	MIN	0	AC-FT	905						
WTR YEAR 2004 MAX		6.0	MIN	0	AC-FT	944						

E indicates estimated discharge.

**SNAKE RIVER at Doughboy, 06459175 - 2004**

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, gage datum was 3,098.92 ft.

PERIOD OF RECORD.--1981 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 268 cubic feet per second July 30, gage height 1.37 feet; minimum daily discharge 140 cubic feet per second estimated June 8.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	164	173	169	167	186	171	155	147	153	158	160
2	160	166	171	177	169	177	169	152	145	154	157	153
3	162	170	172	171	168	184	168	155	145	159	158	151
4	162	173	172	155E	164	188	169	158	148	161	155	152
5	163	176	157	145E	175	189	171	161	148	175	157	175
6	165	175	155	150E	160E	198	169	155	147	167	159	174
7	164	173	171	155E	155E	196	170	151	143	157	158	170
8	163	172	179	173	168	210	161	155	140	154	157	163
9	160	177	175	165	159	222	162	154	144	157	151	165
10	165	177	168	168	172	219	164	151	164	165	152	161
11	166	181	167	170	170E	199	164	155	166	162	158	160
12	163	176	163	170	160E	192	159	181	154	157	150	162
13	165	178	164	171	165E	192	163	156	146	153	150	162
14	163	180	170	176	179	180	165	151	145	176	149	169
15	165	181	172	173	178	181	164	160	142	175	143	176
16	166	179	162	174	186	174	162	163	158	161	143	169
17	169	180	164	181	190	182	161	154	162	161	148	164
18	169	175	167	182	192	184	159	155	166	157	153	168
19	169	172	165	174	202	177	158	158	165	156	144	164
20	170	175	172	177	202	177	163	155	164	156	145	170
21	173	170	176	170	192	173	161	154	176	157	149	186
22	175	169	180	168	190	170	169	159	161	160	148	186
23	174	160E	174	168	191	172	174	177	155	158	153	177
24	171	155E	179	171	186	169	184	170	153	158	147	168
25	164	160	176	170	189	174	187	159	146	159	147	165
26	160	161	176	155E	187	175	177	155	150	159	145	164
27	169	166	176	150E	194	180	171	149	153	155	148	164
28	168	163	172	150E	195	174	168	149	146	161	151	158
29	168	167	169	145E	200	170	155	155	151	164	152	160
30	166	173	171	155E	-----	167	150	156	151	214	154	165
31	163	-----	171	168	-----	171	-----	154	-----	172	158	-----
TOTAL	5,140	5,144	5,279	5,146	5,205	5,702	4,988	4,872	4,581	5,033	4,697	4,981
MEAN	166	171	170	166	179	184	166	157	153	162	152	166
MAX	175	181	180	182	202	222	187	181	176	214	159	186
MIN	160	155	155	145	155	167	150	149	140	153	143	151
AC-FT	10,200	10,200	10,470	10,210	10,320	11,310	9,890	9,660	9,090	9,980	9,320	9,880
CAL YEAR 2003 TOTAL		64,619	MEAN	177	MAX	300	MIN	140	AC-FT	128,200		
WTR YEAR 2004 TOTAL		60,768	MEAN	166	MAX	222	MIN	140	AC-FT	120,500		

E indicates estimated discharge.

# NIOBRARA RIVER BASIN

## MERRITT RESERVOIR from Snake River, 06459300 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39,000	54,380	65,850	68,830	68,560	68,390	73,630	73,630	74,200	73,630	54,140	35,400
2	39,520	54,840	66,120	68,830	68,560	69,670	73,340	73,630	73,910	73,340	53,230	34,470
3	40,040	55,310	66,390	68,830	68,290	69,670	73,340	73,630	73,910	72,760	52,560	33,860
4	40,570	56,010	66,930	68,830	68,560	69,670	73,340	73,340	74,200	72,480	51,660	33,560
5	41,100	56,490	67,200	68,830	68,560	69,390	73,340	73,340	74,200	71,910	50,580	33,260
6	41,640	56,730	67,740	68,560	68,830	69,390	73,340	73,340	74,200	71,910	49,930	32,970
7	42,200	57,210	68,020	68,560	68,830	69,390	73,340	73,050	74,200	71,910	49,070	32,530
8	42,750	57,690	68,290	68,560	68,830	69,390	73,340	73,050	74,200	71,910	48,450	31,950
9	43,300	58,180	68,560	68,560	68,830	69,390	73,340	73,050	74,200	71,340	47,620	31,380
10	43,680	58,920	68,830	68,830	68,830	69,390	73,340	73,050	74,200	71,340	47,010	30,820
11	44,260	59,170	68,830	68,830	68,830	69,390	73,340	73,050	74,490	71,060	46,410	30,410
12	44,830	59,670	68,830	69,110	68,830	69,390	73,340	73,050	74,490	70,780	46,010	30,140
13	45,220	60,160	68,560	69,110	69,110	69,110	73,340	73,340	74,490	69,950	45,620	29,730
14	45,620	60,160	68,560	69,110	68,830	69,110	73,340	73,630	74,490	69,390	45,220	29,640
15	46,210	60,410	68,560	69,110	69,110	69,390	73,340	73,910	74,490	68,830	44,450	29,330
16	46,610	60,660	68,560	69,110	69,110	69,110	73,340	73,910	74,490	68,020	43,880	29,460
17	47,210	60,910	68,560	69,110	68,830	69,390	73,340	74,200	74,490	66,930	43,300	29,730
18	47,620	61,660	68,560	69,110	68,830	69,950	73,340	74,200	74,490	66,120	43,120	30,000
19	48,040	61,420	68,830	69,110	68,830	70,230	73,340	74,490	74,490	65,320	42,750	30,270
20	48,660	61,680	68,830	69,110	69,110	70,500	73,340	74,490	74,490	64,270	42,380	30,410
21	49,070	61,940	68,830	69,110	69,110	71,060	73,340	74,200	74,780	63,480	42,200	30,820
22	49,710	62,450	69,110	69,110	69,110	71,340	73,340	74,490	74,780	62,450	41,830	30,960
23	50,140	62,710	69,110	69,110	69,110	71,910	73,630	74,490	74,780	61,420	41,460	31,800
24	50,580	62,960	69,110	69,110	69,110	72,190	73,630	74,490	74,490	60,660	40,750	32,240
25	51,220	63,220	69,110	69,110	69,110	72,480	73,910	74,490	74,490	59,910	40,040	32,820
26	51,660	63,480	69,110	68,830	69,110	72,770	73,910	74,490	74,490	58,920	39,180	33,260
27	52,110	64,000	68,830	68,560	69,110	73,340	73,910	74,490	74,490	57,940	38,320	33,860
28	52,560	64,530	68,830	68,560	69,390	73,630	73,910	74,490	74,490	57,210	37,820	34,170
29	53,010	65,060	69,110	68,560	69,390	73,630	73,630	74,490	74,200	56,490	37,330	34,770
30	53,450	65,320	68,830	68,560	-----	73,630	73,630	74,200	73,910	55,540	36,670	35,080
31	53,910	-----	68,830	68,560	-----	73,630	-----	74,2007	-----	54,840	35,710	-----
MAX	53,910	65,320	69,110	69,110	69,390	73,630	73,910	74,490	74,780	73,630	54,140	35,400
MIN	39,000	54,380	65,850	68,560	68,290	68,390	73,340	73,050	73,910	54,840	35,710	29,330
CHANGE	7,500	11,410	3,510	-270	830	4,240	0	570	-290	-19,070	-19,130	-630
CAL YEAR 2003			MEAN	62,084	MAX	75,700	MIN	31,100				
WTR YEAR 2004			MEAN	62,322	MAX	74,780	MIN	29,330				

**AINSWORTH CANAL from Merritt Reservoir, 00001000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	71	353	594	560
2								0	75	377	624	566
3								0	84	381	627	481
4								0	89	400	620	372
5								0	86	251	610	375
6								19	85	167	593	436
7								126	81	189	540	494
8								101	81	224	547	486
9								101	79	280	542	475
10								101	75	279	464	450
11								101	75	324	408	376
12								101	75	430	413	376
13								95	82	511	431	371
14								80	86	550	462	310
15								81	86	553	502	248
16								87	86	566	523	115
17								90	80	566	432	110
18								91	65	579	405	110
19								91	65	608	324	110
20								89	65	627	323	110
21								81	65	627	347	90
22								81	68	630	402	25
23								81	80	602	507	0
24								74	91	555	565	0
25								71	111	580	553	0
26								71	125	605	560	0
27								71	153	599	519	0
28								71	206	608	434	0
29								71	272	621	460	0
30					-----			71	313	622	513	0
31		-----			-----		-----	71	-----	570	548	-----
TOTAL								2,168	3,055	14,834	15,392	7,046
MEAN								69.9	102	479	497	235
MAX								126	313	630	627	566
MIN								0	65	167	323	0
AC-FT								4,300	6,060	29,420	30,530	13,980
CAL YEAR 2003	MAX	620	MIN	0	AC-FT	77,310						
WTR YEAR 2004	MAX	630	MIN	0	AC-FT	84,290						

# NIOBRARA RIVER BASIN

## SNAKE RIVER near Burge, 06459500 - 2004

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

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

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

PERIOD OF RECORD.--June 1947 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 294 cubic feet per second February 29, gage height 2.19 feet; minimum daily discharge 12 cubic feet per second October 2-6, 9, 20-22, November 6-9.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	59	264	244	294	262	276	171	61	52	51
2	12	13	59	264	246	294	260	276	136	61	51	51
3	12	13	58	264	231	294	260	276	116	60	51	53
4	12	13	57	264	223	292	260	247	117	60	52	53
5	12	13	57	247	222	289	234	231	115	60	52	55
6	12	12	57	226	222	289	192	228	122	60	53	54
7	13	12	57	226	222	289	196	160	117	60	54	54
8	13	12	87	151	222	285	215	149	114	60	56	55
9	12	12	163	224	222	285	215	149	114	60	55	55
10	13	36	234	222	222	285	215	152	123	60	55	55
11	13	53	253	222	225	285	215	112	126	60	55	55
12	13	82	253	247	226	285	215	71	127	60	55	55
13	13	121	255	264	250	287	215	70	127	58	55	55
14	13	146	232	264	264	289	217	70	128	58	53	55
15	13	105	199	264	264	285	215	74	129	57	53	57
16	13	107	188	262	264	214	215	72	125	57	51	55
17	13	107	214	264	264	63	217	75	129	57	51	55
18	13	107	215	263	254	63	222	112	163	55	51	55
19	13	107	214	263	248	63	221	170	186	56	51	55
20	12	91	215	264	248	62	219	182	190	57	51	55
21	12	57	215	264	248	62	222	180	201	57	51	58
22	12	58	236	261	258	60	222	184	196	57	51	57
23	13	59	249	264	264	60	222	186	189	57	51	57
24	13	58	247	262	264	60	224	185	184	57	51	57
25	13	58	250	264	264	60	226	184	157	55	51	57
26	13	58	254	264	268	89	226	184	120	54	51	57
27	13	57	255	253	268	175	277	179	94	53	52	57
28	13	58	256	245	268	235	276	177	66	53	53	57
29	13	56	259	244	272	264	276	175	66	54	52	56
30	13	58	262	244	-----	264	276	176	64	54	51	55
31	13	-----	264	244	-----	264	-----	175	-----	53	51	-----
TOTAL	394	1,752	5,873	7,738	7,157	6,385	6,927	5,137	4,012	1,781	1,622	1,656
MEAN	12.7	58.4	189	250	247	206	231	166	134	57.5	52.3	55.2
MAX	13	146	264	264	272	294	277	276	201	61	56	58
MIN	12	12	57	151	222	60	192	70	64	53	51	51
AC-FT	781	3,480	11,650	15,350	14,200	12,660	13,740	10,190	7,960	3,530	3,220	3,280
CAL YEAR 2003	TOTAL	55,631	MEAN	152	MAX	381	MIN	12	AC-FT	110,300		
WTR YEAR 2004	TOTAL	50,434	MEAN	138	MAX	294	MIN	12	AC-FT	100,000		

**KEYA PAHA RIVER near Naper, 06464900 - 2004**

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 571 cubic feet per second June 12, gage height 6.77 feet; maximum gage height 7.07 feet February 26, due to backwater from ice; minimum daily discharge 8.3 cubic feet per second September 4.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	43	58E	46E	47E	251	254	91	114	36	13	12
2	34	42	58E	44E	46E	172	234	80	100	39	13	10
3	35	44	60E	48E	46E	184	212	74	90	44	13	8.9
4	37	50	60E	52E	47E	174	179	70	82	37	14	8.3
5	38	52	58E	45E	45E	150	157	65	80	45	21	9.5
6	39	45E	56E	50E	43E	137	145	62	69	45	19	11
7	41	40E	60E	50E	45E	123	138	61	60	47	15	12
8	38	36E	60E	50E	48E	128	128	59	55	50	13	12
9	38	45E	56E	52E	45E	129	124	58	52	51	12	12
10	37	56E	50E	50E	50E	136	118	58	55	45	20	12
11	63	70	49E	45E	52E	135	112	53	86	40	21	12
12	60	73	47E	47E	48E	130	112	75	376	35	22	13
13	52	69	44E	48E	46E	130	107	66	277	34	22	12
14	47	64	45E	47E	48E	131	99	59	227	32	20	13
15	45	62	44E	45E	50E	132	94	105	179	29	17	37
16	44	62	45E	47E	56E	131	89	134	140	27	16	32
17	44	63	45E	45E	70E	151	82	148	131	27	14	24
18	43	63	44E	45E	90E	163	80	133	116	26	15	22
19	43	60	45E	47E	110E	160	80	129	109	25	15	21
20	44	58	47E	50E	150E	165	97	125	108	23	14	21
21	43	58	48E	49E	200E	154	116	120	95	22	14	26
22	42	56E	48E	48E	300E	135	110	112	83	22	14	77
23	43	50E	47E	45E	400E	128	113	151	75	22	16	92
24	42	45E	48E	47E	390E	121	122	176	68	21	15	76 E
25	42	50E	50E	50E	410E	117	134	171	60	20	14	72 E
26	42	52E	52E	46E	390E	113	131	161	55	18	14	68 E
27	42	54E	49E	45E	380E	128	124	166	48	16	17	68 E
28	41	56E	48E	45E	350E	205	112	155	44	18	17	60 E
29	41	58E	50E	47E	259	241	106	144	41	17	15	54 E
30	42	62E	52E	46E	-----	282	100	149	39	16	15	52 E
31	43	-----	50E	45E	-----	279	-----	148	-----	15	13	-----
TOTAL	1,317	1,638	1,573	1,466	4,261	4,915	3,809	3,358	3,114	944	493	959.7
MEAN	42.5	54.6	50.7	47.3	147	159	127	108	104	30.5	15.9	32.0
MAX	63	73	60	52	410	282	254	176	376	51	22	92
MIN	32	36	44	44	43	113	80	53	39	15	12	8.3
AC-FT	2,610	3,250	3,120	2,910	8,450	9,750	7,560	6,660	6,180	1,870	978	1,900
CAL YEAR 2003 TOTAL		37,573.80	MEAN	103	MAX	995	MIN	7.5	AC-FT	74,530		
WTR YEAR 2004 TOTAL		27,847.70	MEAN	76.1	MAX	410	MIN	8.3	AC-FT	55,240		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

## FORT LARAMIE CANAL from North Platte River, 00052000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	1,456	1,191	0
2	0	0	0	0	0	0	0	0	0	1,459	1,223	0
3	0	0	0	0	0	0	0	0	0	1,416	1,261	0
4	0	0	0	0	0	0	0	0	0	1,438	1,267	0
5	0	0	0	0	0	0	0	0	0	1,435	1,305	0
6	0	0	0	0	0	0	0	0	0	1,435	1,287	0
7	0	0	0	0	0	0	0	0	0	1,429	1,278	0
8	0	0	0	0	0	0	0	0	0	1,407	1,293	0
9	0	0	0	0	0	0	0	0	0	1,423	1,320	0
10	0	0	0	0	0	0	0	0	0	1,423	1,341	0
11	0	0	0	0	0	0	0	0	0	1,423	1,359	0
12	0	0	0	0	0	0	0	0	0	1,419	1,359	0
13	0	0	0	0	0	0	0	0	0	1,395	1,359	0
14	0	0	0	0	0	0	0	0	0	1,401	1,359	0
15	0	0	0	0	0	0	0	0	0	1,404	1,362	0
16	0	0	0	0	0	0	0	0	465	1,404	1,359	0
17	0	0	0	0	0	0	0	0	705	1,401	1,359	0
18	0	0	0	0	0	0	0	0	769	1,389	1,359	0
19	0	0	0	0	0	0	0	0	789	1,368	1,353	0
20	0	0	0	0	0	0	0	0	700	1,353	1,359	0
21	0	0	0	0	0	0	0	0	668	1,353	1,126	0
22	0	0	0	0	0	0	0	0	698	1,329	777	0
23	0	0	0	0	0	0	0	0	777	1,255	786	0
24	0	0	0	0	0	0	0	0	944	1,211	828	0
25	0	0	0	0	0	0	0	0	1,194	1,165	806	0
26	0	0	0	0	0	0	0	0	1,270	1,168	745	0
27	0	0	0	0	0	0	0	0	1,273	1,112	467	0
28	0	0	0	0	0	0	0	0	1,273	1,059	57.0	0
29	0	0	0	0	0	0	0	0	1,305	1,037	0	0
30	0	0	0	0	-----	0	0	0	1,416	1,070	0	0
31	0	-----	0	0	-----	0	-----	0	-----	1,129	0	-----
TOTAL	0	0	0	0	0	0	0	0	14,246	41,166	31,945.0	0
MEAN	0	0	0	0	0	0	0	0	475	1,328	1,030	0
MAX	0	0	0	0	0	0	0	0	1,416	1,459	1,362	0
MIN	0	0	0	0	0	0	0	0	0	1,037	0	0
AC-FT	0	0	0	0	0	0	0	0	28,257	81,653	63,363	0
CAL YEAR 2003	MAX	1,510	MIN	0	AC-FT	188,738						
WTR YEAR 2004	MAX	1,459	MIN	0	AC-FT	173,273						



**FORT LARAMIE CANAL from North Platte River @ Mile Post 85.3, 00052200 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	498	546	14.0
2	0	0	0	0	0	0	0	0	0	557	561	0
3	0	0	0	0	0	0	0	0	0	579	561	0
4	0	0	0	0	0	0	0	0	0	581	561	0
5	0	0	0	0	0	0	0	0	0	570	561	0
6	0	0	0	0	0	0	0	0	0	574	553	0
7	0	0	0	0	0	0	0	0	0	583	555	0
8	0	0	0	0	0	0	0	0	0	568	553	0
9	0	0	0	0	0	0	0	0	0	559	548	0
10	0	0	0	0	0	0	0	0	0	555	553	0
11	0	0	0	0	0	0	0	0	0	559	568	0
12	0	0	0	0	0	0	0	0	0	437	570	0
13	0	0	0	0	0	0	0	0	0	583	574	0
14	0	0	0	0	0	0	0	0	0	585	574	0
15	0	0	0	0	0	0	0	0	0	590	572	0
16	0	0	0	0	0	0	0	0	0	594	570	0
17	0	0	0	0	0	0	0	0	0	601	564	0
18	0	0	0	0	0	0	0	0	0	596	557	0
19	0	0	0	0	0	0	0	0	0	610	561	0
20	0	0	0	0	0	0	0	0	182	612	557	0
21	0	0	0	0	0	0	0	0	179	608	551	0
22	0	0	0	0	0	0	0	0	0	617	517	0
23	0	0	0	0	0	0	0	0	93.0	628	244	0
24	0	0	0	0	0	0	0	0	70.0	608	80.0	0
25	0	0	0	0	0	0	0	0	117	585	63.0	0
26	0	0	0	0	0	0	0	0	334	583	87.0	0
27	0	0	0	0	0	0	0	0	412	577	86.0	0
28	0	0	0	0	0	0	0	0	465	572	72.0	0
29	0	0	0	0	0	0	0	0	467	577	63.0	0
30	0	0	0	0	-----	0	0	0	463	555	46.0	0
31	0	-----	0	0	-----	0	-----	0	-----	531	0	-----
TOTAL	0	0	0	0	0	0	0	0	2,782.0	17,832	13,028.0	14.0
MEAN	0	0	0	0	0	0	0	0	92.7	575	420	.5
MAX	0	0	0	0	0	0	0	0	467	628	574	14.0
MIN	0	0	0	0	0	0	0	0	0	437	0	0
AC-FT	0	0	0	0	0	0	0	0	5,518	35,370	25,841	27.8
CAL YEAR 2003	MAX	632	MIN	0	AC-FT	77,212						
WTR YEAR 2004	MAX	628	MIN	0	AC-FT	66,757						

## NORTH PLATTE RIVER BASIN

## INTERSTATE CANAL from North Platte River, 00071000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	994	1,195	1,503	0
2	0	0	0	0	0	0	0	0	997	1,400	1,506	0
3	0	0	0	0	0	0	0	0	1,006	1,471	1,561	0
4	0	0	0	0	0	0	0	0	1,006	1,638	1,556	0
5	0	0	0	0	0	0	0	0	1,006	1,638	1,561	0
6	0	0	0	0	0	0	0	0	1,011	1,720	1,561	0
7	0	0	0	0	0	0	0	0	1,021	1,769	1,561	0
8	0	0	0	0	0	0	0	0	1,042	1,812	1,561	0
9	0	0	0	0	0	0	0	0	1,100	1,800	1,564	0
10	0	0	0	0	0	0	0	0	1,100	1,824	1,591	0
11	0	0	0	0	0	0	0	0	1,098	1,828	1,615	0
12	0	0	0	0	0	0	0	0	1,100	1,821	1,609	0
13	0	0	0	0	0	0	0	0	1,098	1,790	1,612	0
14	0	0	0	0	0	0	0	0	1,137	1,711	1,612	0
15	0	0	0	0	0	0	0	0	1,355	1,732	1,612	0
16	0	0	0	0	0	0	0	0	1,509	1,735	1,609	0
17	0	0	0	0	0	0	0	0	1,606	1,702	1,612	0
18	0	0	0	0	0	0	0	0	1,659	1,696	1,609	0
19	0	0	0	0	0	0	0	0	1,556	1,702	1,603	0
20	0	0	0	0	0	0	0	0	1,497	1,668	1,609	0
21	0	0	0	0	0	0	0	0	1,403	1,656	1,606	0
22	0	0	0	0	0	0	0	0	219	1,659	1,609	0
23	0	0	0	0	0	0	0	0	0	1,570	1,600	0
24	0	0	0	0	0	0	0	612	0	1,451	1,600	0
25	0	0	0	0	0	0	0	942	0	1,417	1,300	0
26	0	0	0	0	0	0	0	957	0	1,420	680	0
27	0	0	0	0	0	0	0	972	0	1,417	56.0	0
28	0	0	0	0	0	0	0	992	0	1,403	0	0
29	0	0	0	0	0	0	0	999	737	1,451	0	0
30	0	0	0	0	-----	0	0	992	1,031	1,497	0	0
31	0	-----	0	0	-----	0	-----	987	-----	1,497	0	-----
TOTAL	0	0	0	0	0	0	0	7,453	27,288	50,090	40,078.0	0
MEAN	0	0	0	0	0	0	0	240	910	1,616	1,293	0
MAX	0	0	0	0	0	0	0	999	1,659	1,828	1,615	0
MIN	0	0	0	0	0	0	0	0	0	1,195	0	0
AC-FT	0	0	0	0	0	0	0	14,783	54,126	99,354	79,495	0
CAL YEAR 2003	MAX	2,070	MIN	0	AC-FT	304,850						
WTR YEAR 2004	MAX	1,828	MIN	0	AC-FT	247,757						

## LAKE ALICE RESERVOIR from North Platte, 00400300 - 2004

LOCATION.--Sec. 8 &amp; 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 (Feet)	CONTENT (Acre-feet)
Top of conservation pool	4192.0	11,100
Top of dead storage pool	4159.0	0

## DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	363	102	33.0	33.0	33.0	33.0	31.0	31.0	1,433	3,101	3,857	420
2	350	93.0	33.0	33.0	33.0	33.0	31.0	31.0	1,668	3,522	3,669	418
3	339	86.0	33.0	33.0	33.0	33.0	31.0	31.0	1,918	3,741	3,435	415
4	329	74.0	33.0	33.0	33.0	33.0	31.0	31.0	2,197	3,919	3,237	422
5	318	66.0	33.0	33.0	33.0	33.0	31.0	31.0	2,456	4,088	3,049	502
6	310	57.0	33.0	33.0	33.0	33.0	31.0	31.0	2,729	4,231	2,855	489
7	298	51.0	33.0	33.0	33.0	33.0	31.0	31.0	3,060	4,306	2,699	481
8	277	44.0	33.0	33.0	33.0	33.0	31.0	31.0	3,333	4,363	2,523	479
9	265	38.0	33.0	33.0	33.0	33.0	31.0	31.0	3,658	4,387	2,365	479
10	260	36.0	33.0	33.0	33.0	31.0	31.0	31.0	4,009	4,369	2,281	466
11	250	36.0	33.0	33.0	33.0	31.0	31.0	31.0	4,392	4,346	2,183	439
12	238	36.0	33.0	33.0	33.0	31.0	31.0	31.0	4,751	4,334	2,133	439
13	234	35.0	33.0	33.0	33.0	31.0	31.0	31.0	5,113	4,323	2,056	434
14	222	35.0	33.0	33.0	33.0	31.0	31.0	31.0	5,465	4,306	2,002	432
15	214	35.0	33.0	33.0	33.0	31.0	31.0	31.0	5,666	4,259	1,953	404
16	209	34.0	33.0	33.0	33.0	31.0	31.0	31.0	5,786	4,231	1,896	401
17	204	33.0	33.0	33.0	33.0	31.0	31.0	31.0	5,786	4,248	1,830	381
18	194	33.0	33.0	33.0	33.0	31.0	31.0	31.0	5,837	4,283	1,744	372
19	188	33.0	33.0	33.0	33.0	31.0	31.0	31.0	5,869	4,283	1,681	370
20	179	33.0	33.0	33.0	33.0	31.0	31.0	31.0	5,856	4,271	1,643	361
21	173	33.0	33.0	33.0	33.0	31.0	31.0	31.0	5,773	4,236	1,626	356
22	164	33.0	33.0	33.0	33.0	31.0	31.0	31.0	5,685	4,202	1,639	350
23	156	33.0	33.0	33.0	33.0	31.0	31.0	31.0	5,291	4,231	1,651	339
24	151	33.0	33.0	33.0	33.0	31.0	31.0	31.0	4,715	4,329	1,660	331
25	143	33.0	33.0	33.0	33.0	31.0	31.0	31.0	3,992	4,387	1,681	318
26	139	33.0	33.0	33.0	33.0	31.0	31.0	31.0	3,451	4,421	1,613	310
27	133	33.0	33.0	33.0	33.0	31.0	31.0	32.0	3,408	4,439	1,338	302
28	121	33.0	33.0	33.0	33.0	31.0	31.0	427	3,360	4,427	1,100	288
29	117	33.0	33.0	33.0	33.0	31.0	31.0	670	3,317	4,346	845	286
30	111	33.0	33.0	33.0	-----	31.0	31.0	896	3,195	4,173	561	308
31	106	-----	33.0	33.0	-----	31.0	-----	1,133	-----	4,026	418	-----
MAX	363	102	33.0	33.0	33.0	33.0	31.0	1,133	5,869	4,439	3,857	502
MIN	106	33.0	33.0	33.0	33.0	31.0	31.0	31.0	1,433	3,101	418	286
CHANGE	-264	-73.0	0	0	0	-2.0	0	1,102	2,062	831	-3,608	-110
CAL YEAR 2003			MEAN	593	MAX	3,660	MIN	0				
WTR YEAR 2004			MEAN	943	MAX	5,869	MIN	31.0				

## NORTH PLATTE RIVER BASIN

## LITTLE LAKE ALICE RESERVOIR from North Platte River, 00405200 - 2004

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

## DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	245	210	162	147	125	113	101	90.0	384	274	328	271
2	244	209	161	147	124	111	100	89.0	379	287	325	272
3	248	210	161	146	123	111	100	89.0	380	298	317	273
4	247	211	160	145	123	109	99.0	89.0	392	306	308	281
5	243	209	159	144	123	109	99.0	89.0	392	310	306	295
6	244	208	159	143	123	108	99.0	88.0	387	314	306	292
7	238	204	158	142	123	108	99.0	87.0	394	316	309	288
8	238	202	158	141	122	108	98.0	87.0	386	323	302	286
9	246	199	158	141	122	108	98.0	86.0	379	326	296	284
10	238	197	157	140	122	107	98.0	85.0	379	325	295	278
11	236	197	157	139	121	107	97.0	84.0	381	323	293	277
12	234	191	157	139	121	107	97.0	84.0	388	321	297	275
13	233	188	156	138	120	106	97.0	84.0	396	315	295	274
14	234	186	156	138	120	106	96.0	83.0	376	320	294	275
15	231	184	156	137	120	106	96.0	83.0	369	321	292	273
16	228	183	155	136	119	106	95.0	82.0	369	325	290	276
17	228	181	155	135	118	105	95.0	82.0	375	325	290	270
18	224	178	154	134	118	105	95.0	81.0	376	327	284	273
19	220	172	154	134	117	104	95.0	81.0	381	327	282	271
20	219	168	153	133	117	104	94.0	80.0	380	327	281	269
21	231	167	153	132	116	104	94.0	80.0	372	327	279	273
22	229	165	153	131	116	104	93.0	80.0	367	333	276	274
23	231	164	152	131	115	104	93.0	80.0	362	343	276	272
24	234	163	152	130	115	104	93.0	79.0	349	344	277	269
25	221	163	151	129	115	104	92.0	78.0	329	347	277	270
26	220	163	150	128	115	103	92.0	78.0	301	351	279	270
27	222	163	149	128	114	103	92.0	77.0	277	349	272	268
28	220	163	149	127	114	103	92.0	173	263	347	264	267
29	216	162	149	126	114	102	91.0	259	257	346	263	265
30	214	162	149	125	-----	102	90.0	310	260	341	267	263
31	210	-----	148	125	-----	101	-----	346	-----	342	270	-----
MAX	248	211	162	147	125	113	101	346	396	351	328	295
MIN	210	162	148	125	114	101	90.0	77.0	257	274	263	263
CHANGE	-39.0	-48.0	-14.0	-23.0	-11.0	-13.0	-11.0	256	-86.0	82.0	-72.0	-7.0
CAL YEAR 2003			MEAN	168	MAX	376	MIN	17.0				
WTR YEAR 2004			MEAN	199	MAX	396	MIN	77.0				

## LAKE MINATARE RESERVOIR from North Platte, 00406300 - 2004

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

GAGE.--Staff gage

PERIOD OF RECORD.--1977 - present

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

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

## DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,309	8,056	7,786	7,637	7,420	7,314	7,467	7,321	8,753	25,597	15,806	7,801
2	8,301	8,048	7,778	7,637	7,413	7,306	7,459	7,314	9,382	25,567	15,566	7,825
3	8,309	8,048	7,778	7,629	7,405	7,299	7,459	7,314	9,965	25,444	15,304	7,833
4	8,301	8,048	7,770	7,621	7,405	7,291	7,451	7,306	10,600	25,231	15,020	7,904
5	8,293	8,040	7,762	7,613	7,405	7,291	7,443	7,299	11,190	24,898	14,705	8,048
6	8,293	8,040	7,762	7,606	7,398	7,283	7,436	7,299	11,769	24,508	14,566	8,048
7	8,293	7,888	7,754	7,598	7,398	7,283	7,436	7,291	12,407	24,046	14,371	8,056
8	8,284	7,888	7,754	7,590	7,398	7,283	7,428	7,283	12,986	23,574	14,199	8,073
9	8,284	7,896	7,754	7,582	7,390	7,276	7,436	7,276	13,591	23,122	14,029	8,065
10	8,284	7,896	7,746	7,575	7,382	7,276	7,436	7,268	14,211	22,631	13,815	8,073
11	8,284	7,888	7,738	7,567	7,382	7,567	7,428	7,261	14,810	22,117	13,524	8,081
12	8,276	7,880	7,738	7,559	7,382	7,567	7,420	7,261	15,458	21,595	13,204	8,089
13	8,276	7,880	7,738	7,544	7,375	7,567	7,413	7,261	16,121	21,051	12,867	8,065
14	8,268	7,865	7,731	7,536	7,375	7,567	7,405	7,246	16,785	20,515	12,502	8,089
15	8,268	7,873	7,731	7,528	7,375	7,559	7,405	7,230	17,462	20,039	12,164	8,081
16	8,260	7,873	7,723	7,520	7,367	7,559	7,405	7,215	18,255	19,623	11,883	8,081
17	8,252	7,865	7,715	7,513	7,352	7,551	7,398	7,208	19,091	19,223	11,575	7,976
18	8,252	7,857	7,707	7,505	7,352	7,544	7,390	7,200	19,904	18,801	11,311	7,976
19	8,129	7,849	7,699	7,497	7,344	7,544	7,390	7,193	20,776	18,384	11,081	7,968
20	8,121	7,841	7,699	7,490	7,344	7,544	7,382	7,185	21,679	17,972	10,824	7,960
21	8,113	7,833	7,691	7,482	7,336	7,544	7,382	7,185	22,516	17,525	10,562	7,976
22	8,113	7,825	7,684	7,474	7,336	7,544	7,375	7,178	23,325	17,210	10,265	7,960
23	8,097	7,825	7,684	7,467	7,329	7,505	7,367	7,178	24,135	17,022	9,974	7,992
24	8,089	7,817	7,684	7,459	7,329	7,505	7,367	7,170	24,808	16,860	9,671	7,976
25	8,081	7,809	7,676	7,459	7,321	7,497	7,359	7,163	25,399	16,723	9,382	7,952
26	8,073	7,809	7,668	7,459	7,321	7,513	7,359	6,750	25,935	16,612	9,099	7,960
27	8,081	7,801	7,660	7,451	7,314	7,513	7,352	6,743	25,873	16,501	8,822	7,976
28	8,081	7,801	7,652	7,443	7,314	7,497	7,344	7,058	25,781	16,365	8,483	7,952
29	8,073	7,801	7,652	7,436	7,314	7,490	7,336	7,291	25,704	16,255	8,154	7,944
30	8,065	7,793	7,652	7,428	-----	7,482	7,329	7,738	25,658	16,133	7,801	7,928
31	8,056	-----	7,645	7,428	-----	7,467	-----	8,268	-----	15,987	7,793	-----
MAX	8,309	8,056	7,786	7,637	7,420	7,567	7,467	8,268	25,935	25,597	15,806	8,089
MIN	8,056	7,793	7,645	7,428	7,314	7,276	7,329	6,743	8,753	15,987	7,793	7,801
CHANGE	-253	-263	-148	-217	-114	153	-138	939	17,390	-9,671	-8,194	135
CAL YEAR 2003			MEAN	10,638	MAX	29,100	MIN	7,645				
WTR YEAR 2004			MEAN	9,930	MAX	25,935	MIN	6,743				

## NORTH PLATTE RIVER BASIN

## WINTERS CREEK RESERVOIR, 00412000 - 2004

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 MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	617	570	550	523	474	452	430	403	550	0	0	0
2	615	570	550	523	472	449	428	402	550	0	0	0
3	615	570	550	522	470	449	428	402	550	0	0	0
4	615	570	550	520	470	447	427	400	550	0	0	0
5	615	570	548	518	470	447	427	399	550	0	0	0
6	613	570	548	516	469	446	427	399	550	0	0	0
7	613	570	548	515	469	446	425	397	550	0	0	0
8	613	568	548	513	469	446	423	396	550	0	0	0
9	611	568	546	511	467	444	423	394	550	0	0	0
10	611	568	546	509	467	442	423	392	550	0	0	0
11	611	566	545	508	472	442	422	391	550	0	0	0
12	590	565	545	506	467	442	420	391	550	0	0	0
13	590	565	543	504	465	441	420	389	550	0	0	0
14	588	550	543	502	465	441	419	388	550	0	0	0
15	588	550	543	501	464	439	417	386	550	0	0	0
16	588	550	541	499	464	439	416	385	550	0	0	0
17	587	550	541	497	462	438	416	385	0	0	0	0
18	587	550	539	496	460	438	416	383	0	0	0	0
19	577	550	539	494	459	438	416	382	0	0	0	0
20	576	550	537	492	459	438	414	380	0	0	0	0
21	576	550	536	490	457	438	414	380	0	0	0	0
22	574	550	534	489	457	438	412	379	0	0	0	0
23	574	550	534	487	455	436	411	379	0	0	0	0
24	574	550	534	485	455	436	411	378	0	0	0	0
25	574	550	532	484	454	436	409	376	0	0	0	0
26	572	550	530	482	454	434	409	376	0	0	0	0
27	572	550	529	480	452	434	408	375	0	0	0	0
28	572	550	527	479	452	434	408	550	0	0	0	0
29	570	550	527	477	452	433	406	550	0	0	0	0
30	570	550	527	475	-----	431	405	550	0	0	0	0
31	570	-----	525	475	-----	430	-----	550	-----	0	0	-----
MAX	617	570	550	523	474	452	430	550	550	0	0	0
MIN	570	550	525	475	452	430	405	375	0	0	0	0
CHANGE	-47.0	-20.0	-25.0	-50.0	-23.0	-22.0	-25.0	145	-550	0	0	0
CAL YEAR 2003			MEAN	512	MAX	926	MIN	247				
WTR YEAR 2004			MEAN	351	MAX	617	MIN	0				

**MITCHELL & GERING CANAL from North Platte River, 00101100 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	105	138	221	246	191
2	0	0	0	0	0	0	0	105	153	254	246	191
3	0	0	0	0	0	0	0	104	159	325	255	190
4	0	0	0	0	0	0	0	101	175	353	259	191
5	0	0	0	0	0	0	0	99.0	188	355	265	191
6	0	0	0	0	0	0	0	98.0	191	325	270	191
7	0	0	0	0	0	0	0	97.0	190	314	278	221
8	0	0	0	0	0	0	0	92.0	193	300	280	225
9	0	0	0	0	0	0	0	92.0	194	299	277	227
10	0	0	0	0	0	0	0	89.0	191	300	285	225
11	0	0	0	0	0	0	0	89.0	190	290	287	225
12	0	0	0	0	0	0	0	85.0	191	287	290	225
13	0	0	0	0	0	0	0	82.0	187	280	290	225
14	0	0	0	0	0	0	0	81.0	190	280	288	224
15	0	0	0	0	0	0	0	80.0	190	282	290	224
16	0	0	0	0	0	0	0	79.0	227	290	292	224
17	0	0	0	0	0	0	0	76.0	251	290	288	224
18	0	0	0	0	0	0	0	64.0E	296	287	290	224
19	0	0	0	0	0	0	67.0	63.0E	311	280	290	224
20	0	0	0	0	0	0	110	60.0E	282	283	288	222
21	0	0	0	0	0	0	112	59.0E	201	282	287	222
22	0	0	0	0	0	0	115	58.0E	148	283	288	210
23	0	0	0	0	0	0	0	59.0E	142	272	290	197
24	0	0	0	0	0	0	110	58.0E	143	262	236	194
25	0	0	0	0	0	0	108	57.0E	171	233	191	198
26	0	0	0	0	0	0	106	58.0	175	233	188	201
27	0	0	0	0	0	0	104	57.0	174	233	190	201
28	0	0	0	0	0	0	128	60.0	194	236	190	168
29	0	0	0	0	0	0	103	63.0	222	235	190	145
30	0	0	0	0	-----	0	119	67.0	218	243	191	90.0
31	0	-----	0	0	-----	0	-----	100	-----	246	191	-----
TOTAL	0	0	0	0	0	0	1,182.0	2,437.0	5,875	8,653	7,986	6,110.0
MEAN	0	0	0	0	0	0	39.4	78.6	196	279	258	204
MAX	0	0	0	0	0	0	128	105	311	355	292	227
MIN	0	0	0	0	0	0	0	57.0	138	221	188	90.0
AC-FT	0	0	0	0	0	0	2,344	4,834	11,653	17,163	15,840	12,119
CAL YEAR 2003	MAX	0	MIN	0	AC-FT	0						
WTR YEAR 2004	MAX	355	MIN	0	AC-FT	63,954						

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

**GERING CANAL from North Platte River via Mitchell and Gering Canal, 00056000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41							6.7	30	83	122	7.3
2	0							5.9	23	99	122	8.6
3	0							5.9	33	129	121	5.9
4	0							5.8	6.2	154	121	8.1
5	0							5.3	.73	149	120	23
6	0							5.0	1.3	141	129	18
7	0							4.6	1.6	139	126	41
8	0							4.1	1.6	128	130	75
9	0							3.9	8.1	125	126	78
10	0							3.6	9.0	132	127	78
11	0							3.4	6.1	127	128	79
12	0							3.1	6.4	121	122	83
13	0							2.8	6.8	127	125	86
14	0							2.5	6.3	132	125	89
15	0							2.3	3.5	141	121	83
16	0							2.2	33	141	120	85
17	0							2.1	49	133	121	92
18	0							1.9	84	132	122	97
19	0							1.9	125	135	125	106
20	0							3.3	130	134	128	111
21								2.7	63	133	125	117
22								3.3	24	153	126	125
23								2.8	6.4	148	129	115
24								3.7	17	144	119	108
25								3.3	32	137	42	105
26								3.4	48	123	22	110
27								2.7	47	124	12	116
28								2.5	71	126	11	115
29							6.7E	2.2	93	124	8.3	80
30					-----		6.7	2.0	100	125	9.0	90
31		-----			-----		-----	14	-----	124	7.0	-----
TOTAL	41						13.4	118.9	1,066.03	4,063	3,091.3	2,334.9
MEAN	2.05						6.70	3.84	35.5	131	99.7	77.8
MAX	41						6.7	14	130	154	130	125
MIN	0						6.7	1.9	.73	83	7.0	5.9
AC-FT	81						27	236	2,110	8,060	6,130	4,630
CAL YEAR 2003	MAX	149	MIN	0	AC-FT	23,570						
WTR YEAR 2004	MAX	154	MIN	0	AC-FT	21,280						



**TRI-STATE CANAL from North Platte River, 00145100 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	0	1,163	321
2								0	0	0	1,200	229
3								0	0	95.0	1,200	0
4								0	0	505	1,200	0
5								0	0	800	1,168	0
6								0	0	1,102	1,168	0
7								0	0	1,180	1,168	0
8								0	0	1,296	1,168	0
9								0	0	1,382	1,143	0
10								0	0	1,300	1,143	0
11								0	0	1,300	1,143	0
12								0	0	1,300	1,143	0
13								0	0	1,300	1,143	0
14								0	0	1,300	1,143	0
15								0	0	1,300	1,143	0
16								0	0	1,300	1,143	0
17								0	0	1,300	1,143	0
18								0	0	1,200	1,143	0
19								0	0	1,200	707	0
20								0	0	1,200	380	0
21								0	0	1,250	380	0
22								0	0	1,250	416	0
23								0	0	1,250	412	0
24								0	0	1,306	415	0
25								0	0	1,242	373	0
26								0	0	1,242	383	0
27								0	0	1,242	393	0
28								0	28.0	1,242	385	0
29								0	0	1,200	397	0
30								0	0	1,200	359	0
31		-----			-----		-----	0	-----	1,177	343	-----
TOTAL								0	28.0	33,961.0	26,208	550
MEAN								0	.9	1,096	845	18.3
MAX								0	28.0	1,382	1,200	321
MIN								0	0	0	343	0
AC-FT								0	55.5	67,362	51,984	1,091
CAL YEAR 2003	MAX	1,280	MIN	0	AC-FT	139,043						
WTR YEAR 2004	MAX	1,382	MIN	0	AC-FT	120,492						

# NORTH PLATTE RIVER BASIN

**TRI-STATE CANAL from Sheep Creek, 00144700 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	34.0	34.0
2	0	0	0	0	0	0	0	0	0	0	32.0	32.0
3	0	0	0	0	0	0	0	0	0	0	33.0	24.0
4	0	0	0	0	0	0	0	0	0	0	32.0	34.0
5	0	0	0	0	0	0	0	0	0	0	33.0	45.0
6	0	0	0	0	0	0	0	0	0	4.0	33.0	43.0
7	0	0	0	0	0	0	0	0	0	20.0	32.0	15.0
8	0	0	0	0	0	0	0	0	0	21.0	32.0	0
9	0	0	0	0	0	0	0	0	0	26.0	33.0	0
10	0	0	0	0	0	0	0	0	0	21.0	32.0	0
11	0	0	0	0	0	0	0	0	0	21.0	34.0	0
12	0	0	0	0	0	0	0	0	0	21.0	34.0	0
13	0	0	0	0	0	0	0	0	0	19.0	36.0	0
14	0	0	0	0	0	0	0	0	0	21.0	37.0	0
15	0	0	0	0	0	0	0	0	0	21.0	36.0	0
16	0	0	0	0	0	0	0	0	0	21.0	37.0	0
17	0	0	0	0	0	0	0	0	0	20.0	38.0	0
18	0	0	0	0	0	0	0	0	0	21.0	38.0	0
19	0	0	0	0	0	0	0	0	0	22.0	40.0	0
20	0	0	0	0	0	0	0	0	0	21.0	41.0	0
21	0	0	0	0	0	0	0	0	0	19.0	40.0	0
22	0	0	0	0	0	0	0	0	0	26.0	38.0	0
23	0	0	0	0	0	0	0	0	0	32.0	36.0	0
24	0	0	0	0	0	0	0	0	0	37.0	36.0	0
25	0	0	0	0	0	0	0	0	0	37.0	38.0	0
26	0	0	0	0	0	0	0	0	0	32.0	38.0	0
27	0	0	0	0	0	0	0	0	0	33.0	40.0	0
28	0	0	0	0	0	0	0	0	0	33.0	38.0	0
29	0	0	0	0	0	0	0	0	0	32.0	36.0	0
30	0	0	0	0	-----	0	0	0	0	34.0	35.0	0
31	0	-----	0	0	-----	0	-----	0	-----	32.0	34.0	-----
TOTAL	0	0	0	0	0	0	0	0	0	647.0	1,106.0	227.0
MEAN	0	0	0	0	0	0	0	0	0	20.9	35.7	7.6
MAX	0	0	0	0	0	0	0	0	0	37.0	41.0	45.0
MIN	0	0	0	0	0	0	0	0	0	0	32.0	0
AC-FT	0	0	0	0	0	0	0	0	0	1,283	2,194	450
CAL YEAR 2003	MAX	61.0	MIN	0	AC-FT	7,018						
WTR YEAR 2004	MAX	45.0	MIN	0	AC-FT	3,927						

**TRI-STATE CANAL from Akers Draw, 00144500 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											8.0	5.0
2											8.0	5.0
3											10	5.0
4											10	4.0
5											7.0	5.0
6											7.0	5.0
7											7.0	5.0
8										11	7.0	6.0
9										22	5.0	6.0
10										17	3.0	6.0
11										19	9.0	6.0
12										18	9.0	6.0
13										19	9.0	6.0
14										19	9.0	6.0
15										23	9.0	6.0
16										19	9.0	6.0
17										12	6.0	6.0
18										10	6.0	6.0
19										26	6.0	6.0
20										29	6.0	6.0
21										37	6.0	7.0
22										6.0	6.0	7.0
23										6.0	8.0	7.0
24										12	8.0	7.0
25										11	8.0	7.0
26										9.0	9.0	7.0
27										10	8.0	7.0
28										9.0	7.0	7.0
29										9.0	7.0	7.0
30						-----				9.0	7.0	8.0
31		-----			-----		-----		-----	7.0	5.0	-----
TOTAL										369.0	229.0	183.0
MEAN										15.4	7.39	6.10
MAX										37	10	8.0
MIN										6.0	3.0	4.0
AC-FT										732	454	363
CAL YEAR 2003	MAX	15	MIN	0	AC-FT	2,660						
WTR YEAR 2004	MAX	37	MIN	3.0	AC-FT	1,550						

# NORTH PLATTE RIVER BASIN

**TRI-STATE CANAL from Dry Spotted Tail Creek, 00144600 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	9.0	2.0
2	0	0	0	0	0	0	0	0	0	0	8.0	0
3	0	0	0	0	0	0	0	0	0	0	8.0	2.0
4	0	0	0	0	0	0	0	0	0	0	8.0	3.0
5	0	0	0	0	0	0	0	0	0	0	8.0	5.0
6	0	0	0	0	0	0	0	0	0	0	8.0	0
7	0	0	0	0	0	0	0	0	0	0	8.0	0
8	0	0	0	0	0	0	0	0	0	2.0	8.0	0
9	0	0	0	0	0	0	0	0	0	3.0	8.0	0
10	0	0	0	0	0	0	0	0	0	3.0	8.0	0
11	0	0	0	0	0	0	0	0	0	3.0	5.0	0
12	0	0	0	0	0	0	0	0	0	4.0	3.0	0
13	0	0	0	0	0	0	0	0	0	5.0	0	0
14	0	0	0	0	0	0	0	0	0	5.0	3.0	0
15	0	0	0	0	0	0	0	0	0	6.0	2.0	0
16	0	0	0	0	0	0	0	0	0	7.0	3.0	0
17	0	0	0	0	0	0	0	0	0	5.0	3.0	0
18	0	0	0	0	0	0	0	0	0	5.0	7.0	0
19	0	0	0	0	0	0	0	0	0	5.0	11.0	0
20	0	0	0	0	0	0	0	0	0	5.0	9.0	0
21	0	0	0	0	0	0	0	0	0	6.0	7.0	0
22	0	0	0	0	0	0	0	0	0	7.0	7.0	0
23	0	0	0	0	0	0	0	0	0	9.0	7.0	0
24	0	0	0	0	0	0	0	0	0	10.0	6.0	0
25	0	0	0	0	0	0	0	0	0	10.0	6.0	0
26	0	0	0	0	0	0	0	0	0	8.0	6.0	0
27	0	0	0	0	0	0	0	0	0	7.0	6.0	0
28	0	0	0	0	0	0	0	0	0	8.0	5.0	0
29	0	0	0	0	0	0	0	0	0	8.0	4.0	0
30	0	0	0	0	-----	0	0	0	0	9.0	3.0	0
31	0	-----	0	0	-----	0	-----	0	-----	9.0	3.0	-----
TOTAL	0	0	0	0	0	0	0	0	0	149.0	187.0	12.0
MEAN	0	0	0	0	0	0	0	0	0	4.8	6.0	.4
MAX	0	0	0	0	0	0	0	0	0	10.0	11.0	5.0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	296	371	23.8
CAL YEAR 2003	MAX	20.0	MIN	0	AC-FT	1,916						
WTR YEAR 2004	MAX	11.0	MIN	0	AC-FT	690						

**TRI-STATE CANAL from Wet Spotted Tail Creek, 00144900 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	11.0	5.0	8.0	24.0	0
2	0	0	0	0	0	0	0	11.0	4.0	4.0	24.0	0
3	0	0	0	0	0	0	0	9.0	5.0	4.0	25.0	0
4	0	0	0	0	0	0	0	6.0	4.0	5.0	25.0	0
5	0	0	0	0	0	0	0	6.0	5.0	4.0	20.0	4.0
6	0	0	0	0	0	0	0	6.0	4.0	3.0	16.0	1.0
7	0	0	0	0	0	0	0	6.0	4.0	4.0	13.0	0
8	0	0	0	0	0	0	0	6.0	4.0	4.0	13.0	0
9	0	0	0	0	0	0	0	5.0	4.0	4.0	13.0	0
10	0	0	0	0	0	0	0	5.0	4.0	5.0	15.0	0
11	0	0	0	0	0	0	0	6.0	4.0	5.0	2.0	0
12	0	0	0	0	0	0	0	11.0	4.0	6.0	1.0	0
13	0	0	0	0	0	0	0	18.0	4.0	11.0	0	0
14	0	0	0	0	0	0	0	19.0	4.0	14.0	0	0
15	0	0	0	0	0	0	0	19.0	4.0	15.0	0	0
16	0	0	0	0	0	0	0	18.0	4.0	17.0	0	0
17	0	0	0	0	0	0	0	5.0	4.0	17.0	0	0
18	0	0	0	0	0	0	0	4.0	4.0	16.0	0	0
19	0	0	0	0	0	0	0	4.0	4.0	8.0	1.0	0
20	0	0	0	0	0	0	0	3.0	4.0	8.0	1.0	0
21	0	0	0	0	0	0	0	3.0	4.0	7.0	0	0
22	0	0	0	0	0	0	0	3.0	4.0	11.0	0	0
23	0	0	0	0	0	0	0	3.0	4.0	10.0	0	0
24	0	0	0	0	0	0	0	3.0	5.0	10.0	0	0
25	0	0	0	0	0	0	0	3.0	5.0	10.0	0	0
26	0	0	0	0	0	0	0	3.0	6.0	10.0	0	0
27	0	0	0	0	0	0	0	3.0	6.0	15.0	1.0	0
28	0	0	0	0	0	0	0	4.0	5.0	12.0	1.0	0
29	0	0	0	0	0	0	0	4.0	7.0	12.0	0	0
30	0	0	0	0	-----	0	0	4.0	9.0	13.0	0	0
31	0	-----	0	0	-----	0	-----	5.0	-----	20.0	0	-----
TOTAL	0	0	0	0	0	0	0	216.0	138.0	292.0	195.0	5.0
MEAN	0	0	0	0	0	0	0	7.0	4.6	9.4	6.3	.2
MAX	0	0	0	0	0	0	0	19.0	9.0	20.0	25.0	4.0
MIN	0	0	0	0	0	0	0	3.0	4.0	3.0	0	0
AC-FT	0	0	0	0	0	0	0	428	274	579	387	9.9
CAL YEAR 2003	MAX	8.0	MIN	0	AC-FT	268						
WTR YEAR 2004	MAX	25.0	MIN	0	AC-FT	1,678						

## NORTH PLATTE RIVER BASIN

## TRI-STATE CANAL from Tub Springs, 00144800 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	20.0	16.0
2	0	0	0	0	0	0	0	0	0	3.0	19.0	16.0
3	0	0	0	0	0	0	0	0	0	4.0	19.0	15.0
4	0	0	0	0	0	0	0	0	0	4.0	19.0	15.0
5	0	0	0	0	0	0	0	0	0	0	19.0	18.0
6	0	0	0	0	0	0	0	0	0	5.0	19.0	13.0
7	0	0	0	0	0	0	0	0	0	6.0	18.0	8.0
8	0	0	0	0	0	0	0	0	0	6.0	19.0	0
9	0	0	0	0	0	0	0	0	0	8.0	19.0	0
10	0	0	0	0	0	0	0	0	0	8.0	20.0	0
11	0	0	0	0	0	0	0	0	0	8.0	19.0	0
12	0	0	0	0	0	0	0	0	0	8.0	20.0	0
13	0	0	0	0	0	0	0	0	0	10.0	21.0	0
14	0	0	0	0	0	0	0	0	0	11.0	19.0	0
15	0	0	0	0	0	0	0	0	0	13.0	19.0	0
16	0	0	0	0	0	0	0	0	0	13.0	19.0	0
17	0	0	0	0	0	0	0	0	0	12.0	20.0	0
18	0	0	0	0	0	0	0	0	0	12.0	20.0	0
19	0	0	0	0	0	0	0	0	0	11.0	19.0	0
20	0	0	0	0	0	0	0	0	0	13.0	20.0	0
21	0	0	0	0	0	0	0	0	0	14.0	19.0	0
22	0	0	0	0	0	0	0	0	0	17.0	20.0	0
23	0	0	0	0	0	0	0	0	0	19.0	21.0	0
24	0	0	0	0	0	0	0	0	0	18.0	21.0	0
25	0	0	0	0	0	0	0	0	0	17.0	21.0	0
26	0	0	0	0	0	0	0	0	0	17.0	24.0	0
27	0	0	0	0	0	0	0	0	0	17.0	21.0	0
28	0	0	0	0	0	0	0	0	0	18.0	19.0	0
29	0	0	0	0	0	0	0	0	0	18.0	16.0	0
30	0	0	0	0	-----	0	0	0	0	18.0	15.0	0
31	0	-----	0	0	-----	0	-----	0	-----	19.0	15.0	-----
TOTAL	0	0	0	0	0	0	0	0	0	347.0	599.0	101.0
MEAN	0	0	0	0	0	0	0	0	0	11.2	19.3	3.4
MAX	0	0	0	0	0	0	0	0	0	19.0	24.0	18.0
MIN	0	0	0	0	0	0	0	0	0	0	15.0	0
AC-FT	0	0	0	0	0	0	0	0	0	688	1,188	200
CAL YEAR 2003	MAX	25.0	MIN	0	AC-FT	2,222						
WTR YEAR 2004	MAX	24.0	MIN	0	AC-FT	2,077						

**NORTHPORT CANAL from North Platte River and Drains via Tri-State Canal, 00115100 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	0	264	223
2									0	0	271	195
3									0	0	270	151
4									0	0	277	95
5									0	0	274	23
6									0	23	272	3.7
7									0	199	276	2.4
8									0	200	274	1.5
9									0	208	271	.98
10									0	226	268	.85
11									0	148	263	.67
12								0	0	176	264	.60
13								0	0	197	241	.50
14								0	0	225	247	.50
15								0	0	240	242	
16								0	0	262	244	
17								0	0	277	236	
18								0	0	258	225	
19								0	0	221	215	
20								0	0	216	168	
21								0	0	228	229	
22								0	0	250	267	
23								0	0	283	275	
24								0	0	281	280	
25								0	0	267	270	
26								0	0	257	281	
27								0	0	269	273	
28								0	0	265	292	
29								0	0	263	278	
30					-----			0	0	269	283	
31		-----			-----		-----	0	-----	264	260	-----
TOTAL								0	0	5,972	8,050	698.70
MEAN								0	0	193	260	49.9
MAX								0	0	283	292	223
MIN								0	0	0	168	.50
AC-FT								0	0	11,850	15,970	1,390
CAL YEAR 2003	MAX	296	MIN	0	AC-FT	29,770						
WTR YEAR 2004	MAX	292	MIN	0	AC-FT	29,200						

# NORTH PLATTE RIVER BASIN

## HORSE CREEK near Lyman, 06677500 - 2004

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 583 cubic feet per second July 22, gage height 5.72 feet; minimum daily discharge 3.3 cubic feet per second on May 29.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	18	14	9.0	6.4	9.0E	6.3	5.2	3.6	23	50	92
2	24	18	13	9.0	10 E	9.0E	6.1	5.0	3.7	16	49	117
3	23	19	13	8.0E	10 E	6.5	6.2	5.1	3.4	15	46	69
4	23	18	13	7.0E	10 E	11	6.4	5.5	3.4	17	39	52
5	22	17	12 E	5.0E	10 E	13	6.1	4.8	4.3	16	53	75
6	22	17	12	5.0E	10 E	15	6.0	4.7	4.6	16	64	58
7	22	16	13	6.0E	10 E	14	5.9	4.4	4.4	16	63	47
8	21	16	13	7.0E	9.0E	19	6.1	4.2	3.7	14	64	46
9	21	16	13	8.0E	9.0E	23	7.2	4.2	4.5	15	54	43
10	21	15	12 E	8.0E	9.0E	20	7.3	4.2	4.4	47	54	38
11	21	15	12 E	8.0E	8.0E	15	6.9	4.0	3.9	21	51	35
12	21	14	12 E	7.5	10 E	14	7.0	4.3	3.9	21	41	33
13	20	14	12 E	7.7	10 E	13	6.5	4.6	3.9	21	41	36
14	20	14	12 E	8.2	11	12	6.2	4.6	4.1	20	40	34
15	20	14	12	7.8	8.8	11	6.0	4.4	4.4	24	41	33
16	19	14	12 E	8.4	9.6	11	5.7	4.3	4.9	30	44	31
17	18	14	13	8.0	10	10	5.6	4.3	5.0	30	45	31
18	18	14	12	8.0	13	9.8	5.4	4.3	6.2	30	45	33
19	17	14	13	7.7	13	9.2	53	3.8	5.9	36	46	32
20	16	13	11	8.1	12	8.7	33	3.9	95	41	50	32
21	15	13	11	7.4	11	7.9	5.8	3.7	235	40	49	36
22	15	12E	11	7.3	10	7.5	6.9	3.8	122	243	45	38
23	14	12E	10	7.3	10	7.4	7.0	3.5	90	215	48	33
24	14	12E	10	7.4	10	7.2	6.1	3.3	106	182	127	30
25	15	12E	9.7	7.8	9.7	7.0	5.5	3.3	70	169	140	29
26	16	14E	10	7.0E	9.7	7.0	5.3	3.4	132	151	138	29
27	16	14E	9.0E	7.0E	9.8	6.7	4.8	3.3	134	151	153	28
28	16	14E	9.0E	7.0E	9.7	6.7	4.7	3.4	129	160	142	27
29	16	14	9.0E	7.0E	9.6E	6.6	4.7	3.3	99	156	134	27
30	16	15	9.0E	7.5	-----	6.5	5.4	3.4	54	110	117	27
31	18	-----	9.0E	7.3	-----	6.4	-----	3.6	-----	64	83	-----
TOTAL	585	442	355.7	231.4	288.3	330.1	255.1	127.8	1,348.2	2,110	2,156	1,271
MEAN	18.9	14.7	11.5	7.46	9.94	10.6	8.50	4.12	44.9	68.1	69.5	42.4
MAX	25	19	14	9.0	13	23	53	5.5	235	243	153	117
MIN	14	12	9.0	5.0	6.4	6.4	4.7	3.3	3.4	14	39	27
AC-FT	1,160	877	706	459	572	655	506	253	2,670	4,190	4,280	2,520
CAL YEAR 2003	TOTAL	9,517.10	MEAN	26.1	MAX	362	MIN	5.9	AC-FT	18,880		
WTR YEAR 2004	TOTAL	9,500.60	MEAN	26.0	MAX	243	MIN	3.3	AC-FT	18,840		

E indicates estimated discharge.



**SHEEP CREEK near Morrill, 06678000 - 2004**

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 65 cubic feet per second December 3, gage height 1.67 feet; maximum gage height 2.61 feet March 17 due to debris in the channel; minimum daily discharge 2.3 cubic feet per second September 7.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	52	57	51	51	44E	40	36	26	18	4.2	2.8
2	40	54	58	52	51	44E	40	36	25	2.8	4.3	2.8
3	41	54	58	52	52	44	40	34	24	2.6	4.1	2.8E
4	42	52	57	51	52	44	40	34	25	2.5	4.1	2.7E
5	42	48	57	50E	51	44	39	32	25	2.5	4.1	2.7E
6	41	48	53	50E	50	44	40	32	24	2.5	4.0	2.5E
7	40	50	54	52E	49	44	40	32	24	2.5	4.0	2.3
8	39	51	55	52	50	43	38	33	24	2.5	4.0	18
9	38	51	56	51	49	43	40	33	25	2.5	4.1	37
10	39	52	56E	51	48	43	40	32	25	2.6	4.1	38
11	39	51	56	51	48	43	40	33	25	2.5	4.0	38
12	40	51	56E	51	48E	42	39	32	25	2.6	4.1	38
13	41	51	56E	51	47	42	39	32	24	2.6	3.9	38
14	40	53	56	51	46	42	39	31	25	2.6	3.7	38
15	41	54	55	51	46	42	39	33	24	2.9	3.5	37
16	40	53	55	52	45	42	39	33	24	2.9	3.6	38
17	41	52	55	52	44	42	39	33	25	3.1	3.6	38
18	40	52	54	52	44	41	37	33	27	3.1	3.6	38
19	41	52	53	52	44	40	37	32	27	3.2	3.6	37
20	43	52E	53	52	45	40	37	31	26	3.4	3.4	36
21	44	53	52	52	44	40	38	32	26	3.4	3.4	41
22	44	54	52	51	45	40	40	31	26	3.6	3.5	40
23	45	54	52	52	46	41	39	31	25	3.6	3.4	40
24	45	55	52	52	45	40	38	30	26	3.5	3.3	40
25	45	55	52	51	45	39	38	29	26	3.6	3.2	39
26	46	55	52	50	45	39	37	30	25	3.6	3.1	39
27	46	56	52	51	44	39	36	30	26	3.8	3.0	39
28	45	57	52	51	44	37	35	29	26	3.8	2.8	38
29	42	56	51	51	44E	38	35	28	25	3.8	2.7	37
30	45	56	51	50	-----	38	36	28	26	3.9	2.8	39
31	49	-----	51	50	-----	40	-----	27	-----	3.9	2.8	-----
TOTAL	1,305	1,584	1,679	1,588	1,362	1,284	1,154	982	756	110.4	112.0	879.6
MEAN	42.1	52.8	54.2	51.2	47.0	41.4	38.5	31.7	25.2	3.56	3.61	29.3
MAX	49	57	58	52	52	44	40	36	27	18	4.3	41
MIN	38	48	51	50	44	37	35	27	24	2.5	2.7	2.3
AC-FT	2,590	3,140	3,330	3,150	2,700	2,550	2,290	1,950	1,500	219	222	1,740
CAL YEAR 2003 TOTAL		14,270.10	MEAN	39.1	MAX	66	MIN	2.3	AC-FT	28,300		
WTR YEAR 2004 TOTAL		12,796.00	MEAN	35.0	MAX	58	MIN	2.3	AC-FT	25,380		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

**ENTERPRISE CANAL from North Platte River, 00040000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68						0	37	33	65	77	75
2	68						0	39	32	52	74	89
3	70						0	38	32	50	84	99
4	70						0	38	32	52	92	102
5	70						0	37	33	53	90	110
6	67						0	37	34	53	92	108
7	66						0	37	34	51	89	95
8	65						0	36	37	50	91	92
9	64						0	36	40	58	90	92
10	62						0	36	41	77	84	91
11	61						0	36	45	62	75	90
12	61						0	37	45	65	68	90
13	60						0	38	44	61	57	91
14	57						0	38	42	65	60	80
15	56						0	38	41	90	67	71
16	56						0	38	42	82	71	70
17	25						0	38	40	96	77	68
18	0						0	38	43	86	91	67
19	0						0	37	43	75	137	66
20							0	36	57	79	142	64
21							0	36	81	87	120	66
22							0	36	76	100	95	67
23							0	36	72	95	84	67
24							0	35	71	114	110	68
25						0	0	34	69	108	134	66
26						0	0	35	72	90	124	65
27						0	24	35	72	84	122	65
28						0	35	34	73	78	114	65
29						0	36	34	69	87	100	67
30					-----	0	36	34	68	89	90	68
31		-----			-----	0	-----	34	-----	84	80	-----
TOTAL	1,046					0	131	1,128	1,513	2,338	2,881	2,374
MEAN	55.1					0	4.37	36.4	50.4	75.4	92.9	79.1
MAX	70					0	36	39	81	114	142	110
MIN	0					0	0	34	32	50	57	64
AC-FT	2,070					0	260	2,240	3,000	4,640	5,710	4,710
CAL YEAR 2003	MAX	133	MIN	0	AC-FT	22,180						
WTR YEAR 2004	MAX	142	MIN	0	AC-FT	22,630						

**DRY SPOTTED TAIL CREEK at Mitchell, 06679000 - 2004**

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 record is fair.

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 106 cubic feet per second July 15, gage height 1.41 feet; minimum daily discharge, 2.9 cubic feet per second June 11.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	16	14	14	13	12	10	12	4.4	8.9	42	25
2	28	16	14	14	13	16	9.4	9.3	3.0	12	35	24
3	26	16	14	14	13	15	8.7	7.6	3.8	22	38	26
4	25	16	13	13	13	15	8.9	6.8	3.5	23	39	28
5	24	15	13	10	13	14	8.8	5.2	3.7	18	41	41
6	23	15	13	11 E	13	14	8.7	4.1	3.7	20	41	33
7	23	15	13	12	12	15	9.1	3.8	3.4	20	38	31
8	21	15	14	13	13	15	9.2	3.4	4.3	20	38	36
9	21	15	13	13	13	16	10	5.8	4.1	21	38	29
10	18	16	13	13	12	14	10	13	3.5	23	40	28
11	17	17	13	13	12	14	10	13	2.9	20	38	26
12	15	13	13	12	11	14	10	15	5.6	21	40	24
13	13	12	13	12	12	14	11	13	8.1	31	39	23
14	13	12	13	12	12	14	10	11	8.0	31	37	27
15	13	12	13	12	12	13	10	11	6.9	45	36	25
16	13	14	13	12	12	13	9.9	9.3	10	60	39	25
17	13	14	13	11	11	12	9.6	7.9	24	51	41	25
18	13	14	13	11	11	12	10	6.4	24	46	40	25
19	13	14	13	11	11	13	12	5.2	24	39	45	24
20	13	15	13	11	11	13	14	3.9	26	45	44	23
21	13	15	13	11	11	12	14	4.4	23	48	39	25
22	13	15	15	11	11	12	17	4.8	22	56	37	25
23	15	15	14	10	12	12	17	4.7	19	71	37	24
24	15	15	14	10	13	11	16	4.8	13	71	41	23
25	15	14	14	9.9	12	9.9	15	5.2	11	59	44	22
26	15	14	14	10	13	10	15	5.8	12	53	44	20
27	16	13	14	11	12	9.3	29	6.3	16	48	38	20
28	15	13	14	12	13	9.2	51	5.9	8.4	46	23	21
29	17	14	14	13	14	9.2	56	6.0	8.6	43	19	21
30	14	14	14	13	-----	11	24	5.8	9.6	46	18	27
31	15	-----	13	14	-----	11	-----	5.7	-----	46	18	-----
TOTAL	535	434	417	368.9	354	394.6	453.3	226.1	319.5	1,163.9	1,147	776
MEAN	17.3	14.5	13.5	11.9	12.2	12.7	15.1	7.29	10.7	37.5	37.0	25.9
MAX	28	17	15	14	14	16	56	15	26	71	45	41
MIN	13	12	13	9.9	11	9.2	8.7	3.4	2.9	8.9	18	20
AC-FT	1,060	861	827	732	702	783	899	448	634	2,310	2,280	1,540
CAL YEAR 2003 TOTAL		8,161.40	MEAN	22.4	MAX	70	MIN	7.0	AC-FT	16,190		
WTR YEAR 2004 TOTAL		6,589.30	MEAN	18.0	MAX	71	MIN	2.9	AC-FT	13,070		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at Mitchell, 06679500 - 2004

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 710 cubic feet per second July 24, gage height 2.47 feet; minimum daily discharge 67 cubic feet per second June 7.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	457	376	320E	293	278	248	236	104	85	131	240	188
2	491	383	322	291	275	248	234	100	85	108	204	228
3	478	383	318	287	275	246	235	96	67	106	212	265
4	457	381	315	281	280	249	235	94	72	110	223	307
5	444	380	307	260E	281	252	236	93	75	101	222	360
6	433	374	310	240E	270E	255	238	91	69	96	239	376
7	424	369	312	227	270	250	236	88	67	96	223	330
8	416	366	316	273	272	255	233	86	68	97	233	321
9	407	364	316	305	270	264	239	84	72	100	231	298
10	400	361	304	299	266	263	240	82	76	112	242	274
11	397	356	310	290	265	258	238	83	81	103	216	259
12	389	352	306	286	250	253	239	79	83	105	204	244
13	385	352	303	281	263	250	235	73	83	112	189	237
14	384	352	314	281	261	247	231	73	82	118	181	237
15	382	348	315	279	262	247	228	73	82	179	178	238
16	378	345	307	279	260	247	226	74	85	210	179	231
17	389	344	306	280	259	247	213	75	95	196	182	228
18	419	338	304	279	263	245	216	79	97	168	187	224
19	414	334	301	276	265	243	217	79	101	141	326	218
20	410E	333	302	274	262	241	221	76	118	146	609	215
21	400E	333	303	272	256	242	188	76	245	148	562	227
22	390E	335	305	272	255	242	162	75	287	306	416	246
23	390E	326	303	276	255	241	152	75	252	488	342	245
24	380E	330E	300	275	253	239	144	73	216	668	330	240
25	380E	330E	300	274	248	238	142	72	199	649	353	233
26	380E	330E	299	265	247	239	138	72	201	546	331	223
27	380E	330E	296	267	246	237	135	71	191	481	317	217
28	380E	320E	289	270E	246	238	135	70	210	417	294	228
29	375	320E	286	274	255	237	132	71	189	358	257	248
30	379	320E	292	275	-----	236	115	71	163	317	231	253
31	378	-----	289	276	-----	238	-----	69	-----	274	208	-----
TOTAL	12,566	10,465	9,470	8,557	7,608	7,635	6,069	2,477	3,796	7,187	8,361	7,638
MEAN	405	349	305	276	262	246	202	79.9	127	232	270	255
MAX	491	383	322	305	281	264	240	104	287	668	609	376
MIN	375	320	286	227	246	236	115	69	67	96	178	188
AC-FT	24,920	20,760	18,780	16,970	15,090	15,140	12,040	4,910	7,530	14,260	16,580	15,150
CAL YEAR 2003	TOTAL	102,629	MEAN	281	MAX	731	MIN	96	AC-FT	203,600		
WTR YEAR 2004	TOTAL	91,829	MEAN	251	MAX	668	MIN	67	AC-FT	182,100		

E indicates estimated discharge.

**TUB SPRINGS near Scottsbluff, 06680000 - 2004**

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 77 cubic feet per second October 17, gage height 1.25 feet; minimum daily discharge 11 cubic feet per second June 2 - 4, July 8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	25	22	19	19	18	14	21	12	26	27	20
2	58	27	22	19	19	18	14	17	11	19	25	19
3	57	25	22	19	18	18	14	17	11	13	25	21
4	54	25	22	19	18	18	15	16	11	12	25	23
5	54	24	21	19	18	18	15	16	12	14	27	33
6	53	24	21	18	18	17	15	16	12	12	28	26
7	53	24	21	18	18	17	15	16	12	12	27	26
8	56	24	21	18	18	17	15	16	12	11	28	31
9	55	24	21	18	18	16	15	15	13	12	25	31
10	57	24	21	18	18	16	15	14	13	15	23	32
11	60	23	21	19	18	16	15	19	13	13	23	33
12	59	23	21	19	18	16	15	18	13	13	23	33
13	57	23	21	18	18	16	15	16	14	13	24	34
14	57	23	20	18	18	16	15	17	14	13	23	41
15	62	22	20	19	18	16	15	16	14	15	22	36
16	65	23	20	19	18	15	15	15	14	18	21	35
17	64	22	20	19	18	15	15	15	16	15	22	33
18	24	22	20	19	18	15	15	15	20	16	23	31
19	21	22	20	19	18	15	16	15	20	15	25	31
20	21	22	20	19	18	15	16	13	21	17	25	31
21	22	22	20	19	18	14	16	13	27	19	23	32
22	23	22	20	19	18	14	17	13	33	23	22	37
23	23	22	20	18	18	14	17	13	48	29	20	36
24	23	22	19	18	18	15	16	13	45	31	21	35
25	24	22	19	18	18	14	16	12	34	31	21	35
26	23	22	19	18	18	15	16	12	30	28	25	36
27	24	22	19	18	18	15	16	12	28	27	25	37
28	24	22	19	18	18	15	16	12	31	27	24	37
29	24	21	19	18	18	14	16	12	31	27	20	37
30	25	20	18	18	-----	14	21	12	27	29	19	40
31	25	-----	18	18	-----	14	-----	13	-----	29	20	-----
TOTAL	1,304	688	627	573	524	486	466	460	612	594	731	962
MEAN	42.1	22.9	20.2	18.5	18.1	15.7	15.5	14.8	20.4	19.2	23.6	32.1
MAX	65	27	22	19	19	18	21	21	48	31	28	41
MIN	21	20	18	18	18	14	14	12	11	11	19	19
AC-FT	2,590	1,360	1,240	1,140	1,040	964	924	912	1,210	1,180	1,450	1,910
CAL YEAR 2003	TOTAL	7,730.60	MEAN	21.2	MAX	65	MIN	6.0	AC-FT	15,330		
WTR YEAR 2004	TOTAL	8,027.00	MEAN	21.9	MAX	65	MIN	11	AC-FT	15,920		

# NORTH PLATTE RIVER BASIN

## WINTERS CREEK CANAL from North Platte River, 00148000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	20	22	24	21
2							0	0	23	21	24	21
3							0	0	19	20	27	22
4							0	0	18	20	30	23
5							0	5.8	20	22	29	24
6							0	11	20	23	29	25
7							0	11	20	23	29	24
8							0	11	20	22	29	24
9							0	11	22	23	29	24
10							0	12	23	26	29	22
11							0	14	23	26	28	20
12							0	15	24	24	27	20
13							0	15	24	25	27	23
14							0	16	24	26	27	25
15							0	16	24	28	26	25
16							0	13	24	30	26	23
17							0	17	27	26	26	22
18							0	19	29	26	26	22
19							0	19	31	25	28	22
20							0	21	32	25	34	23
21							0	20	34	25	30	23
22							0	20	33	28	25	16
23							0	20	30	32	24	12
24							0	19	28	26	23	12
25							0	19	27	24	24	12
26						0	0	19	25	24	24	12
27						0	0	18	25	24	24	6.4
28						0	0	20	25	24	24	
29						0	0	20	24	23	23	
30					-----	0	0	20	23	24	22	
31		-----			-----	0	-----	20	-----	24	22	-----
TOTAL						0	0	441.8	741	761	819	548.4
MEAN						0	0	14.3	24.7	24.5	26.4	20.3
MAX						0	0	21	34	32	34	25
MIN						0	0	0	18	20	22	6.4
AC-FT						0	0	876	1,470	1,510	1,620	1,090
CAL YEAR 2003	MAX	43	MIN	0	AC-FT	5,930						
WTR YEAR 2004	MAX	34	MIN	0	AC-FT	6,570						

## WINTERS CREEK CANAL from Winters Creek, 00149000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	.39	28	37	8.5
2							0	0	8.0	28	36	.41
3							0	0	25	27	35	1.6
4							0	0	21	27	37	8.1
5							0	0	20	32	37	.85
6							0	0	22	29	33	16
7							0	0	22	29	30	28
8							0	0	24	27	33	25
9							0	0	28	24	37	22
10							0	8.0	16	26	38	22
11							0	14	.15	28	36	23
12							0	15	.07	27	36	24
13							0	18	17	26	35	25
14							0	20	30	28	35	26
15							0	21	31	29	36	26
16							0	21	30	31	35	22
17							0	20	30	31	35	18
18							0	20	31	29	36	19
19							0	20	31	28	38	19
20							0	20	35	29	38	18
21							0	19	35	29	35	18
22							0	23	37	35	34	14
23							0	23	36	42	35	8.4
24							0	25	27	42	36	6.0
25							0	25	35	38	36	7.2
26						0	0	26	33	35	39	3.0
27						0	0	26	33	36	40	0
28						0	0	26	33	36	39	0
29						0	0	26	33	35	36	
30					-----	0	0	27	30	38	35	
31		-----			-----	0	-----	12	-----	38	23	-----
TOTAL						0	0	455.0	753.61	967	1,101	409.06
MEAN						0	0	14.7	25.1	31.2	35.5	14.6
MAX						0	0	27	37	42	40	28
MIN						0	0	0	.07	24	23	0
AC-FT						0	0	902	1,490	1,920	2,180	811
CAL YEAR 2003	MAX	53	MIN	0	AC-FT	7,350						
WTR YEAR 2004	MAX	42	MIN	0	AC-FT	7,310						

# NORTH PLATTE RIVER BASIN

**CENTRAL CANAL from North Platte River, 00022000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12						0	0	22	12	29	30
2	11						0	0	20	11	28	30
3	8.8						0	0	20	11	29	31
4	8.2						0	0	21	15	32	31
5	8.0						0	0	21	17	32	32
6	13						0	0	22	17	32	30
7	17						0	0	23	17	33	29
8	15						0	8.2	23	18	32	26
9	14						0	11	24	18	32	26
10	13						0	13	23	19	32	25
11	13						0	16	21	20	33	24
12	12						0	19	22	20	31	22
13	12						0	20	22	20	32	21
14	11						0	23	22	25	34	21
15	9.5						0	25	22	33	34	21
16	8.4						0	25	22	33	33	20
17	8.4						0	25	22	32	33	19
18	9.0						0	25	22	33	34	19
19	9.9						0	25	20	33	34	18
20	10						0	12	19	33	35	17
21	10						0	8.5	19	33	35	16
22	12						0	24	19	34	33	17
23	12						0	25	10	33	32	13
24	12						0	24	0	33	33	9.6
25	0						0	24	2.5	31	31	9.2
26	0					0	0	25	12	30	32	8.5
27	0					0	0	18	12	30	31	8.3
28	0					0	0	20	12	30	29	8.2
29	0					0	0	22	12	32	30	0
30	0				-----	0	0	22	12	33	31	0
31		-----			-----	0	-----	22	-----	31	30	-----
TOTAL	269.2					0	0	481.7	543.5	787	991	581.8
MEAN	8.97					0	0	15.5	18.1	25.4	32.0	19.4
MAX	17					0	0	25	24	34	35	32
MIN	0					0	0	0	0	11	28	0
AC-FT	534					0	0	955	1,080	1,560	1,970	1,150
CAL YEAR 2003	MAX	37	MIN	0	AC-FT	7,750						
WTR YEAR 2004	MAX	35	MIN	0	AC-FT	7,250						



**WINTERS CREEK near Scottsbluff, 06681000 - 2004**

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

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

PERIOD OF RECORD.--1931 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 132 cubic feet per second September 1, gage height 2.79 feet; minimum daily discharge 2.7 cubic feet per second June 6.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	45	39	34	29	28	27	31	21	18	17	42
2	51	46	38	34	29	27	27	41	15	16	16	50
3	50	47	38	34	29	26	27	41	4.5	13	16	46
4	46	46	36	34	29	27	27	40	3.4	14	17	46
5	47	45	36	33	32	26	29	39	3.2	16	17	64
6	46	44	36	33	33	26	29	37	2.1	12	19	45
7	47	43	36	34	36	22	29	37	3.0	9.3	20	29
8	47	44	37	33	34	22	29	41	3.4	3.3	18	37
9	45	43	36	33	30	29	30	34	3.8	2.8	19	44
10	46	43	36	32	28	30	30	27	16	6.1	27	42
11	46	43	37	32	28	29	32	22	27	7.5	29	38
12	46	44	36	31	29	30	33	21	28	5.3	28	37
13	47	44	36	32	30	33	33	25	12	5.9	27	38
14	46	43	36	31	31	33	33	30	4.2	7.1	27	43
15	46	43	37	32	29	31	34	28	4.2	6.6	26	43
16	43	43	37	30	29	34	32	21	6.0	7.1	25	43
17	44	42	37	30	35	34	30	18	9.3	5.2	24	46
18	47	42	37	31	30	32	30	23	13	5.5	23	42
19	45	41	37	31	33	29	29	22	15	5.2	24	44
20	45	40	37	31	41	26	29	22	18	5.9	26	49
21	46	40	36	31	42	26	30	17	20	7.1	24	53
22	46	40	36	31	39	26	31	13	22	10	21	55
23	47	40	36	31	29	27	29	14	21	19	21	56
24	47	40	36	32	32	27	30	12	17	23	21	57
25	47	39	36	31	32	26	29	12	20	23	21	53
26	42	39	35	30	31	26	29	10	18	19	24	61
27	43	39	35	30	27	27	29	8.3	19	17	25	60
28	45	38	35	29	28	27	29	8.5	20	18	24	53
29	45	38	34	29	28	27	29	9.4	20	15	21	54
30	44	39	34	31	-----	27	29	8.5	19	16	21	56
31	44	-----	34	28	-----	27	-----	16	-----	17	27	-----
TOTAL	1,430	1,263	1,122	978	912	867	893	728.7	408.1	355.9	695	1,426
MEAN	46.1	42.1	36.2	31.5	31.4	28.0	29.8	23.5	13.6	11.5	22.4	47.5
MAX	54	47	39	34	42	34	34	41	28	23	29	64
MIN	42	38	34	28	27	22	27	8.3	2.1	2.8	16	29
AC-FT	2,840	2,510	2,230	1,940	1,810	1,720	1,770	1,450	809	706	1,380	2,830
CAL YEAR 2003	TOTAL	11,520.00	MEAN	31.6	MAX	82	MIN	11	AC-FT	22,850		
WTR YEAR 2004	TOTAL	11,078.70	MEAN	30.3	MAX	64	MIN	2.1	AC-FT	21,970		

# NORTH PLATTE RIVER BASIN

## MINATARE CANAL from North Platte River, 00099000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	0					0	49	80	74	90	119
2	46	0					0	47	77	76	97	118
3	46	0					0	56	78	78	113	118
4	46	0					0	64	69	86	107	123
5	45						21	64	71	89	108	110
6	44						13	65	69	89	109	102
7	45						14	65	72	85	112	99
8	45						14	64	71	84	111	90
9	45						24	67	76	93	107	79
10	45						26	71	88	97	108	75
11	45						23	70	86	93	107	74
12	44						23	70	79	99	111	72
13	43						23	71	74	105	114	73
14	43						30	71	71	102	113	74
15	43						35	76	72	104	113	74
16	43						34	79	79	110	114	73
17	45						33	77	87	111	115	72
18	46						32	78	95	114	116	68
19	46						38	77	96	115	117	65
20	45						45	79	93	116	121	62
21	48						45	80	89	119	107	56
22	46						47	72	87	122	102	54
23	44						45	73	81	122	108	55
24	45						49	68	72	114	109	54
25	44						50	65	66	106	112	53
26	41						48	66	74	94	114	52
27	38						51	67	75	102	112	49
28	37						52	66	75	96	110	49
29	13						50	65	75	97	104	43
30	0				-----	0	49	68	75	98	99	41
31	0	-----			-----	0	-----	78	-----	94	108	-----
TOTAL	1,251	0				0	914	2,128	2,352	3,084	3,388	2,246
MEAN	40.4	0				0	30.5	68.6	78.4	99.5	109	74.9
MAX	48	0				0	52	80	96	122	121	123
MIN	0	0				0	0	47	66	74	90	41
AC-FT	2,480	0				0	1,810	4,220	4,670	6,120	6,720	4,450
CAL YEAR 2003	MAX	124	MIN	0	AC-FT	25,960						
WTR YEAR 2004	MAX	123	MIN	0	AC-FT	30,470						

## GERING CREEK near Gering, 06681500 - 2004

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 888 cubic feet per second July 22, gage height 6.27 feet; minimum daily discharge 13 cubic feet per second May 8, 9, 12.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	22	20	18	17	18	16	16	16	42	83	21
2	27	22	20	18	17	18	16	15	24	38	80	20
3	25	23	20	18	17	18	16	16	16	47	86	21
4	24	23	20	18	18	18	15	15	15	49	85	21
5	24	23	20	17	18	18	15	14	15	69	121	53
6	24	23	20	16	17	17	16	14	14	55	95	33
7	24	22	20	17	16	16	16	14	14	52	84	32
8	24	22	20	18	17	17	15	13	14	52	74	27
9	23	22	20	18	16	19	16	13	15	53	71	43
10	23	22	19	18	16	19	16	14	15	55	69	44E
11	23	22	19	18	15	17	16	14	15	53	68	45E
12	23	21	19	18	15	16	16	13	15	50	69	46E
13	23	21	19	17	15	17	16	14	16	52	69	47E
14	23	21	19	18	15	16	16	14	16	50	69	48E
15	22	21	19	17	15	17	16	14	15	52	66	47
16	22	20	18	17	15	17	16	14	15	56	64	50
17	22	20	19	17	15	17	16	14	18	55	62	49
18	22	20	18	18	16	17	16	15	18	53	62	49
19	22	20	18	18	16	17	16	15	27	53	65	50
20	21	19	18	17	15	17	17	15	64	55	68	48
21	21	19	18	18	16	17	16	15	61	59	65	53
22	22	20	18	17	16	16	20	16	25	280	67	56
23	22	19	18	17	16	17	18	16	15	236	63	55
24	22	19	18	17	16	17	17	16	14	173	48	53
25	21	19	19	17	17	17	17	16	15	147	52	53
26	22	19	18	17	17	17	17	17	18	160	31	54
27	23	19	18	16	17	17	17	17	14	137	24	60
28	22	19	18	17	17	17	17	17	81	107	23	34
29	22	20	18	17	19	16	16	18	132	94	23	26
30	21	20	18	18	-----	16	16	17	86	140	22	23
31	21	-----	18	18	-----	17	-----	17	-----	90	22	-----
TOTAL	727	622	584	540	472	530	489	468	838	2,664	1,950	1,261
MEAN	23.5	20.7	18.8	17.4	16.3	17.1	16.3	15.1	27.9	85.9	62.9	42.0
MAX	47	23	20	18	19	19	20	18	132	280	121	60
MIN	21	19	18	16	15	16	15	13	14	38	22	20
AC-FT	1,440	1,230	1,160	1,070	936	1,050	970	928	1,660	5,280	3,870	2,500
CAL YEAR 2003 TOTAL		10,971.00	MEAN	30.1	MAX	149	MIN	15	AC-FT	21,760		
WTR YEAR 2004 TOTAL		11,145.00	MEAN	30.5	MAX	280	MIN	13	AC-FT	22,110		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

## CASTLE ROCK - STEAMBOAT CANAL from North Platte River, 00021000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55								59	74	70	83
2	54								53	70	72	79
3	54							1.2	51	68	73	77
4	53							4.3	40	68	76	82
5	52							20	43	70	79	76
6	29							49	37	68	73	65
7	1.2							56	29	71	81	64
8	0							62	28	75	84	63
9	0							63	34	75	79	64
10	0							55	44	83	78	65
11	0							69	52	79	81	66
12	0							74	58	69	76	60
13	0							72	54	69	76	53
14	0							72	50	79	78	55
15	0							71	46	79	78	57
16								70	37	98	81	58
17								58	45	90	82	57
18								56	60	87	79	57
19								59	68	83	79	57
20								58	63	83	78	57
21								61	49	81	80	58
22								49	52	87	80	60
23								54	59	69	77	60
24								53	56	69	74	59
25								52	59	68	72	59
26								48	61	87	63	59
27								45	60	78	69	59
28								45	63	77	75	50
29								46	67	77	74	39
30					-----			46	74	74	72	36
31		-----			-----		-----	51	-----	71	71	-----
TOTAL	298.2							1,519.5	1,551	2,376	2,360	1,834
MEAN	19.9							52.4	51.7	76.6	76.1	61.1
MAX	55							74	74	98	84	83
MIN	0							1.2	28	68	63	36
AC-FT	591							3,010	3,080	4,710	4,680	3,640
CAL YEAR 2003	MAX	92	MIN	0	AC-FT	20,330						
WTR YEAR 2004	MAX	98	MIN	0	AC-FT	19,710						

**NORTH PLATTE RIVER near Minatare, 06682000 - 2004**

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 635 cubic feet per second July 25, combined channel discharge; minimum daily discharge 24 cubic feet per second June 8 & 9, combined channel discharge.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	601	558	515	484E	461	414	355	217	38	196	302	169
2	579	569	521	492E	456	397	353	210	46	143	262	173
3	594	590	523	485E	452	394	354	206	55	123	223	194
4	569	585	523	490E	452	393	362	186	39	136	216	239
5	560	576	511	487E	454	396	356	168	31	137	227	394
6	567	552	519	478E	449	387	349	112E	28	117	262	391
7	581	546	525	471E	433	384	352	93E	26	96	234	373
8	582	548	541	463	430	388	348	78E	24	78	216	392
9	585	549	551	462	431	407	349	66E	24	69	219	420
10	576	552	526	471	424	417	342	61E	28	79	217	396
11	578	548	527	477	410	421	346	53E	29	76	215	384
12	569	534	526	469	411	427	347	50E	33	64	201	380
13	561	538	528	476	410	422	345	53	32	50	188	376
14	554	545	520	477	406	411	332	48E	27	36	175	386
15	546	542	522	489	404	418	323	43E	27	33	164	402
16	542	540	517	490	407	416	316	38E	28	68	149	398
17	533	541	513	499	406	414	311	37E	35	84	146	400
18	548	525	522	508	416	402	305	35E	51	83	147	400
19	540	489	525	517	412	402	299	36E	83	61	160	404
20	541	489	529	538	408	389	297	35E	112	61	304	408E
21	532	486	538	530E	405	385	300	35E	202	73	426	419E
22	532	492	542	521E	407	385	319	35E	226	254	388	446E
23	529	485	537	520E	409	378	314	32E	231	440	324	453
24	520	487	533	509E	407	380	295	30	234	547	284	439
25	516	495	523	507E	401	381	275	32	232	617	299	428
26	521	497	512	492E	407	371	255	33	229	589	311	432
27	533	489	505	488E	401	363	236	31	224	511	298	454
28	534	488	496	479E	397	359	225	32	260	435	278	493
29	546	502	498E	468E	414	356	218	32	318	383	252	487
30	549	510	513E	460E	-----	354	220	30	284	414	223	500
31	553	-----	522	461E	-----	357	-----	31	-----	337	197	-----
TOTAL	17,171	15,847	16,203	15,158	12,180	12,168	9,398	2,178	3,236	6,390	7,507	11,630
MEAN	554	528	523	489	420	393	313	70.3	108	206	242	388
MAX	601	590	551	538	461	427	362	217	318	617	426	500
MIN	516	485	496	460	397	354	218	30	24	33	146	169
AC-FT	34,060	31,430	32,140	30,070	24,160	24,140	18,640	4,320	6,420	12,670	14,890	23,070
CAL YEAR 2003 TOTAL		142,043	MEAN	389	MAX	800	MIN	87	AC-FT	281,700		
WTR YEAR 2004 TOTAL		129,066	MEAN	353	MAX	617	MIN	24	AC-FT	256,000		

E indicates estimated daily discharge.

## NORTH PLATTE RIVER BASIN

## NINE MILE CANAL from North Platte River, 00106000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	.08					0	24	13	13	.20	19
2	19	.03					0	21	14	13	.10	18
3	19	0					0	17	15	15	6.0	20
4	18	0					0	16	13	17	11	25
5	17	0					0	19	13	18	12	72
6	16						0	21	13	18	26	56
7	16						0	22	12	17	29	30
8	13						0	20	11	15	39	25
9	15						0	11	11	17	40	22
10	17						0	6.4	13	23	27	21
11	17						0	2.7	15	16	13	19
12	16						0	1.2	16	16	.96	17
13	15						0	1.9	16	14	7.2	16
14	15						0	1.5	14	8.0	5.2	17
15	15						0	6.8	13	6.9	4.5	17
16	16						0	15	11	10	7.7	18
17	16						0	15	12	13	26	19
18	16						0	15	16	9.1	45	19
19	21						9.7	15	17	7.0	17	13
20	29						19	15	27	5.1	25	9.5
21	13						24	15	42	3.0	44	9.5
22	.05						20	15	23	3.5	33	10
23	.05						25	14	18	5.2	26	10
24	4.3						26	14	19	5.2	25	10
25	12						25	15	16	5.2	20	9.5
26	13						26	14	18	4.1	16	9.4
27	14						25	14	18	26	17	8.7
28	19						25	13	17	41	17	9.5
29	13						26	13	17	5.9	16	9.6
30	.09				-----	0	24	13	16	4.2	15	13
31	.08	-----			-----	0	-----	13	-----	.06	19	-----
TOTAL	432.57	0.11				0	274.7	419.5	489	374.46	589.86	571.7
MEAN	14.0	.022				0	9.16	13.5	16.3	12.1	19.0	19.1
MAX	29	.08				0	26	24	42	41	45	72
MIN	.05	0				0	0	1.2	11	.06	.10	8.7
AC-FT	858	.2				0	545	832	970	743	1,170	1,130
CAL YEAR 2003	MAX	75	MIN	0	AC-FT	8,150						
WTR YEAR 2004	MAX	72	MIN	0	AC-FT	6,250						

**NINE MILE CANAL from Ninemile Creek, 00106100 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30						0	0	49	42	33	49
2	30						0	5.4	48	41	30	47
3	31						0	3.5	46	42	39	45
4	32						0	3.3	43	42	44	49
5	32						0	23	42	42	50	43
6	33						0	37	41	39	49	33
7	33						0	35	44	39	46	49
8	32						0	33	45	38	50	49
9	32						0	31	43	42	45	49
10	31						0	32	46	46	39	59
11	32						0	32	46	46	41	64
12	32						0	33	43	44	41	63
13	32						0	37	44	45	45	60
14	31						0	38	42	45	50	62
15	30						0	38	43	43	51	61
16	30						0	39	42	45	49	52
17	30						0	34	35	46	47	45
18	31						0	34	29	45	48	43
19	31						0	36	28	45	50	42
20	31						0	37	33	0	48	43
21	31						0	43	23	0	47	44
22	30						0	45	24	0	46	45
23	30						0	44	37	0	46	43
24	29						0	44	38	0	45	42
25	29						0	42	38	0	48	43
26	29						0	44	41	0	48	45
27	29						0	46	42	0	48	43
28	28						0	44	42	0	48	43
29	28					0	0	44	42	24	49	42
30	0				-----	0	0	45	42	32	51	43
31		-----			-----	0	-----	47	-----	36	50	-----
TOTAL	889					0	0	1,049.2	1,201	909	1,421	1,440
MEAN	29.6					0	0	33.8	40.0	29.3	45.8	48.0
MAX	33					0	0	47	49	46	51	64
MIN	0					0	0	0	23	0	30	33
AC-FT	1,760					0	0	2,080	2,380	1,800	2,820	2,860
CAL YEAR 2003	MAX	45	MIN	0	AC-FT	10,320						
WTR YEAR 2004	MAX	64	MIN	0	AC-FT	13,700						

# NORTH PLATTE RIVER BASIN

## NINE MILE CREEK near McGrew, 06682500 - 2004

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 8 cubic feet per second June 9, 2004.

EXTREMES FOR CURRENT YEAR.--Peak discharge 183 cubic feet per second July 26, gage height 3.14 feet; minimum daily discharge 8 cubic feet per second June 9.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	62	48	53	42	48	35	70	11	27	67	47
2	61	61	48	53	41	37	30	70	12	23	71	53
3	59	61	48	52	40	33	30	69	14	22	60	52
4	59	60	46	51	41	32	33	57	12	20	51	51
5	60	59	45	47	39	31	36	29	10	21	58	100
6	57	59	47	46E	38	30	36	20	9.2	31	72	84
7	52	53	46	46E	36	30	36	20	9.1	35	73	70
8	48	51	47	43	37	35	36	18	8.5	31	70	72
9	46	56	45	42	38E	43	38	15	8.0	24	75	72
10	46	56	44	41	39E	44	37	16	9.5	23	74	70
11	48	55	45	41	39E	43	38	16	13	19	76	68
12	51	51	44	37	38E	43	38	15	11	25	69	66
13	48	51	47	33	39E	44	31	16	11	23	65	62
14	51	52	51	34	38E	43	32	16	9.8	29	67	62
15	51	51	51	35	37E	44	31	17	11	27	70	69
16	56	51	50	37	36E	42	31	22	12	28	70	77
17	53	51	50	38	35E	42	29	15	21	28	65	74
18	54	50	49	38	34E	42	30	15	39	34	70	73
19	53	51	51	39	33	43	41	18	43	27	80	72
20	52	51	53	40	32	41	49	18	50	43	81	69
21	52	50	52	41	32	40	55	21	58	77	79	68
22	51	51	53	43	34	39	77	21	53	78	73	72
23	51	49	53	45	33	37	70	17	34	104	67	71
24	53	51	52	46	36	37	63	16	29	121	61	69
25	53	49	53	47	35	36	68	18	26	122	57	67
26	47	49	53	44	36	35	67	20	31	120	53	64
27	47	47	53	45	37	36	67	17	35	131	53	61
28	48	47	52	44	37	35	67	14	34	115	53	61
29	41	49	52	44	40	36	69	13	36	82	51	63
30	46	49	53	42	-----	36	73	13	32	77	48	66
31	61	-----	52	42	-----	35	-----	12	-----	70	50	-----
TOTAL	1,614	1,583	1,533	1,329	1,072	1,192	1,373	734	692.1	1,637	2,029	2,025
MEAN	52.1	52.8	49.5	42.9	37.0	38.5	45.8	23.7	23.1	52.8	65.5	67.5
MAX	61	62	53	53	42	48	77	70	58	131	81	100
MIN	41	47	44	33	32	30	29	12	8.0	19	48	47
AC-FT	3,200	3,140	3,040	2,640	2,130	2,360	2,720	1,460	1,370	3,250	4,020	4,020
CAL YEAR 2003 TOTAL		19,711.0	MEAN	54.0	MAX	192	MIN	12	AC-FT	39,100		
WTR YEAR 2004 TOTAL		16,813.1	MEAN	45.9	MAX	131	MIN	8.0	AC-FT	33,350		

E indicates estimated discharge.



## SHORT LINE CANAL from North Platte River, 00133000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	0					0	35	9.9	13	32	41
2	38	0					0	39	9.8	14	35	43
3	38	0					0	40	11	14	35	42
4	34	0					0	34	9.1	15	41	41
5	27	0					0	24	8.0	18	45	40
6	29	0					0	18	7.3	24	40	36
7	36						0	17	7.3	33	36	37
8	34						0	16	7.0	33	38	37
9	33						0	14	6.8	29	42	34
10	33						0	15	10	27	43	33
11	34						0	15	14	24	45	34
12	35						0	14	12	27	43	34
13	34						0	15	11	25	42	31
14	36						0	16	8.7	29	44	32
15	36						0	16	9.7	27	43	32
16	39						0	21	12	29	42	29
17	38						15	15	13	30	38	28
18	36						25	14	14	34	40	27
19	35						28	17	14	32	44	27
20	31						29	19	15	16	40	27
21	31						31	20	14	0	38	29
22	30						39	21	11	0	38	31
23	29						39	18	11	0	39	29
24	30					0	36	18	13	0	38	27
25	26					0	36	16	12	0	40	25
26	17					0	34	15	13	22	38	21
27	16					0	34	15	13	41	39	17
28	17					0	33	13	12	36	41	17
29	15					0	32	13	12	33	37	19
30	14				-----	0	34	13	12	36	38	22
31	6.6	-----			-----	0	-----	12	-----	33	42	-----
TOTAL	924.6	0				0	445	588	332.6	694	1,236	922
MEAN	29.8	0				0	14.8	19.0	11.1	22.4	39.9	30.7
MAX	39	0				0	39	40	15	41	45	43
MIN	6.6	0				0	0	12	6.8	0	32	17
AC-FT	1,830	0				0	883	1,170	660	1,380	2,450	1,830
CAL YEAR 2003	MAX	47	MIN	0	AC-FT	8,940						
WTR YEAR 2004	MAX	45	MIN	0	AC-FT	10,200						

## NORTH PLATTE RIVER BASIN

## CHIMNEY ROCK CANAL from North Platte River, 00024000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	0					0	46	50	29	64	51
2	37	0					0	46	54	40	66	53
3	38	0					0	46	59	49	64	59
4	37	0					0	40	57	37	65	61
5	31	0					0	34	51	42	68	62
6	33	0					0	30	49	44	68E	50
7	38						0	38	48	51	68E	54
8	36						0	48	46	60	68E	54
9	35						0	47	48	59	68E	56
10	32						0	49	52	59	68	55
11	28						0	50	44	59	67	52
12	35						0	52	47	56	65	48
13	37						0	51	50	55	63	46
14	35						0	50	50	60	60	43
15	26						0	46	48	60	60	43
16	35						0	34	46	63	59	40
17	38						0	35	43	64	57	39
18	38						0	40	45	58	59	38
19	37						11	44	47	58	64	40
20	36						21	46	46	58	72	38
21	34						18	52	46	65	68	36
22	29						23	48	45	66	65	37
23	34						27	50	48	66	63	36
24	34						25	56	54	57	62	37
25	33						24	57	63	45	65	38
26	32						24	57	64	57	68	39
27	31						30	58	61	55	66	39
28	31						38	56	62	53	64	40
29	20						46	53	64	58	64	40
30	13				-----		46	50	54	62	63	40
31	9.8	-----			-----		-----	50	-----	59	57	-----
TOTAL	996.8	0					333	1,459	1,541	1,704	1,998	1,364
MEAN	32.2	0					11.1	47.1	51.4	55.0	64.5	45.5
MAX	38	0					46	58	64	66	72	62
MIN	9.8	0					0	30	43	29	57	36
AC-FT	1,980	0					661	2,890	3,060	3,380	3,960	2,710
CAL YEAR 2003	MAX	68	MIN	0	AC-FT	15,340						
WTR YEAR 2004	MAX	72	MIN	0	AC-FT	18,640						

E indicates estimated discharge.

**ALLIANCE CANAL from Bayard Creek, 00002000 - 2004**

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

GAGE.--Continuous stage recorder and metal flume

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	14					8.8	17	8.1	9.8	14	19
2	18	13					8.6	18	7.4	9.6	14	19
3	18	13					8.6	20	9.6	9.8	14	16
4	18	13					8.6	19	8.3	10	14	16
5	17	12					8.6	19	7.3	10	13	21
6	17	12					8.4	20	7.0	10	12	19
7	17	11					8.6	19	7.0	10	13	19
8	17	11					8.5	18	6.9	11	9.0	20
9	17	10					9.1	17	8.3	11	9.6	21
10	17	10					9.3	17	9.0	13	13	20
11	17	10					9.3	18	8.5	12	16	21
12	18	9.3					9.5	17	8.8	11	17	21
13	18	9.0					9.3	14	7.9	11	17	21
14	18	9.1					8.9	12	6.5	10	18	21
15	18	9.0					8.9	12	5.3	10	19	23
16	18	8.8					8.6	14	3.7	11	17	22
17	18	8.8					11	15	6.3	12	16	21
18	17	8.8					16	16	9.0	11	17	20
19	17						15	16	9.6	10	18	19
20	17						12	15	10	10	18	19
21	17						12	15	12	8.0	17	19
22	16						19	15	9.6	8.2	18	20
23	17						22	15	9.9	10	17	20
24	17					0	20	14	9.5	11	15	19
25	17					0	19	13	9.0	10	16	19
26	17					0	18	11	11	10	17	18
27	17					0	17	9.3	11	11	17	17
28	18					0	17	9.6	11	11	20	16
29	17					0	16	10	10	12	21	17
30	19				-----	0	17	9.5	9.3	13	22	17
31	17	-----			-----	5.0	-----	8.8	-----	14	20	-----
TOTAL	539	191.8				5.0	372.6	463.2	256.8	330.4	498.6	580
MEAN	17.4	10.7				.63	12.4	14.9	8.56	10.7	16.1	19.3
MAX	19	14				5.0	22	20	12	14	22	23
MIN	16	8.8				0	8.4	8.8	3.7	8.0	9.0	16
AC-FT	1,070	380				9.9	739	919	509	655	989	1,150
CAL YEAR 2003	MAX	27	MIN	0	AC-FT	6,550						
WTR YEAR 2004	MAX	23	MIN	0	AC-FT	6,420						

# NORTH PLATTE RIVER BASIN

## ALLIANCE CANAL from Red Willow Creek, 00003000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	3.7					0	12	8.9	10	33	21
2	16	3.8					0	12	8.9	15	28	21
3	16	3.7					0	12	9.1	17	26	21
4	15	3.8					0	12	9.2	15	26	21
5	16	3.7					0	12	9.3	13	28	24
6	15	3.7E					0	11	9.4	12	33	21
7	15	3.7					0	11	9.7	9.0	34	21
8	16	3.9					.61	11	7.8	13	35	21
9	15	4.1					7.3	12	8.1	9.8	34	20
10	14	4.1					10	13	9.4	14	31	21
11	15	4.0					11	13	7.6	12	30	21
12	16	4.0					12	13	4.5	16	26	21
13	16	4.1					10	14	5.7	14	27	21
14	16	4.1					8.6	12	7.6	14	30	22
15	17	4.1					7.9	11	7.2	13	30	22
16	17	4.2					7.7	11	7.4	11	32	22
17	17	4.2					7.4	11	8.6	13	29	22
18	17	4.5					7.3	11	10	11	27	21
19	17	2.1					8.0	11	11	11	30	20
20	17						11	11	12	11	33	17
21	17						10	11	12	12	27	16
22	17						11	11	12	17	24	17
23	16					0	12	11	12	28	23	18
24	16					0	12	11	12	32	23	18
25	17					0	12	11	12	31	21	17
26	17					0	11	11	11	30	21	18
27	14					0	12	10	10	32	21	18
28	15					0	12	9.7	11	37	21	18
29	13					0	12	9.1	10	36	21	18
30	3.6				-----	0	12	9.2	9.6	36	21	18
31	3.6	-----			-----	0	-----	9.2	-----	36	21	-----
TOTAL	468.2	73.5				0	224.81	349.2	283.0	580.8	846	597
MEAN	15.1	3.87				0	7.49	11.3	9.43	18.7	27.3	19.9
MAX	17	4.5				0	12	14	12	37	35	24
MIN	3.6	2.1				0	0	9.1	4.5	9.0	21	16
AC-FT	929	146				0	446	693	561	1,150	1,680	1,180
CAL YEAR 2003	MAX	25	MIN	0	AC-FT	5,020						
WTR YEAR 2004	MAX	37	MIN	0	AC-FT	6,790						

E indicates estimated discharge.

**BAYARD CREEK near Bayard, 06683000 - 2004**

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 96 cubic feet per second November 21, gage height 1.74 feet; minimum daily discharge 0.07 cubic feet per second April 21, May 15.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	7.9	13	13	11	10 E	.50E	.46	4.7	7.4	15	8.2
2	26	5.8	13	14	11	9.3	.50E	1.7	4.4	7.6	14	8.7
3	26	6.1	12	13	11	8.9	.60E	3.3	2.3	7.8	12	5.7
4	26	5.8	12	14	11	9.4	.62	2.0	3.4	8.5	12	5.5
5	24	5.7	12	13E	11	11	.62	1.9	4.1	9.4	15	15
6	24	5.3	12	12E	11	11	.68	3.3	4.2	9.4	26	9.2
7	24	4.9	12	11	11 E	13	.73	2.8	4.2	9.5	32	9.4
8	25	4.4	12	11	11	14	.76	1.9	3.5	12	29	12
9	25	4.1	12	11	10	13	.78	1.2	3.6	13	29	14
10	24	4.1	12	12	9.8	12	.70	1.8	3.8	17	25	13
11	23	3.9	12	12	9.7	11	.63	3.1	3.6	17	24	13
12	23	3.6	12	11	9.5E	11	.64	1.6	3.9	16	23	13
13	23	3.4	12	11	9.4	11	.69	.35	3.4	16	22	13
14	24	3.4	12	11	9.2	11	.69	.12	3.6	16	25	16
15	23	3.4	12	11	9.5	11	.70	.07	3.6	15	25	20
16	23	3.4	12	11	9.6	11	.68	.23	3.3	16	23	16
17	23	3.4	12	11	9.8	11	2.0	.65	3.7	19	22	13
18	23	3.3	12	11	9.9	11	2.3	.77	5.3	18	23	10
19	23	3.4	12	10	10	11	.63	.72	5.2	16	25	9.4
20	22	3.4	12	11	10	11	.15	.72	6.0	16	26	11
21	21	9.6	12	11	9.9	11	.07	1.0	7.2	11	24	10
22	20	13	12	11	10	11	3.2	1.4	4.7	11	25	13
23	21	13	12	11	10	11	7.9	1.7	5.6	16	23	12
24	21	13	13	11	11	11	3.6	1.4	5.7	16	19	10
25	21	13	13	11	11	12	2.5	3.5	6.1	15	19	9.4
26	19	13	13	10	11	18	.70	6.0	8.2	15	21	8.2
27	20	12	13	11	12	21	.46	6.1	7.5	16	21	6.7
28	23	12	13	11E	12	22	.44	5.3	7.0	13	24	6.2
29	17	13	13	11	12 E	22	.22	5.0	6.6	17	20	7.6
30	16	13	13	11	-----	24	.34	4.8	6.2	19	16	9.8
31	13	-----	13	12	-----	10 E	-----	4.9	-----	18	11	-----
TOTAL	692	213.3	382	355	303.3	394.6	35.03	69.79	144.6	433.6	670	328.0
MEAN	22.3	7.11	12.3	11.5	10.5	12.7	1.17	2.25	4.82	14.0	21.6	10.9
MAX	26	13	13	14	12	24	7.9	6.1	8.2	19	32	20
MIN	13	3.3	12	10	9.2	8.9	.07	.07	2.3	7.4	11	5.5
AC-FT	1,370	423	758	704	602	783	69	138	287	860	1,330	651
CAL YEAR 2003 TOTAL		4,274.70	MEAN	11.7	MAX	47	MIN	1.9	AC-FT	8,480		
WTR YEAR 2004 TOTAL		4,021.22	MEAN	11.0	MAX	32	MIN	.07	AC-FT	7,980		

E indicated estimated discharge.

# NORTH PLATTE RIVER BASIN

## RED WILLOW CREEK near Bayard, 06684000 - 2004

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 154 cubic feet per second July 7, gage height 2.36 feet; minimum daily discharge 12 cubic feet per second June 15 & 16.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	42	46	39	39	37	34	30	17	18	79	36
2	44	43	46	38	41	36	26	21	16	19	51	35
3	42	48	47	37	42	36	27	21	17	17	44	34
4	46	47	45	36	40	37	31	20	18	15	45	34
5	43	43	45	32	38	38	33	19	18	15	56	54
6	44	43	47	30	38	37	33	18	16	17	93	42
7	45	41	48	35	39	40	32	16	15	33	69	40
8	46	43	47	36	39	42	30	16	16	36	71	40
9	48	43	46	35	38	49	23	16	16	47	75	38
10	47	43	48	36	38	39	18	15	17	39	62	39
11	38	44	45	37	37	37	18	17	15	64	61	38
12	43	44	43	35	37	37	19	14	15	46	62	37
13	36	39	44	36	39	33	20	25	14	30	63	36
14	33	38	44	36	40	31	21	25	13	30	65	37
15	34	38	45	35	36	29	17	22	12	28	64	39
16	33	37	45	36	35	27	15	19	12	29	63	37
17	35	37	45	35	36	27	15	23	15	30	54	36
18	33	37	44	35	39	26	15	22	18	34	48	35
19	32	39	44	36	34	26	15	21	18	32	50	38
20	32	40	43	36	33	24	21	19	19	27	54	42
21	30	39	43	37	33	23	20	19	18	22	38	41
22	35	41	42	38	35	25	20	15	18	26	37	45
23	38	40	41	40	34	25	23	16	18	38	35	44
24	35	41	41	37	34	26	32	19	18	76	33	38
25	33	42	40	36	36	27	29	20	18	106	34	36
26	37	43	39	36	37	28	27	22	19	124	39	38
27	40	42	39	38	37	26	28	22	20	84	45	36
28	35	43	37	38	36	24	33	21	20	74	46	34
29	39	46	39	42	38	24	29	18	18	69	44	34
30	46	46	38	41	-----	26	32	19	17	115	41	35
31	43	-----	37	39	-----	28	-----	20	-----	93	39	-----
TOTAL	1,216	1,252	1,343	1,133	1,078	970	736	613	501	1,433	1,660	1,148
MEAN	39.2	41.7	43.3	36.5	37.2	31.3	24.5	19.8	16.7	46.2	53.5	38.3
MAX	51	48	48	42	42	49	34	30	20	124	93	54
MIN	30	37	37	30	33	23	15	14	12	15	33	34
AC-FT	2,410	2,480	2,660	2,250	2,140	1,920	1,460	1,220	994	2,840	3,290	2,280
CAL YEAR 2003	TOTAL	15,746	MEAN	43.1	MAX	126	MIN	20	AC-FT	31,230		
WTR YEAR 2004	TOTAL	13,083	MEAN	35.7	MAX	124	MIN	12	AC-FT	25,950		

**BELMONT CANAL from North Platte River, 00009000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	0					0	52	41	89	94	82
2	79	0					0	45	44	79	99	90
3	76	0					0	37	48	76	100	92
4	73	0					0	29	57	95	98	94
5	74	0					0	50	50	95	97	93
6	70	0					0	54	43	92	101	92
7	67						0	56	44	86	100	94
8	66						0	58	43	83	98	90
9	66						0	45	43	95	102	87
10	64						0	48	49	90	102	82
11	65						0	70	58	91	101	70
12	65						0	71	56	92	100	66
13	65						0	71	65	89	99	65
14	63						.59	69	56	86	99	66
15	62						8.0	66	52	81	98	67
16	62						26	61	44	81	97	70
17	62						40	55	43	95	93	72
18	61						32	48	57	99	91	72
19	59						29	46	80	87	97	71
20	53						32	44	100	71	106	75
21	48						38	40	98	88	101	77
22	47						56	43	95	85	93	61
23	47						64	41	92	87	92	44
24	39					0	52	42	90	93	90	44
25	26					0	33	39	90	99	87	44
26	26					0	39	28	93	101	92	44
27	27					0	52	29	93	99	93	43
28	28					0	53	39	94	97	93	43
29	28					0	47	38	96	96	92	44
30	17				-----	0	50	40	93	84	91	44
31	0	-----			-----	0	-----	39	-----	94	86	-----
TOTAL	1,665	0				0	651.59	1,493	2,007	2,775	2,982	2,078
MEAN	53.7	0				0	21.7	48.2	66.9	89.5	96.2	69.3
MAX	80	0				0	64	71	100	101	106	94
MIN	0	0				0	0	28	41	71	86	43
AC-FT	3,300	0				0	1,290	2,960	3,980	5,500	5,910	4,120
CAL YEAR 2003	MAX	117	MIN	0	AC-FT	29,580						
WTR YEAR 2004	MAX	106	MIN	0	AC-FT	27,080						

## NORTH PLATTE RIVER BASIN

## BELMONT CANAL from Cedar Creek, 00010000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.91	2.7 E						0	2.6	1.9	2.1	2.9
2	.86	2.7 E						0	2.4	1.8	1.5	3.3
3	.79	2.6 E						0	2.3	2.4	1.9	2.8
4	.83	2.6 E						1.9	3.1	2.4	1.7	2.8
5	.95	2.5 E						2.4	3.1	2.4	1.1	3.2
6	.95	2.5					0	2.0	3.4	2.7	1.6	3.9
7	.96	2.4					0	1.9	3.3	1.9	2.0	3.9
8	.98	2.4					0	1.9	2.2	1.8	2.2	3.9
9	.99	2.4					0	1.9	2.5	2.6	2.2	3.4
10	1.0	2.3					0	1.8	5.4	2.6	2.4	3.0
11	1.0	2.3					0	1.3	4.3	2.5	1.8	2.7
12	1.0	2.3					0	.99	4.0	2.2	2.3	3.0
13	1.1	2.3					0	1.6	3.8	1.2	1.7	3.1
14	1.1	2.2					0	1.7	3.8	1.6	1.8	1.1
15	1.1	2.1					0	1.5	3.2	1.1	1.8	.12
16	1.1	2.1					0	1.6	2.8	1.5	1.8	0
17	.91	2.1					0	1.5	3.1	2.4	2.4	0
18	.92	2.1					0	1.4	3.7	2.9	2.8	0
19	1.1	.86					0	1.4	4.0	2.6	2.6	0
20	1.1						0	1.5	4.3	2.6	2.3	0
21	1.7						0	2.4	4.1	2.1	2.7	0
22	2.1						0	3.9	2.8	1.9	2.0	0
23	2.2						0	3.9	2.4	2.3	2.1	0
24	2.3						0	3.2	2.4	2.6	1.6	0
25	2.4						0	2.7	2.3	2.5	2.5	0
26	2.3						0	2.4	1.8	1.6	3.1	0
27	2.4						0	2.4	1.3	1.2	3.3	0
28	2.5						0	2.5	1.4	.94	2.9	0
29	2.6						0	2.5	2.2	.53	2.6	0
30	2.6				-----		0	2.6	2.2	1.1	2.5	
31	2.8	-----			-----		-----	2.6	-----	1.9	2.1	-----
TOTAL	45.55	43.46					0	59.39	90.2	61.77	67.4	43.12
MEAN	1.47	2.29					0	1.92	3.01	1.99	2.17	1.49
MAX	2.8	2.7					0	3.9	5.4	2.9	3.3	3.9
MIN	.79	.86					0	0	1.3	.53	1.1	0
AC-FT	90	86					0	118	179	123	134	86
CAL YEAR 2003 MAX		5.0	MIN	0	AC-FT	1,020						
WTR YEAR 2004 MAX		5.4	MIN	0	AC-FT	815						

E indicates estimated discharge.



**EMPIRE CANAL from North Platte River, 00039000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	0						0	9.3	22	24	9.0
2	3.6	0						0	7.8	24	24	9.1
3	3.5	0						0	7.9	23	24	9.1
4	3.2	0						3.6	8.4	25	24	21
5	3.2	0						17	8.2	25	24	24
6	3.1	0						22	7.6	25	24	18
7	2.9						0	23	7.2	24	24	15
8	3.0						0	24	9.9	24	24	11
9	3.4						0	22	11	16	14	9.9
10	4.5						0	23	12	12	13	11
11	4.5						0	29	12	8.0	14	14
12	4.4						0	26	12	4.7	14	16
13	4.5						0	23	12	4.4	14	16
14	17						0	23	12	4.3	15	16
15	25						0	23	11	3.9	15	16
16	26						0	22	11	3.8	15	15
17	26						0	24	10	3.7	14	15
18	27						0	25	15	3.7	14	14
19	27						0	24	19	16	7.5	14
20	26						0	23	20	21	1.3	8.9
21	25						0	22	20	27	.87	5.0
22	25						0	23	26	29	.80	3.9
23	25						0	23	28	28	.80	3.1
24	21						0	23	27	27	.72	2.8
25	16						0	16	28	27	5.8	2.8
26	16						0	5.5	28	21	9.5	2.7
27	16						0	7.9	28	17	9.5	2.7
28	17						0	15	26	18	9.5	2.7
29	17						0	14	21	22	9.5	2.7
30	11				-----		0	14	21	24	9.5	2.7
31	0	-----			-----		-----	13	-----	24	9.3	-----
TOTAL	410.4	0					0	553.0	476.3	557.5	408.59	313.1
MEAN	13.2	0					0	17.8	15.9	18.0	13.2	10.4
MAX	27	0					0	29	28	29	24	24
MIN	0	0					0	0	7.2	3.7	.72	2.7
AC-FT	814	0					0	1,100	945	1,110	810	621
CAL YEAR 2003	MAX	32	MIN	0	AC-FT	5,370						
WTR YEAR 2004	MAX	29	MIN	0	AC-FT	5,390						

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at Bridgeport, 06684500 - 2004

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 895 cubic feet per second November 3, combined flow for both channels; minimum daily discharge 58 cubic feet per second June 12, combined flow for both channels.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	690	832E	702E	670	601	677	512	256	75	319	427	268
2	626	842E	704E	644	595	636	502	256	69	273	381	226
3	630	877E	692E	613	599	637	500	263	65	235	321	225
4	635	867E	659	621	607	622	513	255	61	210	265	224
5	644	843E	633	540	586	623	519	212	67	199	266	289
6	652	818E	669	520E	523	636	507	208	66	188	329	429
7	671	804E	701	540E	493	636	508	167	66	187	338	423
8	685	804E	731	580E	516	667	528	144	64	171	324	430
9	693	808E	745	600E	510	691	549	169	66	163	319	434
10	687	820E	708	620E	517	706	540	158	72	187	314	439
11	660	827E	734	640E	523	663	539	94	59	217	301	432
12	662	818E	712	660E	474	648	540	67	58	173	287	437
13	645	802E	675	636	545	649	533	70	60	172	286	430
14	613	778E	709	643	574	660	551	71	59	154	282	469
15	604	730E	696	644	567	612	532	70	61	133	277	490
16	580	703E	676	645	565	558	504	67	60	123	280	507
17	595	712E	670	643	572	531	476	68	62	126	264	519
18	618	700E	689	622	598	506	460	72	73	131	258	513
19	630	686E	702	603	605	514	429	68	69	120	259	495
20	648	699E	703	607	569	538	400	65	92	110	286	516
21	666	719E	728	611	543	529	338	67	112	105	408	526
22	651	755E	749	621	527	540	356	68	168	121	514	555
23	654	741E	733	588	504	551	360	65	185	278	481	604
24	621	756E	708	563	517	567	355	63	189	476	419	606
25	580	747E	691	578	513	571	341	66	186	650	355	586
26	560	714E	697	572	524	577	316	103	200	708	360	596
27	589	696E	714	567	552	543	298	109	200	675	371	597
28	619	684E	697	567	595	502	302	93	199	600	354	627
29	668	700E	671	603	660	492	279	86	247	526	337	624
30	682	704E	710	585	-----	494	263	80	336	528	315	615
31	761E	-----	683	591	-----	497	-----	79	-----	483	296	-----
TOTAL	19,919	22,986	21,691	18,737	16,074	18,273	13,350	3,679	3,346	8,741	10,274	14,131
MEAN	643	766	700	604	554	589	445	119	112	282	331	471
MAX	761	877	749	670	660	706	551	263	336	708	514	627
MIN	560	684	633	520	474	492	263	63	58	105	258	224
AC-FT	39,510	45,590	43,020	37,160	31,880	36,240	26,480	7,300	6,640	17,340	20,380	28,030
CAL YEAR 2003 TOTAL		188,279	MEAN	516	MAX	877	MIN	92	AC-FT	373,500		
WTR YEAR 2004 TOTAL		171,201	MEAN	468	MAX	877	MIN	58	AC-FT	339,600		

E indicates estimated discharge.

**BROWNS CREEK CANAL from North Platte River, 00019000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14							0	43	74	43	66
2	39							0	43	74	50	62
3	43							0	47	70	57	72
4	43							0	48	83	76	82
5	44							0	53	86	82	71
6	45							12	50	86	83	64
7	45							34	48	88	72	60
8	44						0	40	47	79	72	59
9	43						0	47	46	52	72	57
10	44						0	54	53	50	71	55
11	44						0	55	45	57	70	50
12	43						0	49	43	50	72	47
13	43						0	53	43	54	77	46
14	43						0	53	42	62	77	44
15	43						0	51	43	75	77	37
16	43						0	48	47	78	77	34
17	43						0	51	46	84	74	34
18	42						0	55	56	87	74	34
19	41						0	51	51	84	73	33
20	41						0	49	52	78	74	33
21	42						0	50	37	70	81	32
22	25						0	52	50	74	82	34
23	0						0	49	52	75	81	36
24	0						0	47	47	71	79	37
25							0	45	45	72	76	36
26							0	52	46	70	73	36
27							0	44	49	68	67	35
28							0	40	54	66	64	35
29							0	42	62	66	62	12
30					-----		0	43	73	39	66	0
31		-----			-----		-----	44	-----	40	67	-----
TOTAL	897						0	1,210	1,461	2,162	2,221	1,333
MEAN	37.4						0	39.0	48.7	69.7	71.6	44.4
MAX	45						0	55	73	88	83	82
MIN	0						0	0	37	39	43	0
AC-FT	1,780						0	2,400	2,900	4,290	4,410	2,640
CAL YEAR 2003	MAX	93	MIN	0	AC-FT	18,720						
WTR YEAR 2004	MAX	55	MIN	0	AC-FT	18,410						

## NORTH PLATTE RIVER BASIN

## COURTHOUSE ROCK CANAL from Pumpkin Creek, 00030000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							1.9	0	1.1	1.2	3.2	0
2							3.4	1.4	1.1	1.2	3.2	0
3							2.8	3.2	.99	1.2	3.2	.11
4							2.1	1.9	1.0	1.2	1.5	.06
5							1.7	1.7	.70	1.2	0	.10
6							1.7	1.8	.82	1.2	0	.06
7							1.8	1.4	1.4	1.2	0	.06
8							2.0	0	1.2	.61	0	.06
9							1.9	0	1.1	.03	0	.02
10							1.2	0	1.0	0	0	0
11							1.1	0	1.0	0	0	0
12							.42	0	1.1	0	0	0
13							0	0	1.4	0	0	0
14							0	0	1.5	0	0	0
15							0	0	1.2	0	0	0
16							0	1.2	.76	0	0	0
17							0	3.3	.16	0	0	0
18							0	2.3	.49	0	0	0
19							0	2.2	.64	0	0	0
20							0	2.7	.66	1.5	0	0
21							0	3.0	.85	3.2	0	0
22							0	3.0	.89	3.2	0	0
23							0	2.8	.12	3.3	0	0
24							0	2.7	0	3.2	0	0
25							0	2.5	0	3.2	0	0
26							0	2.4	0	3.2	0	0
27							0	2.2	0	3.2	0	0
28							0	2.1	0	3.2	0	0
29							0	2.1	0	3.3	0	0
30					-----		0	1.6	.63	3.2	0	0
31		-----			-----		-----	1.2	-----	3.2	0	-----
TOTAL							22.02	48.7	21.81	45.94	11.1	0.47
MEAN							.73	1.57	.73	1.48	.36	.017
MAX							3.4	3.3	1.5	3.3	3.2	.11
MIN							0	0	0	0	0	0
AC-FT							44	97	43	91	22	.9
CAL YEAR 2003	MAX	1.4	MIN	0	AC-FT	30						
WTR YEAR 2004	MAX	3.4	MIN	0	AC-FT	298						

LAST CHANCE CANAL from Pumpkin Creek, 00080000 - 2004

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 2003 TO SEP 2004

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

NO WATER DIVERTED IN 2004.

CAL YEAR 2003	MAX	0	MIN	0	AC-FT	0						
WTR YEAR 2004	MAX	0	MIN	0	AC-FT	0						

## NORTH PLATTE RIVER BASIN

## TRINNIER CANAL from Greenwood Creek, 00144200 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18							4.5	.34	2.6	2.2	2.2
2	.12						.03	4.4	.34	2.5	2.2	2.2
3	.10						.30	4.2	.32	2.6	2.1	2.0
4	.14						.25	4.1	.51	2.8	2.2	2.2
5	.12						0	4.0	2.6	2.8	2.0	.88
6	.14						0	4.0	4.1	2.7	2.0	0
7	.68						0	4.0	2.4	2.7	1.9	0
8	1.7						1.2	3.9	1.3	2.1	1.9	0
9	1.6						3.7	3.9	1.1	1.4	2.1	0
10	1.2						3.6	3.9	.31	3.2	2.3	0
11	0						3.7	3.8	.26	3.0	2.2	.05
12	0						3.6	4.2	.23	2.6	2.3	0
13	0						3.2	4.4	.17	2.2	2.4	.51
14	0						3.1	3.9	.11	2.7	2.5	2.7
15	0						3.2	3.6	1.7	3.1	2.5	1.9
16	0						3.2	3.4	2.5	3.4	2.5	1.6
17	1.0						3.2	3.5	.24	3.2	2.6	1.4
18	2.1						3.4	3.5	.24	3.2	2.7	1.1
19	2.2						3.5	1.8	.19	3.2	3.0	.82
20	1.7						3.6	0	.10	3.3	2.7	.37
21	.21						4.0	0	.12	2.9	2.5	.53
22	.19						4.5	0	.11	2.5	2.5	.50
23	.10						4.2	0	.08	2.5	2.4	.42
24							4.1	0	.08	2.6	2.4	.34
25							4.0	0	.11	2.3	3.0	.30
26							4.0	.01	.10	2.1	2.9	.25
27							3.9	.01	.18	2.2	2.9	.27
28							3.9	0	.20	2.3	2.9	.25
29							4.6	.09	.10	2.2	2.7	.17
30					-----		4.6	.25	1.5	2.3	2.6	.20
31		-----			-----		-----	.33	-----	2.2	2.4	-----
TOTAL	13.48						84.58	73.69	21.64	81.4	75.5	23.16
MEAN	.59						2.92	2.38	.72	2.63	2.44	.77
MAX	2.2						4.6	4.5	4.1	3.4	3.0	2.7
MIN	0						0	0	.08	1.4	1.9	0
AC-FT	27						168	146	43	161	150	46
CAL YEAR 2003	MAX	6.1	MIN	0	AC-FT	1,080						
WTR YEAR 2004	MAX	4.6	MIN	0	AC-FT	741						

## NELSON CANAL from Greenwood Creek, 00105500 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0							0	0	3.0	3.3	3.3
2	0							0	0	2.9	3.3	3.3
3	0						0	0	0	2.9	3.3	3.3
4	0						0	0	0	2.8	3.3	3.3
5	0						0	0	0	2.8	3.3	3.3
6	0						0	0	0	2.7	3.3	3.3
7	0						0	0	0	2.6	3.3	3.3
8	0						0	0	0	2.4	3.3	3.3
9	0						0	0	0	2.2	3.3	3.3
10	0						0	0	0	2.5	3.3	3.5
11	0						0	0	0	2.7	3.3	3.6
12	0						0	0	0	3.0	3.3	3.8
13	0						0	0	0	3.3	3.3	3.9
14	0						0	0	0	3.3	3.3	4.1
15	0						0	0	0	3.3	3.3	3.7 E
16	0						0	0	0	3.3	3.3	3.3 E
17	0						0	0	0	3.3	3.3	2.9 E
18	0						0	0	0	3.3	3.3	2.5 E
19	0						0	0	0	3.3	3.3	2.0 E
20	0						0	0	0	3.3	3.3	1.6 E
21	0						0	0	0	3.3	3.3	1.2 E
22	0						0	0	0	3.3	3.3	.80E
23							0	0	0	3.3	3.3	.40E
24							0	0	0	3.3	3.3	
25							0	0	0	3.3	3.3	0
26							0	0	0	3.3	3.3	0
27							0	0	0	3.3	3.3	0
28							0	0	1.2	3.3	3.3	0
29							0	0	3.1	3.3	3.3	0
30					-----		0	0	3.1	3.3	3.3	0
31		-----			-----		-----	0	-----	3.3	3.3	-----
TOTAL	0						0	0	7.4	95.2	102.3	67.00
MEAN	0						0	0	.25	3.07	3.30	2.31
MAX	0						0	0	3.1	3.3	3.3	4.1
MIN	0						0	0	0	2.2	3.3	0
AC-FT	0						0	0	15	189	203	133
CAL YEAR 2003	MAX	4.0	MIN	0	AC-FT	466						
WTR YEAR 2004	MAX	4.1	MIN	0	AC-FT	539						

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

## MEREDITH-AMMER CANAL from Pumpkin Creek, 00088000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-----												
NO WATER DIVERTED IN 2004.												
CAL YEAR 2003	MAX	0	MIN	0	AC-FT	0						
WTR YEAR 2004	MAX	0	MIN	0	AC-FT	0						



**PUMPKIN CREEK near Bridgeport, 06685000 - 2004**

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 fair.

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 26 cubic feet per second October 3, gage height 2.90 feet; no flow many days during the year.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	0	0	0	0	0	0	2.1	0	.13	0	.94
2	24	0	0	0	0	0	0	6.9	0	.29	0	0
3	23	0	0	0	0	0	0	4.9	0	.29	.01	0
4	21	0	0	0	0	0	0	.72	0	0	.02	0
5	17	0	0	0	0	0	0	0	0	0	.03	0
6	15	0	0	0	0	0	0	2.9	0	0	.02	0
7	14	0	0	0	0	0	0	.65	0	0	.01	0
8	14	0	0	0	0	0	0	3.1	0	0	0	0
9	13	0	0	0	0	0	0	0	0	0	0	0
10	12	0	0	0	0	0	0	0	0	0	0	0
11	2.4	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	11	0	0	0	0	0	0	0	0	0	0	.12
15	13	0	0	0	0	0	0	0	0	0	0	.09
16	11	0	0	0	0	0	0	0	0	0	0	0
17	.53	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	9.3	0	0	0	0	0	.14	0	0	.13	0	0
22	11	0	0	0	0	0	6.2	0	0	1.5	0	.07
23	12	0	0	0	0	0	10	0	0	1.2	0	.15
24	11	0	0	0	0	0	8.8	0	0	.19	0	0
25	5.1	0	0	0	0	0	5.7	0	0	.15	0	1.2
26	.31	0	0	0	0	0	.45	0	0	.19	0	.66
27	.19	0	0	0	0	0	2.5	0	0	0	.65	.16
28	.18	0	0	0	0	0	4.5	0	0	0	1.6	0
29	.11	0	0	0	0	0	4.3	0	0	0	1.6	0
30	.04	0	0	0	-----	0	4.3	0	.02	0	1.6	0
31	0	-----	0	0	-----	0	-----	0	-----	0	1.3	-----
TOTAL	263.16	0	0	0	0	0	46.89	21.27	0.02	4.07	6.84	3.39
MEAN	8.49	0	0	0	0	0	1.56	.69	.001	.13	.22	.11
MAX	24	0	0	0	0	0	10	6.9	.02	1.5	1.6	1.2
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	522	0	0	0	0	0	93	42	.04	8.1	14	6.7
CAL YEAR 2003	TOTAL	608.85	MEAN	1.67	MAX	28	MIN	0	AC-FT	1,210		
WTR YEAR 2004	TOTAL	345.64	MEAN	.94	MAX	24	MIN	0	AC-FT	686		

## NORTH PLATTE RIVER BASIN

## BEERLINE CANAL from North Platte River, 00007000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15						0	0	0	0	8.6	5.6
2	14						0	0	0	0	8.2	5.4
3	14						0	0	0	0	8.2	5.2
4	15						0	0	0	0	7.5	4.8
5	15						0	0	0	0	7.0	5.2
6	15						0	0	0	0	6.8	5.7
7	15						0	0	0	0	6.7	5.7
8	15						0	0	0	0	6.5	5.5
9	16						0	0	0	0	6.3	5.3
10	16						0	0	0	0	6.0	5.0
11	13						0	0	0	0	5.9	4.6
12	11						0	0	0	0	5.8	4.2
13	11						0	0	0	0	5.8	4.0
14	11						0	0	0	0	6.0	4.1
15	11						0	0	0	0	6.0	4.4
16	11						0	0	0	0	6.1	4.4
17	11						0	0	0	0	4.3	4.3
18	12						0	0	0	0	0	4.2
19	12						0	0	0	0	0	4.1
20	12						0	0	0	0	0	4.1
21	13						0	0	0	0	1.7	4.0
22	13						0	0	0	0	7.7	4.2
23	9.2						0	0	0	2.2	8.1	4.4
24	0						0	0	0	9.3	8.0	4.4
25	0						0	0	0	9.8	7.4	4.3
26	0						0	0	0	10	7.1	4.2
27	0						0	0	0	9.9	7.0	4.2
28							0	0	0	9.9	6.7	4.3
29							0	0	0	9.9	6.4	4.4
30					-----		0	0	0	9.7	6.2	4.4
31		-----			-----	0	-----	0	-----	9.6	5.8	-----
TOTAL	300.2					0	0	0	0	80.3	183.8	138.6
MEAN	11.1					0	0	0	0	2.59	5.93	4.62
MAX	16					0	0	0	0	10	8.6	5.7
MIN	0					0	0	0	0	0	0	4.0
AC-FT	595					0	0	0	0	159	365	275
CAL YEAR 2003	MAX	18	MIN	0	AC-FT	2,560						
WTR YEAR 2004	MAX	16	MIN	0	AC-FT	1,390						

## LISCO CANAL from North Platte River, 00082000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	17						0	26	37	31	31
2	0	19						0	27	29	34	28
3	0	24						0	25	27	34	30
4	0	23						0	21	26	34	27
5	0	11						0	24	28	35	37
6	0	7.0						0	18	32	20	42
7	14	4.6						0	27	30	38	36
8	22	10						0	29	31	33	34
9	23	12						0	40	31	33	36
10	22	6.3						0	32	24	35	35
11	23	3.5						0	21	19	32	34
12	24	4.7						0	29	19	30	32
13	21	8.2						0	30	23	29	32
14	23	11						0	29	23	30	32
15	23	11						0	26	28	32	30
16	25	10						0	27	28	30	31
17	25	0						17	43	25	28	31
18	24							21	39	27	29	30
19	24							30	23	29	30	29
20	27							41	26	27	31	30
21	31							49	36	0	31	29
22	26							48	16	0	30	31
23	28						0	44	33	0	30	32
24	19						0	42	35	0	31	31
25	16						0	42	34	0	36	28
26	20						0	32	34	14	33	24
27	16						0	44	34	26	32	25
28	16						0	42	35	33	31	30
29	14						0	30	34	37	31	31
30	21				-----		0	30	35	38	30	33
31	15	-----			-----		-----	27	-----	31	30	-----
TOTAL	542	182.3					0	539	888	722	973	941
MEAN	17.5	10.7					0	17.4	29.6	23.3	31.4	31.4
MAX	31	24					0	49	43	38	38	42
MIN	0	0					0	0	16	0	20	24
AC-FT	1,080	362					0	1,070	1,760	1,430	1,930	1,870
CAL YEAR 2003	MAX	47	MIN	0	AC-FT	7,610						
WTR YEAR 2004	MAX	49	MIN	0	AC-FT	9,500						

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at Lisco, 06686000 - 2004

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 909 cubic feet per second November 4, gage height 1.57 feet; maximum gage height 2.82 feet January 10 due to backwater from ice conditions; minimum daily discharge 30 cubic feet per second June 15 and 16.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	795	740	701	720	620E	700E	572	344	66	237	485	263
2	730	794	698	730	618	700E	554	339	64	241	420	234
3	689	826	710	716	616	711	531	343	61	192	367	195
4	674	840	699	700E	600E	686	539	342	57	159	329	166
5	680	840E	671	660E	500E	668	551	314	54	129	334	194
6	680	820E	672	600E	520E	670	552	273	51	115	389	261
7	658	800E	660E	500E	580E	659	565	233	41	108	338	393
8	635	778	660E	480E	600E	689	588	223	34	104	351	425
9	637	780	660E	500E	620E	704	696	206	45	138	321	445
10	649	787	657	600E	640E	709	652	192	103	172	296	455
11	626	772	657	700E	600E	692	625	179	75	166	310	497
12	628	760E	698	780E	583	687	606	154	47	198	270	502
13	644	740E	646	800E	630	689	588	163	38	147	247	473
14	650	720E	640E	800E	664	655	594	148	32	110	234	559
15	665	720E	660E	800E	646	650	599	145	30	83	230	632
16	668	700E	660E	800E	639	649	588	130	30	71	248	570
17	663	700E	720E	781	651	634	554	109	32	58	244	564
18	641	704	721	685	682	636	517	99	57	43	234	573
19	628	684	729	667	696	621	509	97	70	35	200	547
20	630	682	774	655	673	604	514	82	69	37	215	561
21	614	686	790	650	675	591	468	82	75	67	218	525
22	597	701	799	641	685	595	629	102	117	67	288	549
23	624	699	779	651	692	608	639	106	126	79	368	574
24	642	692	751	642	709	595	557	91	154	162	312	593
25	642	680E	745	628	718	593	524	82	177	365	289	558
26	653	680E	733	591	736	587	486	79	194	529	273	549
27	685	700E	722	580	720E	581	443	69	196	618	348	524
28	690	680E	680E	608	720E	569	397	78	199	606	343	515
29	683	700E	600E	616	700E	581	377	77	188	541	343	561
30	654	680E	680E	620E	-----	581	348	75	204	572	341	635
31	682	-----	700E	640E	-----	579	-----	71	-----	524	303	-----
TOTAL	20,436	22,085	21,672	20,541	18,733	19,873	16,362	5,027	2,686	6,673	9,488	14,092
MEAN	659	736	699	663	646	641	545	162	89.5	215	306	470
MAX	795	840	799	800	736	711	696	344	204	618	485	635
MIN	597	680	600	480	500	569	348	69	30	35	200	166
AC-FT	40,530	43,810	42,990	40,740	37,160	39,420	32,450	9,970	5,330	13,240	18,820	27,950
CAL YEAR 2003 TOTAL		189,071	MEAN	518	MAX	866	MIN	33	AC-FT	375,000		
WTR YEAR 2004 TOTAL		177,668	MEAN	485	MAX	840	MIN	30	AC-FT	352,400		

E indicates estimated discharge.

## MIDLAND-OVERLAND CANAL from North Platte River, 00098000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11						0	0	5.9	.69	17	4.0
2	12						0	0	1.5	.54	11	5.6
3	12						0	0	1.1	.49	8.7	4.8
4	11						0	0	.88	.49	7.2	4.1
5	16						0	0	.73	.64	5.0	5.4
6	16						0	0	.55	2.8	6.6	5.5
7	17						0	0	.29	2.8	5.4	6.7
8	17						0	0	0	1.3	4.6	9.1
9	19						0	0	0	.76	4.6	6.6
10	18						0	0	.79	.83	2.2	10
11	19						0	0	5.6	.66	.72	9.9
12	19						0	0	2.7	.59	.49	2.6
13	19						0	0	4.8	1.0	.25	.37
14	9.1						0	0	9.3	1.0	0	.35
15	0						0	0	13	1.0	0	.35
16	0						0	0	10	6.3	0	.33
17	0						0	0	14	5.8	0	.33
18	0						0	0	17	6.1	0	.33
19	0						0	0	14	.43	0	.33
20	0						0	0	11	.23	0	.29
21	0						0	5.8	11	.21	0	.12
22	0					0	0	17	8.9	.40	0	.19
23	0					0	0	20	3.8	.61	0	.18
24	0					0	0	20	3.5	.77	.23	.13
25	0					0	0	20	3.4	.82	.32	.04
26	0					0	0	18	3.2	5.8	.04	0
27	0					0	0	16	3.1	16	0	0
28						0	0	16	3.1	17	.53	0
29						0	0	16	2.0	17	.01	0
30					-----	0	0	16	.93	18	0	.01
31		-----			-----	0	-----	16	-----	18	0	-----
TOTAL	215.1					0	0	180.8	156.07	129.06	74.89	77.65
MEAN	7.97					0	0	5.83	5.20	4.16	2.42	2.59
MAX	19					0	0	20	17	18	17	10
MIN	0					0	0	0	0	.21	0	0
AC-FT	427					0	0	359	310	256	149	154
CAL YEAR 2003	MAX	19	MIN	0	AC-FT	481						
WTR YEAR 2004	MAX	20	MIN	0	AC-FT	1,650						

## NORTH PLATTE RIVER BASIN

## PAISLEY CANAL from Blue Creek, 00120000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15						0	0	11	4.5	0	6.3
2	14						0	0	11	5.7	0	9.8
3	14						0	0	10	6.8	0	11
4	14						0	0	9.6	8.1	8.6	11
5	14						0	0	8.2	7.9	12	14
6	15						0	0	8.4	6.3	13	16
7	15						0	0	7.6	7.0	12	13
8	15						0	3.3	9.5	8.2	12	8.8
9	15						0	6.8	12	9.4	12	9.5
10	15						0	9.0	13	4.8	12	9.6
11	15						0	11	11	.37	12	9.9
12	15						0	11	11	.36	9.9	9.8
13	15						0	11	11	.36	11	9.6
14	15						0	10	12	6.6	11	8.8
15	15						0	12	12	10	11	3.6
16	15						0	14	12	10	11	2.9
17	15						0	14	12	7.9	8.3	1.9
18	14						0	15	13	0	0	1.6
19	14						0	14	10	0	0	1.4
20	14						0	14	8.8	0	0	1.4
21	14						0	14	9.2	0	0	1.8
22	14					0	0	15	8.4	0	0	2.6
23	13					0	0	15	5.9	0	0	3.7
24	13					0	0	15	5.3	0	0	5.8
25	11					0	0	11	7.6	0	0	8.3
26	6.1					0	0	11	9.8	0	0	9.0
27	1.1					0	0	12	10	0	6.4	9.6
28						0	0	11	10	0	9.4	9.6
29						0	0	13	10	0	7.3	10
30					-----	0	0	16	8.8	0	6.7	11
31		-----			-----	0	-----	13	-----	0	6.4	-----
TOTAL	365.2					0	0	291.1	298.1	104.29	192.0	231.3
MEAN	13.5					0	0	9.39	9.94	3.36	6.19	7.71
MAX	15					0	0	16	13	10	13	16
MIN	1.1					0	0	0	5.3	0	0	1.4
AC-FT	724					0	0	577	591	207	381	459
CAL YEAR 2003	MAX	17	MIN	0	AC-FT	2,210						
WTR YEAR 2004	MAX	16	MIN	0	AC-FT	2,940						

**BLUE CREEK & HOOPER CANAL from Blue Creek, 00017200 - 2004**

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. Starting in 1996 Blue Creek Canal also started diverting water for the Hooper Canal. Hooper Canal has a separate measuring device. Deliveries to Hooper Canal shown separately in this report. Starting in 2003, the Blue Creek Canal also delivers water to lands formerly served by the Graf Canal. There is no longer a Graf Canal diversion.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23							14	15	40	16	49
2	21							11	15	41	20	49
3	20							11	12	39	35	49
4	20							12	9.2	41	46	48
5	20							16	9.6	40	45	36
6	20							18	6.3	38	32	28
7	20							20	5.4	40	20	28
8	20							21	7.0	44	21	33
9	20							33	12	46	37	29
10	20							38	23	29	46	27
11	16							31	21	33	52	27
12	12							14	16	35	51	24
13	12							16	15	8.7	50	22
14	12							32	18	.46	49	20
15	12						5.1	35	24	16	41	.55
16	12						9.5	31	22	42	36	.12
17	12						11	46	22	46	38	0
18	12						11	48	20	45	44	0
19	12						10	47	13	44	44	0
20	11						11	39	13	27	38	0
21	12						9.9	36	13	.33	33	0
22	12						4.0	39	13	.09	30	0
23	12						.43	33	11	0	38	7.3
24	12						.37	31	15	0	41	7.4
25	4.6						.32	27	23	0	26	6.7
26	0						8.4	24	23	27	21	10
27							6.8	21	24	42	20	24
28							14	18	24	47	20	24
29							14	17	29	50	19	24
30					-----		15	17	39	28	20	24
31		-----			-----		-----	16	-----	18	41	-----
TOTAL	379.6						130.82	812	512.5	907.58	1,070	597.07
MEAN	14.6						8.18	26.2	17.1	29.3	34.5	19.9
MAX	23						15	48	39	50	52	49
MIN	0						.32	11	5.4	0	16	0
AC-FT	753						259	1,610	1,020	1,800	2,120	1,180
CAL YEAR 2003	MAX	60	MIN	0	AC-FT	7,930						
WTR YEAR 2004	MAX	52	MIN	0	AC-FT	8,750						

# NORTH PLATTE RIVER BASIN

## HOOPER CANAL from Blue Creek via Blue Creek Canal, 00067000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0							2.9	3.2	7.7	0	8.5
2	0						0	1.6	3.3	7.9	0	8.4
3	0						0	1.8	3.1	8.2	0	8.4
4	0						0	1.9	3.3	7.6	4.6	7.8
5	0						0	4.3	3.6	7.3	8.2	5.0
6	0						0	5.8	1.0	4.9	6.9	4.3
7	0						0	7.6	.56	4.0	6.7	5.0
8	0						0	7.4	2.9	4.3	8.5	5.7
9	0						0	6.9	2.9	4.4	8.6	5.4
10	0						0	6.0	2.9	3.5	9.0	7.2
11	0						0	6.3	.36	3.4	8.1	6.6
12	0						0	6.0	.01	3.5	8.2	2.4
13	0						0	5.4	0	3.2	8.5	1.8
14	0						0	3.5	1.3	.18	8.6	.76
15	0						3.1	2.3	2.2	0	8.1	0
16	0						7.6	2.8	2.1	5.4	7.7	0
17							9.6	6.1	2.9	7.6	8.7	0
18							9.8	5.7	3.6	7.4	9.3	0
19							8.8	6.1	3.1	10	8.8	0
20							9.5	5.7	3.5	6.3	7.4	0
21							9.1	5.4	2.7	.09	5.9	0
22							0	6.2	1.3	0	5.2	0
23							0	6.9	4.1	0	7.0	3.2
24							0	7.1	5.2	0	6.7	5.4
25							0	4.8	5.4	0	4.5	4.6
26							0	4.4	6.8	3.4	5.3	5.1
27							0	4.5	7.9	7.7	5.1	5.3
28							4.8	5.2	8.1	7.0	5.0	6.0
29							5.8	4.3	7.4	7.2	4.9	6.4
30					-----		5.5	2.3	8.0	3.0	4.9	6.3
31		-----			-----		-----	3.0	-----	0	6.0	-----
TOTAL	0						73.6	150.2	102.73	135.17	196.4	119.56
MEAN	0						2.54	4.85	3.42	4.36	6.34	3.99
MAX	0						9.8	7.6	8.1	10	9.3	8.5
MIN	0						0	1.6	0	0	0	0
AC-FT	0						146	298	204	268	390	237
CAL YEAR 2003	MAX	10	MIN	0	AC-FT	900						
WTR YEAR 2004	MAX	9.3	MIN	0	AC-FT	1,540						



## UNION CANAL from Blue Creek, 00146000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6						0	0	8.2	6.5	5.0	8.2
2	6.0						0	0	2.9	6.7	5.2	9.9
3	5.7						0	0	.57	7.1	6.3	12
4	4.2						0	0	1.2	7.9	10	13
5	4.6						0	0	.74	5.9	12	16
6	4.9						0	0	2.3	7.2	5.0	15
7	6.5						0	0	6.2	6.9	3.8	13
8	3.3						0	0	13	6.2	3.6	12
9	.33						0	0	13	8.3	7.5	12
10	2.0						0	0	8.6	.75	5.6	11
11	5.4						0	0	3.1	3.8	8.4	11
12	5.0 E						0	0	4.3	6.9	8.6	10
13	4.0 E						0	3.0	5.7	8.0	7.7	9.7
14	3.0 E						0	6.1	5.7	7.5	7.3	9.2
15	2.0 E						0	9.3	3.6	7.7	13	0
16	1.0 E						0	11	.15	7.6	17	0
17	0						0	9.0	.11	11	16	0
18	0						0	12	.13	14	17	0
19	0						0	15	.09	13	15	0
20	0						0	16	0	12	16	0
21	0						0	14	0	12	16	1.8
22	0					0	0	12	0	13	13	3.1
23	0					0	0	15	0	12	11	3.4
24	0					0	0	15	0	11	12	5.6
25	0					0	0	12	0	11	12	0
26	0					0	0	10	0	11	7.5	0
27	0					0	0	9.1	0	12	7.0	0
28						0	0	9.6	0	11	8.2	3.0
29						0	0	9.5	2.3	12	8.1	4.6
30					-----	0	0	9.7	6.2	2.2	8.0	3.0
31		-----			-----	0	-----	9.8	-----	3.8	7.4	-----
TOTAL	62.53					0	0	207.1	88.09	265.95	300.2	186.5
MEAN	2.32					0	0	6.68	2.94	8.58	9.68	6.22
MAX	6.5					0	0	16	13	14	17	16
MIN	0					0	0	0	0	.75	3.6	0
AC-FT	124					0	0	411	175	528	595	370
CAL YEAR 2003	MAX	17	MIN	0	AC-FT	2,110						
WTR YEAR 2004	MAX	17	MIN	0	AC-FT	2,200						

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

## BLUE CREEK near Lewellen, 06687000 - 2004

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

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

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

PERIOD OF RECORD.--Oct. 1930 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 140 cubic feet per second September 15, gage height 4.34 feet; maximum gage height 6.39 feet January 8 due to backwater from ice; minimum daily discharge 2.4 cubic feet per second May 19.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	95	93	75	85	99	83	61	45	25	61	16
2	43	95	92	76	84	86	83	66	45	23	56	11
3	42	92	93	76	82	98	83	66	50	22	39	4.9
4	41	84	91	76E	83	97	83	66	58	20	18	3.9
5	41	84	90E	76E	83	93	83	63	62	21	8.4	17
6	41	83	86E	74E	82E	92	83	58	59	43	29	30
7	41	83	89	72E	82E	90	82	57	54	33	45	31
8	42	82	93	74E	84E	90	82	54	43	19	46	29
9	43	83	93	78E	84E	93	88	39	41	19	28	32
10	42	84	92E	88E	82	92	94	37	48	73	21	33
11	44	85	91	89	81	88	88	36	57	57	8.6	34
12	50	83	91	90	80E	88	86	54	53	39	8.2	38
13	50	82	90E	89	80E	89	86	49	45	51	6.2	41
14	52	82	88	88	82	88	85	31	39	60	5.4	44
15	51	82	84E	88	82E	86	78	20	35	44	10	124
16	51	81	80E	88	82E	87	72	23	38	20	16	121
17	54	81	86	88	84E	87	67	12	40	11	15	101
18	54	82	93	88	86	87	66	2.7	47	21	21	92
19	53	82	91	87	88	87	67	2.4	64	20	20	89
20	53	83	90	88	86E	85	68	4.7	66	25	27	88
21	53	82	91	88E	82	83	68	14	67	56	32	84
22	53	83	92	86E	82E	83	95	12	69	63	36	92
23	54	82E	90	86E	80	84	121	24	68	67	29	88
24	54	82E	88E	86E	78	85	103	30	62E	66	25	82
25	57	84E	88	86E	79	87	88	30	48E	64	39	73
26	67	86E	87	84E	81	86	75	35	47	46	52	69
27	80	86E	88	80E	82	85	74	35	47	21	51	49
28	84	88E	87	80E	84	84	66	38	47	18	48	45
29	84	88E	80E	82E	90	83	60	38	41	13	49	44
30	81	90E	78E	84E	-----	81	60	41	23	61	47	44
31	83	-----	76E	84E	-----	82	-----	45	-----	67	29	-----
TOTAL	1,679	2,539	2,741	2,574	2,400	2,725	2,417	1,143.8	1,508	1,188	925.8	1,649.8
MEAN	54.2	84.6	88.4	83.0	82.8	87.9	80.6	36.9	50.3	38.3	29.9	55.0
MAX	84	95	93	90	90	99	121	66	69	73	61	124
MIN	41	81	76	72	78	81	60	2.4	23	11	5.4	3.9
AC-FT	3,330	5,040	5,440	5,110	4,760	5,410	4,790	2,270	2,990	2,360	1,840	3,270
CAL YEAR 2003 TOTAL		24,405.65	MEAN	66.9	MAX	123	MIN	0	AC-FT	48,410		
WTR YEAR 2004 TOTAL		23,490.40	MEAN	64.2	MAX	124	MIN	2.4	AC-FT	46,590		

E indicated estimated discharge.

**NORTH PLATTE RIVER at Lewellen, 06687500 - 2004**

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 1,020 cubic feet per second March 1, gage height 5.52 feet; maximum gage height 8.65 feet December 18 due to backwater from ice; minimum daily discharge 55 cubic feet per second July 20.

**DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	845	873	880E	720E	740E	930	686	468	94	260	574	284
2	811	906	900E	720E	760E	923	703	465	104	277	542	244
3	762	930	870	660E	780E	893	709	450	105	294	490	216
4	745	926	829	600E	800E	885	716	439	112	255	433	197
5	732	906	812	580E	820E	868	713	422	108	236	382	231
6	737	909	804	540E	820E	854	701	394	99	319	436	249
7	750	888	858	540E	820E	834	694	363	83	220	444	265
8	739	884	855	560E	800E	820	716	334	66	175	402	321
9	735	891	876	580E	780E	830	809	308	71	175	376	359
10	717	927	846	660E	740E	846	843	290	101	275	343	366
11	661	933	762	700E	720E	829	752	257	101	290	312	410
12	664	901	804	740E	680E	812	744	238	96	237	298	446
13	678	862	837	760E	660E	812	736	224	75	246	274	473
14	695	875	829	780E	680E	801	706	220	77	228	254	503
15	691	901	820E	780E	720E	795	674	211	86	162E	234	674
16	670	897	820E	780E	760E	783	647	209	63	116E	231	683
17	662	894	700E	800E	800E	802	624	198	65	81	216	606
18	648	889	720E	800E	820E	802	596	166	98	73	211	566
19	641	871	760E	820E	840E	807	576	148	126	56	223	553
20	651	862	780E	840E	860E	763	615	125	137	55	248	566
21	661	843	800E	840	860E	758	586	101	151	90	241	584
22	678	859	840E	805	822	770	821	83	146	110	245	669
23	676	820E	880E	815	797	763	906	107	158	146	282	681
24	700	800E	900E	771	806	763	773	116	166	176	343	644
25	715	780E	920E	736	797	745	681	102	177	198	406	643
26	741	760E	880E	792	800	738	622	117	210	304	385	630
27	769	800E	848	741	802	720	588	110	255	438	394	628
28	778	820E	812	700E	813	699	548	112	259	532	393	662
29	794	840E	760E	720E	887	681	491	105	256	546	365	686
30	771	860E	740E	720E	-----	665	478	104	258	601	336	700
31	807	-----	720E	740E	-----	665	-----	101	-----	588	329	-----
TOTAL	22,324	26,107	25,462	22,340	22,784	24,656	20,454	7,087	3,903	7,759	10,642	14,739
MEAN	720	870	821	721	786	795	682	229	130	250	343	491
MAX	845	933	920	840	887	930	906	468	259	601	574	700
MIN	641	760	700	540	660	665	478	83	63	55	211	197
AC-FT	44,280	51,780	50,500	44,310	45,190	48,910	40,570	14,060	7,740	15,390	21,110	29,230
CAL YEAR 2003 TOTAL		221,546	MEAN	607	MAX	1,020	MIN	70	AC-FT	439,400		
WTR YEAR 2004 TOTAL		208,257	MEAN	569	MAX	933	MIN	55	AC-FT	413,100		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

## KINGSLEY RESERVOIR from North Platte River, 06690000 - 2004

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

GAGE.--Electric tape gage read once daily

PERIOD OF RECORD.--1941 - 1988, 1990

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

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

### DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	445,300	484,100	526,500	555,700	590,500	621,100	668,100	682,400	631,400	552,400	443,800	357,700
2	446,700	485,600	528,100	557,300	590,500	622,800	668,100	682,400	627,900	550,700	440,900	355,200
3	448,200	487,200	529,700	557,300	592,200	624,500	669,900	680,600	626,200	545,900	436,600	355,200
4	449,700	488,700	531,300	559,000	593,900	627,900	671,700	680,600	622,800	544,200	433,700	352,700
5	451,100	488,700	531,300	559,000	595,500	627,900	671,700	677,000	621,100	542,600	430,800	351,400
6	451,100	491,800	531,300	559,000	595,500	629,700	673,500	677,000	617,600	539,400	427,900	350,200
7	452,600	493,400	532,900	559,000	595,500	631,400	675,300	677,000	615,900	537,800	425,100	347,700
8	455,500	496,400	534,500	560,600	595,500	633,100	675,300	677,000	614,200	537,800	422,300	347,700
9	455,500	498,000	536,100	560,600	597,200	634,800	677,000	675,300	610,800	532,900	418,000	346,400
10	458,500	499,600	536,100	560,600	597,200	636,600	677,000	673,500	610,800	531,300	415,200	345,200
11	458,500	502,700	536,100	562,200	598,900	638,300	677,000	675,300	607,400	529,700	411,000	343,900
12	458,500	502,700	536,100	563,900	598,900	640,100	678,800	671,700	604,000	528,100	406,900	342,700
13	461,500	504,300	536,100	567,200	600,600	641,800	680,600	669,900	600,600	524,900	404,100	341,400
14	461,500	507,400	537,800	568,800	600,600	641,800	680,600	668,100	597,200	521,700	400,000	341,400
15	463,000	509,000	539,400	570,500	602,300	643,500	682,400	666,300	593,900	518,500	397,200	342,700
16	464,400	510,600	537,800	572,100	602,300	645,300	682,400	664,600	592,200	513,700	394,600	342,700
17	465,900	513,700	539,400	573,800	604,000	647,000	682,400	662,800	590,500	509,000	390,500	342,700
18	465,900	515,300	539,400	575,500	605,700	648,800	682,400	659,300	588,800	504,300	387,800	342,700
19	467,400	515,300	541,000	578,800	609,100	650,500	682,400	657,500	585,500	499,600	385,100	341,400
20	468,900	518,500	541,000	580,400	609,100	652,300	682,400	655,800	582,100	496,400	382,500	342,700
21	470,400	516,900	544,200	582,100	610,800	652,300	682,400	654,000	580,400	490,200	378,500	343,900
22	471,900	518,500	544,200	583,800	612,500	654,000	684,200	654,000	578,800	485,600	375,900	345,200
23	473,400	520,100	547,500	585,500	612,500	655,800	686,000	650,500	577,100	481,000	374,500	347,700
24	473,400	520,100	547,500	587,100	614,200	657,500	684,200	648,800	575,500	476,500	371,900	347,700
25	475,000	520,100	550,700	588,800	614,200	657,500	686,000	647,000	572,100	471,900	371,900	348,900
26	476,500	520,100	552,400	588,800	615,900	659,300	686,000	645,300	570,500	465,900	369,300	350,200
27	478,000	521,700	554,000	588,800	617,600	661,100	684,200	641,800	568,800	461,500	366,700	351,400
28	478,000	523,300	554,000	587,100	617,600	662,800	684,200	638,300	563,900	457,000	365,400	352,700
29	481,000	523,300	554,000	587,100	621,100	664,600	684,200	638,300	560,600	455,500	364,200	352,700
30	481,000	524,900	554,000	587,100	-----	664,600	682,400	636,600	555,700	449,700	361,600	355,200
31	481,000	-----	554,000	588,800	-----	666,300	-----	633,100	-----	446,700	360,300	-----
MAX	481,000	524,900	554,000	588,800	621,100	666,300	686,000	682,400	631,400	552,400	443,800	357,700
MIN	445,300	484,100	526,500	555,700	590,500	621,100	668,100	633,100	555,700	446,700	360,300	341,400
CHANGE	37,200	43,900	29,100	34,800	32,300	45,200	16,100	-49,300	-77,400	-109,000	-86,400	-5,100
CAL YEAR 2003			MEAN	653,714	MAX	834,000	MIN	434,000				
WTR YEAR 2004			MEAN	543,244	MAX	686,000	MIN	341,400				

**SUTHERLAND CANAL from North Platte River and Kingsley Reservoir, 00138000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44E	30E	364	320	362	174	16E	778	1,140	1,750	1,660	992
2	43E	29E	366	316	365	42E	16E	778	1,120	1,740	1,660	1,020
3	42E	29E	366	321	364	42E	16E	778	1,120	1,650	1,660	990
4	41E	29E	366	374	366	42E	16E	772	1,110	1,420	1,650	862
5	40E	29E	373	407	365	42E	16E	773	1,120	1,260	1,650	766
6	40E	28E	373	409	370	42E	16E	811	1,120	1,060	1,640	704
7	39E	28E	367	372	368	42E	213	826	1,110	914	1,630	704
8	39E	27E	369	316	366	42E	303	823	1,110	923	1,620	705
9	39E	27E	372	299	365	30E	374	816	1,150	970	1,610	702
10	38E	26E	376	298	365	19E	383	826	1,240	911	1,620	705
11	37E	25E	376	294	364	19E	383	828	1,350	841	1,610	704
12	37E	24E	378	298	373	19E	389	874	1,380	912	1,610	701
13	36E	23E	379	296	368	19E	377	1,000	1,370	1,080	1,600	698
14	35E	22E	375	293	366	19E	378	1,110	1,320	1,360	1,600	702
15	34E	21E	373	204E	363	19E	378	1,110	1,200	1,360	1,600	698
16	34E	21E	379	27E	361	19E	381	1,100	1,360	1,360	1,570	687
17	33E	20E	376	27E	359	19E	383	1,110	1,360	1,370	1,480	637
18	33E	20E	359	27E	356	19E	444	1,100	1,360	1,440	1,450	533
19	33E	20E	324	27E	357	19E	551	1,110	1,360	1,540	1,470	429
20	33E	67E	321	27E	358	19E	665	1,110	1,360	1,720	1,420	364
21	33E	307	318	27E	359	18E	764	1,120	1,280	1,680	1,390	326
22	33E	379	322	27E	357	18E	804	1,130	1,120	1,590	1,380	219
23	33E	366	324	27E	359	18E	801	1,130	967	1,600	1,340	44E
24	32E	366	323	171E	357	17E	796	1,140	900	1,610	1,240	44E
25	32E	365	321	362	358	17E	779	1,140	994	1,620	1,060	44E
26	32E	366	322	370	357	17E	780	1,140	1,150	1,620	959	44E
27	32E	363	318	369	355	16E	775	1,130	1,260	1,630	960	44E
28	31E	364	317	370	354	16E	774	1,130	1,350	1,640	958	44E
29	31E	361	324	367	281	16E	785	1,130	1,480	1,640	955	44E
30	31E	360	323	366	-----	16E	782	1,140	1,660	1,650	955	46E
31	30E	-----	323	363	-----	16E	-----	1,140	-----	1,650	950	-----
TOTAL	1,100	4,142	10,867	7,771	10,418	892	13,538	30,903	36,921	43,511	43,957	15,202
MEAN	35.5	138	351	251	359	28.8	451	997	1,231	1,404	1,418	507
MAX	44	379	379	409	373	174	804	1,140	1,660	1,750	1,660	1,020
MIN	30	20	317	27	281	16	16	772	900	841	950	44
AC-FT	2,180	8,220	21,550	15,410	20,660	1,770	26,850	61,300	73,230	86,300	87,190	30,150
CAL YEAR 2003 TOTAL		222,451	MEAN	609	MAX	1,780	MIN	20	AC-FT	441,200		
WTR YEAR 2004 TOTAL		219,222	MEAN	599	MAX	1,750	MIN	16	AC-FT	434,800		

E indicates estimated discharge.

## SOUTH PLATTE RIVER BASIN

## SOUTH PLATTE SUPPLY CANAL (Korty) from South Platte River, 06764900 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	20E	0	0	0	0	0	0
6	0	0	0	0	0	20E	0	0	0	0	0	0
7	0	0	0	0	0	20E	0	0	0	0	0	0
8	0	0	0	0	0	25E	0	0	0	0	0	0
9	0	0	0	0	0	25	0	0	0	0	0	0
10	0	0	0	0	0	26	0	0	0	0	0	0
11	0	0	0	0	0	27	0	0	0	0	0	0
12	0	0	0	0	0	27	0	0	0	0	0	0
13	0	0	0	0	0	27	0	0	0	0	0	0
14	0	0	0	0	0	26	0	0	0	0	0	0
15	0	0	0	0	0	25	0	0	0	0	0	0
16	0	0	0	0	0	24	0	0	0	0	0	0
17	0	0	0	0	0	24	0	0	0	0	0	0
18	0	0	0	0	0	23	0	0	0	0	0	0
19	0	0	0	0	0	22	0	0	0	0	0	0
20	0	0	0	0	0	19	0	0	0	0	0	0
21	0	0	0	0	0	19	0	0	0	0	0	0
22	0	0	0	0	0	19	0	0	0	0	0	0
23	0	0	0	0	0	19	0	0	0	0	0	0
24	0	0	0	0	0	19	0	0	0	0	0	0
25	0	0	0	0	0	19	0	0	0	0	0	0
26	0	0	0	0	0	19	0	0	0	0	0	0
27	0	0	0	0	0	19	0	0	0	0	0	0
28	0	0	0	0	0	20	0	0	0	0	0	0
29	0	0	0	0	0	18	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	0	0	0	0	0	551	0	0	0	0	0	0
MEAN	0	0	0	0	0	17.8	0	0	0	0	0	0
MAX	0	0	0	0	0	27	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	1,090	0	0	0	0	0	0
CAL YEAR 2003	TOTAL	6,287	MEAN	17.2	MAX	107	MIN	0	AC-FT	12,470		
WTR YEAR 2004	TOTAL	551	MEAN	1.50	MAX	27	MIN	0	AC-FT	1,090		

E indicates estimated discharge.

**SUTHERLAND RESERVOIR from North & South Platte Rivers, 00409100 - 2004**

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

GAGE.--Staff gage

PERIOD OF RECORD.--1936 - present

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

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

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52,391	44,590	45,211	49,996	48,357	53,705	41,313	50,220	50,024	55,493	50,164	42,796
2	52,107	44,456	45,401	50,024	48,551	53,361	40,866	50,809	50,584	56,832	50,024	43,623
3	51,824	44,294	45,645	50,136	48,717	52,932	40,578	50,893	51,090	57,506	49,300	44,617
4	51,512	44,106	45,917	50,248	48,901	52,590	40,159	51,146	51,739	57,653	49,022	45,672
5	51,287	43,945	46,162	50,304	49,133	52,164	39,820	51,399	52,334	58,153	48,302	46,407
6	51,202	43,757	46,325	50,304	49,300	51,654	39,456	51,005	52,761	58,094	48,136	47,063
7	50,668	43,570	46,380	50,500	49,522	51,258	39,119	50,696	53,075	58,300	47,668	47,888
8	50,416	43,383	46,598	50,612	49,745	50,781	39,196	50,052	53,303	58,477	47,338	48,661
9	50,164	43,276	46,817	50,640	49,968	50,332	39,560	49,634	53,303	58,743	47,283	49,522
10	49,857	43,089	46,981	50,696	50,108	49,913	39,768	49,049	53,189	59,127	46,653	50,332
11	49,522	43,035	47,310	50,696	50,248	49,411	40,029	48,440	53,075	59,009	46,216	51,062
12	49,244	42,689	47,393	50,781	50,416	49,077	40,238	47,888	53,160	58,979	45,754	51,880
13	49,077	42,556	47,668	50,640	50,584	48,828	40,394	47,640	53,218	59,098	45,455	52,675
14	48,717	42,344	47,888	50,668	50,752	48,384	40,578	47,310	53,275	58,950	44,995	53,733
15	48,495	42,132	48,081	50,668	50,977	47,915	40,683	47,310	53,647	58,743	44,644	54,423
16	48,219	41,973	48,329	50,220	51,146	47,530	40,683	47,036	53,676	58,477	44,671	55,174
17	48,081	41,814	48,467	49,745	51,315	47,146	40,761	46,872	53,848	58,271	44,752	55,958
18	47,833	41,577	48,606	49,244	51,541	46,735	40,971	46,653	54,078	57,330	44,671	56,540
19	47,668	41,392	48,717	48,772	51,767	46,380	41,603	46,544	55,232	56,832	44,563	56,891
20	47,420	41,182	48,828	48,302	51,880	45,998	42,053	46,489	56,540	55,725	44,294	57,301
21	47,200	41,445	48,938	47,860	52,192	45,645	43,142	46,516	57,770	55,001	44,348	57,682
22	46,981	42,000	49,022	47,420	52,391	45,238	44,267	47,146	58,477	54,625	44,590	57,770
23	46,735	42,424	49,105	47,036	52,618	45,049	45,320	47,173	59,127	53,963	45,618	57,770
24	46,462	42,876	49,244	46,817	52,818	44,689	46,107	47,228	59,721	53,275	46,134	57,418
25	46,162	43,383	49,300	46,899	52,903	44,267	46,817	47,613	59,751	53,103	45,564	56,774
26	45,998	43,811	49,439	47,118	53,160	43,918	47,420	47,860	59,572	52,164	45,076	56,394
27	45,781	44,079	49,550	47,228	53,332	43,516	48,081	47,970	57,917	51,880	44,456	56,016
28	45,564	44,402	49,550	47,475	53,532	43,062	48,606	48,191	56,978	51,371	43,918	55,638
29	45,320	44,725	49,634	47,668	53,992	42,610	49,105	48,717	55,580	51,062	43,409	55,348
30	44,995	45,049	49,689	47,860	-----	42,159	49,662	49,133	55,261	50,752	42,929	55,116
31	44,752	-----	49,857	48,081	-----	41,735	-----	49,383	-----	50,500	42,556	-----
MAX	52,391	45,049	49,857	50,781	53,992	53,705	49,662	51,399	59,751	59,127	50,164	57,770
MIN	44,752	41,182	45,211	46,817	48,357	41,735	39,119	46,489	50,024	50,500	42,556	42,796
CHANGE	-7,780	297	4,808	-1,776	5,911	-12,257	7,927	-279	5,878	-4,761	-7,944	12,560
CAL YEAR 2003			MEAN	48,354	MAX	62,600	MIN	40,000				
WTR YEAR 2004			MEAN	48,971	MAX	59,751	MIN	39,119				

# NORTH & SOUTH PLATTE RIVER BASIN

## MALONEY RESERVOIR from North & South Platte Rivers, 00405500 - 2004

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

GAGE.--Staff gage

PERIOD OF RECORD.--1936 - present

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

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

### DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16,200	13,490	11,410	15,580	17,480	17,800	17,320	17,965	17,480	17,800	17,965	18,130
2	16,200	13,490	11,540	15,735	17,480	17,800	17,320	17,965	17,480	17,965	17,800	17,965
3	16,200	13,345	11,670	15,890	17,480	17,640	17,320	17,800	17,320	17,965	17,800	17,640
4	16,045	13,345	11,670	16,045	17,480	17,480	17,480	17,965	17,320	17,965	17,640	17,320
5	16,045	13,200	11,800	15,890	17,480	17,480	17,480	17,965	17,320	18,130	17,480	17,160
6	15,890	13,200	12,080	15,890	17,480	17,640	17,320	17,480	17,480	18,295	17,480	17,320
7	15,890	13,200	12,220	16,200	17,640	17,640	17,320	17,320	17,480	18,295	17,480	17,320
8	15,890	13,060	12,360	16,360	17,800	17,640	17,320	17,160	17,480	18,295	17,480	17,320
9	15,890	12,920	12,500	16,680	17,800	17,480	17,320	17,320	17,800	18,295	17,480	17,320
10	15,735	12,780	12,640	16,840	17,965	17,480	17,320	17,480	17,965	17,965	17,320	17,160
11	15,735	12,640	12,780	17,000	17,640	17,320	17,480	17,320	18,130	17,800	17,320	17,160
12	15,580	12,640	12,920	17,160	17,640	17,320	17,480	17,480	18,295	17,800	17,320	17,160
13	15,580	12,500	13,060	17,320	17,640	17,480	17,480	17,480	18,295	17,800	17,320	17,000
14	15,425	12,360	13,200	17,640	17,800	17,480	17,480	17,640	18,295	17,800	17,320	17,160
15	15,270	12,360	13,345	17,640	17,965	17,480	17,480	17,640	18,130	17,800	17,320	17,160
16	15,270	12,220	13,490	17,480	17,800	17,480	17,480	17,800	18,130	17,965	17,320	17,000
17	15,115	12,220	13,635	17,640	17,800	17,480	17,640	17,965	18,130	17,965	17,320	17,000
18	15,115	12,080	13,780	17,800	17,640	17,320	17,800	17,965	18,130	17,800	17,320	17,000
19	14,960	11,940	13,925	17,640	17,640	17,480	17,800	17,965	18,130	17,800	17,320	17,000
20	14,805	11,800	14,070	17,640	17,640	17,480	17,640	17,965	18,295	17,000	17,800	16,840
21	14,805	11,800	14,215	17,640	17,800	17,640	17,640	17,965	17,965	17,800	17,965	16,840
22	14,650	11,800	14,360	17,480	17,800	17,480	17,640	18,295	17,965	17,800	18,295	17,800
23	14,505	11,670	14,505	17,480	17,800	17,480	17,640	18,130	17,640	17,800	18,295	17,800
24	14,360	11,540	14,650	17,640	17,640	17,640	17,800	18,130	17,640	17,800	17,965	17,000
25	14,215	11,410	14,650	17,640	17,640	17,480	17,800	18,130	17,480	17,800	17,800	17,000
26	14,070	11,280	14,805	17,480	17,480	17,480	17,965	18,130	17,320	17,800	17,640	16,840
27	14,070	11,280	14,960	17,480	17,480	17,480	18,130	18,130	17,320	17,800	17,480	16,840
28	14,070	11,280	15,115	17,320	17,640	17,320	17,965	18,130	17,480	17,800	17,480	16,840
29	13,925	11,280	15,270	17,320	17,965	17,320	17,965	17,965	17,480	17,965	17,480	16,840
30	13,780	11,280	15,425	17,160	-----	17,320	17,965	17,800	17,640	17,965	17,640	16,840
31	13,635	-----	15,425	17,320	-----	17,320	-----	17,640	-----	17,965	17,965	-----
MAX	16,200	13,490	15,425	17,800	17,965	17,800	18,130	18,295	18,295	18,295	18,295	18,130
MIN	13,635	11,280	11,410	15,580	17,480	17,320	17,320	17,160	17,320	17,000	17,320	16,840
CHANGE	-2,565	-2,355	4,145	1,895	645	-645	645	-325	0	325	0	-1,125
CAL YEAR 2003			MEAN	16,602	MAX	18,300	MIN	11,280				
WTR YEAR 2004			MEAN	16,579	MAX	18,295	MIN	11,280				



**SUTHERLAND POWER RETURN to the South Platte River, 00140000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	209	51	342	640	1,500	1,610	734
2	0	0	0	0	170	208	173	307	529	1,320	1,590	599
3	0	0	0	0	0	171	20	476	529	1,160	1,610	466
4	0	0	0	0	170	215	20	480	526	1,040	1,600	325
5	0	0	0	160	152	215	160	533	426	917	1,600	260
6	0	0	0	155	185	82	108	654	534	784	1,570	150
7	0	0	0	75	58	81	213	827	592	854	1,550	25
8	0	0	0	57	57	194	111	812	687	877	1,540	0
9	0	0	0	57	129	192	105	834	637	762	1,520	0
10	0	0	0	57	28	202	57	814	758	786	1,560	0
11	0	0	0	57	186	202	25	872	864	854	1,530	0
12	0	0	0	56	116	171	216	839	910	753	1,530	0
13	0	0	0	56	114	90	216	829	904	677	1,530	0
14	0	0	0	129	0	109	227	782	909	749	1,530	0
15	0	0	0	287	0	192	212	908	910	950	1,530	0
16	0	0	0	206	122	190	153	919	1,180	1,020	1,550	0
17	0	0	0	57	240	172	20	909	934	1,150	1,420	0
18	0	0	0	57	120	164	20	921	989	1,280	1,290	0
19	0	0	0	200	397	115	292	935	785	1,430	1,280	0
20	0	0	0	203	24	20	256	948	747	1,550	1,280	0
21	0	0	0	204	70	20	271	942	632	1,580	1,140	0
22	0	0	0	206	20	102	130	806	437	1,640	995	0
23	0	0	0	224	120	102	135	859	496	1,630	1,060	0
24	0	0	0	67	120	104	20	794	400	1,600	1,040	0
25	0	0	0	57	120	100	20	793	491	1,600	1,030	0
26	0	0	0	127	123	189	374	793	699	1,590	1,030	0
27	0	0	0	157	123	20	350	795	908	1,590	1,040	0
28	0	0	0	144	20	20	362	770	1,120	1,600	1,050	0
29	0	0	0	148	21	226	340	771	1,320	1,590	1,050	0
30	0	0	0	148	-----	125	371	636	1,530	1,590	967	0
31	0	-----	0	0	-----	56	-----	636	-----	1,610	839	-----
TOTAL	0	0	0	3,351	3,005	4,258	5,028	23,536	23,023	38,033	41,461	2,559
MEAN	0	0	0	108	104	137	168	759	767	1,227	1,337	85.3
MAX	0	0	0	287	397	226	374	948	1,530	1,640	1,610	734
MIN	0	0	0	0	0	20	20	307	400	677	839	0
AC-FT	0	0	0	6,650	5,960	8,450	9,970	46,680	45,670	75,440	82,240	5,080
CAL YEAR 2003	TOTAL	143,422	MEAN	393	MAX	1,660	MIN	0	AC-FT	284,500		
WTR YEAR 2004	TOTAL	144,254	MEAN	394	MAX	1,640	MIN	0	AC-FT	286,100		

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER near Keystone, 06690500 - 2004

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

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,190 cubic feet per second July 29, gage height 4.23 feet; zero discharge October 1 - May 20 and September 22 - 30.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	146	420	501	235
2	0	0	0	0	0	0	0	0	164	319	461	231
3	0	0	0	0	0	0	0	0	159	268	344	234
4	0	0	0	0	0	0	0	0	163	263	295	232
5	0	0	0	0	0	0	0	0	161	263	295	230
6	0	0	0	0	0	0	0	0	163	260	324	222
7	0	0	0	0	0	0	0	0	168	273	334	217
8	0	0	0	0	0	0	0	0	155	354	325	235
9	0	0	0	0	0	0	0	0	117	379	336	244
10	0	0	0	0	0	0	0	0	131	318	359	257
11	0	0	0	0	0	0	0	0	142	296	371	233
12	0	0	0	0	0	0	0	0	144	303	365	233
13	0	0	0	0	0	0	0	0	143	305	339	187
14	0	0	0	0	0	0	0	0	128	322	315	146
15	0	0	0	0	0	0	0	0	120	790	314	44
16	0	0	0	0	0	0	0	0	120	854	287	4.0
17	0	0	0	0	0	0	0	0	120	812	257	2.9
18	0	0	0	0	0	0	0	0	124	826	259	2.5
19	0	0	0	0	0	0	0	0	125	837	253	1.8
20	0	0	0	0	0	0	0	0	133	828	267	1.2
21	0	0	0	0	0	0	0	25	130	759	278	1.4
22	0	0	0	0	0	0	0	115	121	693	259	1.4
23	0	0	0	0	0	0	0	135	125	934	273	0
24	0	0	0	0	0	0	0	138	124	943	295	0
25	0	0	0	0	0	0	0	136	125	960	295	0
26	0	0	0	0	0	0	0	133	275	973	282	0
27	0	0	0	0	0	0	0	137	361	1,080	290	0
28	0	0	0	0	0	0	0	139	354	1,140	285	0
29	0	0	0	0	0	0	0	141	403	1,170	293	0
30	0	0	0	0	-----	0	0	143	473	737	290	0
31	0	-----	0	0	-----	0	-----	134	-----	553	266	-----
TOTAL	0	0	0	0	0	0	0	1,376	5,317	19,232	9,707	3,195.2
MEAN	0	0	0	0	0	0	0	44.4	177	620	313	107
MAX	0	0	0	0	0	0	0	143	473	1,170	501	257
MIN	0	0	0	0	0	0	0	0	117	260	253	0
AC-FT	0	0	0	0	0	0	0	2,730	10,550	38,150	19,250	6,340
CAL YEAR 2003	TOTAL	77,484.40	MEAN	212	MAX	1,790	MIN	0	AC-FT	153,700		
WTR YEAR 2004	TOTAL	38,827.20	MEAN	106	MAX	1,170	MIN	0	AC-FT	77,010		

**KEITH - LINCOLN COUNTY CANAL from North Platte River, 00076000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	54	38	44	57
2							0	10	53	51	56	58
3							0	24	53	51	62	56
4							0	23	62	51	63	56
5							0	22	41	52	66	56
6							0	23	0	55	67	56
7							0	20	0	60	68	56
8							0	20	8.2	58	68	55
9							0	19	28	29	67	55
10							0	13	28	29	66	55
11							0	13	33	29	67	54
12							0	12	51	46	66	54
13							0	12	49	57	67	54
14							0	13	32	57	67	43
15							0	14	24	56	67	0
16							0	13	24	54	63	0
17							0	13	24	27	61	0
18							0	14	25	0	60	0
19							0	12	25	21	58	0
20							0	11	26	43	61	0
21							0	11	26	24	62	0
22							0	34	25	0	62	0
23							0	26	25	0	62	0
24							0	27	25	0	61	0
25							0	28	26	0	23	0
26							0	28	26	26	0	0
27							0	33	26	63	0	0
28							0	50	33	61	0	
29						0	0	52	52	61	33	
30					-----	0	0	53	27	49	58	
31		-----			-----	0	-----	54	-----	43	57	-----
TOTAL						0	0	697	931.2	1,191	1,682	765
MEAN						0	0	22.5	31.0	38.4	54.3	28.3
MAX						0	0	54	62	63	68	58
MIN						0	0	0	0	0	0	0
AC-FT						0	0	1,380	1,850	2,360	3,340	1,520
CAL YEAR 2003	MAX	84	MIN	0	AC-FT	9,170						
WTR YEAR 2004	MAX	68	MIN	0	AC-FT	10,450						

# NORTH PLATTE RIVER BASIN

**NORTH PLATTE CANAL from North Platte River, 00114000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	22E	82	134	112	159
2							0	24E	78	128	126	174
3							0	26E	79	123	104	172
4							0	25	72	153	94	163
5							.37	24	66	172	122	154
6							1.1	23	60	171	174	175
7							39	26	73	188	195	180
8							47	25	128	194	206	183
9							41	34	108	231	201	185
10							36	49	112	225	219	165
11							36	49	103	197	237	133
12							24	48	91	193	234	112
13							16	50	89	193	204	76
14							15	51	94	212	186	74
15							15	55	108	212	165	66
16							32	54	108	208	170	65
17							26	53	108	222	174	63
18							27	54	102	217	181	38
19							57	56	73	216	183	16
20							60	52	71	206	190	16
21							59	49	72	198	192	15
22							50	50	71	180	197	7.5
23							39	99	71	193	196	6.9
24							38	109	70	192	211	6.3
25							37	121	67	192	208	6.3
26							87	125	46	194	175	6.1
27							93	109	4.2	195	158	11
28							66	107	7.2	190	147	5.5
29						0	46	96	112	193	140	5.0
30					-----	0	20	E	91	125	159	133
31		-----			-----	0	-----	90	-----	110	144	-----
TOTAL						0	1,007.47	1,846	2,450.4	5,791	5,378	2,443.8
MEAN						0	33.6	59.5	81.7	187	173	81.5
MAX						0	93	125	128	231	237	185
MIN						0	0	22	4.2	110	94	5.0
AC-FT						0	2,000	3,660	4,860	11,490	10,670	4,850
CAL YEAR 2003	MAX	275	MIN	0	AC-FT	40,400						
WTR YEAR 2004	MAX	237	MIN	0	AC-FT	37,520						

E indicates estimated discharge.

**PAXTON-HERSHEY CANAL from North Platte River, 00121000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	15	31	56	43	41
2							0	23	33	56	44	34
3							0	20	35	56	54	36
4							0	29	37	54	57	43
5							0	26	38	50	56	53
6							0	25	42	54	59	45
7							0	22	41	49	57	37
8							0	20	37	56	57	32
9							0	14	36	60	64	39
10							0	0	42	49	64	47
11							0	0	41	50	64	54
12							0	0	40	50	64	42
13							0	0	36	49	61	39
14							0	0	29	50	58	36
15							0	4.2	28	51	60	37
16							0	4.4	31	49	59	36
17							0	4.5	33	50	56	34
18							0	5.1	38	51	58	34
19							0	5.9	46	46	64	34
20							0	5.6	45	31	52	12
21							0	5.4	55	31	46	0
22							0	6.7	43	27	43	0
23							0	15	38	19	36	0
24							0	34	42	19	45	0
25							0	31	41	19	48	0
26							0	35	44	31	19	0
27							0	29	48	39	0	0
28							0	26	50	46	0	0
29						0	0	31	46	52	0	0
30					-----	0	0	33	47	44	26	0
31		-----			-----	0	-----	31	-----	36	43	-----
TOTAL						0	0	500.8	1,193	1,380	1,457	765
MEAN						0	0	16.2	39.8	44.5	47.0	25.5
MAX						0	0	35	55	60	64	54
MIN						0	0	0	28	19	0	0
AC-FT						0	0	993	2,370	2,740	2,890	1,520
CAL YEAR 2003	MAX	59	MIN	0	AC-FT	9,850						
WTR YEAR 2004	MAX	64	MIN	0	AC-FT	10,500						

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER near Sutherland, 06691000 - 2004

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 fair, 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 1,340 cubic feet per second July 30, gage height 4.37 feet; minimum daily discharge 9.5 cubic feet per second May 18.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	87	100	108E	98E	112E	75	41	60	345	441	70
2	85	95	101	94E	102E	112E	74	33	63	323	361	34
3	82	105	105	90E	104E	107	68	29	61	228	300	25
4	77	105	108	88E	100E	111	69	27	64	119	172	24
5	76	100	100E	90E	100E	113	71	26	66	71	109	27
6	78	102	98E	96E	102E	108	70	24	91	61	68	21
7	79	101	98E	98E	100E	103	50	23	80	47	53	17
8	82	103	96E	100E	98E	103	41	23	42	36	38	16
9	82	106	92E	104E	100E	98	42	23	37	71	32	19
10	85	112	96E	110E	100E	96	45	22	44	248	31	25
11	80	113	96E	112E	100E	89	44	20	41	224	36	57
12	80	108	98E	114E	98E	88	55	15	40	138	41	69
13	80	104	96E	112E	100E	97	68	13	35	81	67	109
14	78	107	92E	110E	100E	91	69	13	30	55	76	110
15	77	107	96E	106E	102E	90	70	12	29	54	85	181
16	78	105	98E	104E	102E	92	55	11	32	428	85	134
17	82	105	100E	102E	104E	101	52	10	33	501	59	91
18	86	107	104E	102E	104E	103	54	9.5	41	519	31	91
19	85	108	104E	100E	106E	103	45	10	61	511	21	101
20	86	103	106E	100E	106E	94	50	10	75	500	20	111
21	87	97	106E	96E	106E	85	45	10	108	601	18	145
22	89	107	108E	94E	106E	84	77	13	84	675	16	205
23	90	100E	110E	92E	106E	85	122	14	78	648	17	198
24	87	96E	110E	90E	108E	91	91	11	73	861	23	168
25	80	98E	108E	90E	108E	92	86	12	71	887	57	149
26	83	100E	106E	92E	110E	86	52	45	79	863	112	138
27	90	102E	104E	92E	110E	85	39	52	193	777	129	126
28	88	102E	106E	90E	110E	82	45	49	320	918	158	120
29	91	104E	108E	90E	112E	79	39	53	195	912	169	116
30	88	104	110E	92E	-----	78	39	53	237	1,170	131	116
31	87	-----	110E	94E	-----	77	-----	56	-----	588	103	-----
TOTAL	2,590	3,093	3,170	3,052	3,002	2,935	1,802	762.5	2,463	13,460	3,059	2,813
MEAN	83.5	103	102	98.5	104	94.7	60.1	24.6	82.1	434	98.7	93.8
MAX	92	113	110	114	112	113	122	56	320	1,170	441	205
MIN	76	87	92	88	98	77	39	9.5	29	36	16	16
AC-FT	5,140	6,130	6,290	6,050	5,950	5,820	3,570	1,510	4,890	26,700	6,070	5,580
CAL YEAR 2003 TOTAL		78,309.0	MEAN	215	MAX	1,460	MIN	18	AC-FT	155,300		
WTR YEAR 2004 TOTAL		42,201.5	MEAN	115	MAX	1,170	MIN	9.5	AC-FT	83,710		

E indicates estimated discharge.

## BIRDWOOD CANAL from Birdwood Creek, 00016000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0						0	18	33	28	15	23
2	0						0	18	33	28	16	26
3	0						0	18	32	25	19	28
4	0						0	18	31	25	22	29
5	0						0	18	32	26	23	32
6	0						0	19	33	27	24	22
7	0						6.3	18	32	25	24	13
8	0						22	19	31	25	25	13
9							24	19	32	25	25	20
10							10	19	35	27	26	23
11							1.8	18	34	27	28	14
12							1.7	25	32	27	27	19
13							18	28	32	24	27	23
14							31	29	32	25	27	26
15							25	30	31	30	29	28
16							26	31	16	32	30	23
17							20	31	14	36	30	21
18							16	28	14	33	34	22
19							17	30	15	33	39	22
20							20	32	22	32	40	23
21							21	33	29	39	38	20
22							21	34	26	40	38	23
23							24	34	26	29	37	20
24							20	35	27	27	38	13
25							20	35	25	24	29	13
26							19	34	29	20	21	12
27							18	35	31	20	20	12
28							19	33	29	20	18	11
29						0	19	34	28	19	19	11
30					-----	0	18	35	29	22	19	11
31		-----			-----	0	-----	32	-----	19	17	-----
TOTAL	0					0	437.8	840	845	839	824	596
MEAN	0					0	14.6	27.1	28.2	27.1	26.6	19.9
MAX	0					0	31	35	35	40	40	32
MIN	0					0	0	18	14	19	15	11
AC-FT	0					0	868	1,670	1,680	1,660	1,630	1,180
CAL YEAR 2003	MAX	55	MIN	0	AC-FT	7,320						
WTR YEAR 2004	MAX	40	MIN	0	AC-FT	8,690						

# NORTH PLATTE RIVER BASIN

## BIRDWOOD CREEK near Hershey, 06692000 - 2004

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

GAGE.--Continuous stage recorder

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 215 cubic feet per second September 22, gage height 1.91 feet; maximum gage height 2.09 feet April 23; minimum daily discharge 105 cubic feet per second August 23.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	160E	167	160	170E	183	164	140	115	142	139	115
2	156	160E	166	160E	170E	164	165	139	116	161	137	113
3	155	160E	166	160E	165E	173	163	139	115	160	136	111
4	151	160E	166	160	170E	178	163	141	118	147	132	112
5	150	155E	159	160E	170E	167	147	143	124	144	127	116
6	152	155E	158	160E	165E	171	144	142	121	151	131	126
7	158	155E	164	155E	165E	163	141	140	120	140	130	128
8	159	155E	169	160E	165	166	138	140	119	136	129	134
9	157	155E	163	162	163	166	146	140	120	137	127	135
10	160	155E	159	162	165	169	164	141	144	159	128	137
11	161	155E	160	163	163	163	152	140	143	150	126	131
12	154	155E	159	161	159	165	151	135	119	134	122	124
13	154	157	159	162	159	170	134	124	122	130	121	122
14	153	161	162	163	161	166	124	123	123	127	122	127
15	153	161	163	165	157	165	123	126	128	120	124	154
16	158	163	155	166	157	165	120	128	159	116	125	151
17	157	163	157	167	159	167	124	126	155	125	121	135
18	161	163	158	168	165	166	128	121	157	117	118	135
19	162	161	156	167	168	167	128	117	157	110	113	132
20	160	163	160	166	163	164	132	111	150	110	113	135
21	160	161	164	168	161	162	131	108	151	123	109	170
22	159	160	160E	168	161	162	152	113	141	125	106	195
23	160	158	161	172	163	166	185	130	137	117	105	185
24	159	168	160	172	161	166	149	118	136	123	108	158
25	155	169	161	171	161	165	148	114	134	128	133	152
26	155E	168	162	165	162	166	138	130	136	132	129	153
27	160E	163	162	160E	165	170	136	124	138	131	126	153
28	159	162	161	160E	167	166	138	117	135	137	128	148
29	160	166	156	165E	180	161	137	119	132	134	124	151
30	160E	170	160	165E	-----	161	137	121	134	166	122	154
31	160E	-----	160	165E	-----	162	-----	117	-----	155	122	-----
TOTAL	4,873	4,817	4,993	5,078	4,760	5,165	4,302	3,967	3,999	4,187	3,833	4,192
MEAN	157	161	161	164	164	167	143	128	133	135	124	140
MAX	162	170	169	172	180	183	185	143	159	166	139	195
MIN	150	155	155	155	157	161	120	108	115	110	105	111
AC-FT	9,670	9,550	9,900	10,070	9,440	10,240	8,530	7,870	7,930	8,300	7,600	8,310
CAL YEAR 2003 TOTAL		54,980	MEAN	151	MAX	226	MIN	101	AC-FT	109,100		
WTR YEAR 2004 TOTAL		54,166	MEAN	148	MAX	195	MIN	105	AC-FT	107,400		

E indicates estimated discharge.



**SUBURBAN CANAL from North Platte River, 00136000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								17	60	36	77	69
2								44	60	36	74	70
3								51	59	35	77	69
4								39	66	28	73	69
5							0	39	72	24	78	70
6							0	39	73	45	73	68
7							0	39	68	44	72	68
8							0	39	64	57	69	68
9							0	40	63	72	68	69
10							0	39	64	82	68	68
11							0	38	62	85	69	69
12							0	38	62	82	71	70
13							0	45	56	78	72	71
14							0	44	50	77	73	71
15							0	41	51	77	73	72
16							0	41	60	85	72	68
17							0	45	51	82	70	64
18							0	57	44	79	67	68
19							0	63	42	79	66	59
20							0	63	43	77	65	47
21							0	61	41	80	65	26
22							0	61	40	80	65	27
23							.10	62	38	77	65	24
24							0	61	37	82	66	22
25							0	61	37	79	73	23
26							.04	64	35	74	78	23
27							1.0	65	40	75	69	22
28							1.7	63	41	86	58	14
29							2.7	61	39	83	53	3.4
30					-----		3.9	63	35	83	51	2.2
31		-----			-----		-----	71	-----	60	70	-----
TOTAL							9.44	1,554	1,553	2,119	2,140	1,533.6
MEAN							.36	50.1	51.8	68.4	69.0	51.1
MAX							3.9	71	73	86	78	72
MIN							0	17	35	24	51	2.2
AC-FT							19	3,080	3,080	4,200	4,240	3,040
CAL YEAR 2003	MAX	113	MIN	0	AC-FT	17,370						
WTR YEAR 2004	MAX	86	MIN	0	AC-FT	17,670						

# NORTH PLATTE RIVER BASIN

**CODY-DILLON CANAL from North Platte River, 00027000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	2.1	0					0	19	14	6.5	15
2	21	3.7	0					0	21	9.7	5.2	11
3	21	4.7	0					0	22	9.0	8.7	4.0
4	20	5.3	0					0	22	7.8	9.2	2.5
5	20	4.9	0					0	21	6.2	6.5	1.6
6	20	5.7	0					0	22	5.8	1.6	2.4
7	20	5.6	0					0	24	5.6	5.2	2.8
8	20	5.8	0				0	0	20	4.8	8.1	6.1
9	20	5.6	0				0	0	16	4.3	5.7	11
10	21	4.5	0				0	0	20	12	1.7	12
11	21	6.0	0				0	0	20	13	1.2	16
12	21	8.6	0				0	0	15	12	4.4	16
13	21	8.8	0				0	0	14	11	6.6	15
14	21	9.8	0				0	0	14	10	9.7	16
15	21	9.7	0				0	0	10	6.9	11	19
16	22	8.0	0				0	0	10	12	11	21
17	23	7.5	0				0	.06	10	14	11	17
18	23	6.6	0				0	2.7	11	14	13	13
19	20	6.1					0	6.9	12	13	11	15
20	19	5.6					0	6.6	12	16	10	16
21	18	5.3					0	6.4	9.5	24	12	20
22	18	4.5					0	12	10	22	10	19
23	17	3.3					0	21	5.9	15	8.6	14
24	15	3.2					0	19	5.3	13	5.9	12
25	11	0					0	18	9.3	14	13	9.9
26	10	0					0	22	13	15	14	9.6
27	12	0					0	24	14	14	16	8.8
28	15	0					0	21	16	14	17	8.7
29	17	0					0	21	16	15	18	8.7
30	17	0			-----		0	22	15	14	18	9.0
31	12	-----			-----		-----	19	-----	10	15	-----
TOTAL	579	140.9	0				0	221.66	449.0	371.1	294.8	352.1
MEAN	18.7	4.70	0				0	7.15	15.0	12.0	9.51	11.7
MAX	23	9.8	0				0	24	24	24	18	21
MIN	10	0	0				0	0	5.3	4.3	1.2	1.6
AC-FT	1,150	279	0				0	440	891	736	585	698
CAL YEAR 2003	MAX	30	MIN	0	AC-FT	4,640						
WTR YEAR 2004	MAX	24	MIN	0	AC-FT	4,780						

## LINCOLN COUNTY DRAIN NO. 1 at North Platte, 06692500 - 2004

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 132 cubic feet per second July 30, gage height 2.15 feet; minimum daily discharge 8.3 cubic feet per second April 14.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	29	23	20	16	16	12	25	37	41	87	68
2	37	29	23	20	15	15	12	15	33	45	94	76
3	36	29	23	19	15	15	12	16	32	43	95	76
4	35	29	23	19	16	15	12	17	33	49	85	62
5	36	28	22	18E	15	15	12	17	30	66	71	69
6	36	28	22	14E	15	15	12	18	30	60	69	65
7	35	28	23	20E	15E	15	12	17	30	55	70	56
8	35	28	23	19E	15	14	12	17	35	50	66	53
9	34	28	22	18	15	14	12	18	52	45	58	52
10	34	28	22	18	15	14	12	21	52	54	47	57
11	32	28	22	18	15	14	11	26	49	61	55	59
12	33	27	22	18	15E	14	11	18	44	57	61	66
13	34	27	22	18	15E	14	10	23	43	50	76	60
14	33	28	22	19	15	14	8.4	26	41	48	74	58
15	34	27	22	19	15	14	8.3	25	42	34	72	58
16	32	27	21	18	15	14	9.8	21	63	30	77	67
17	32	27	21	18	15	14	9.9	19	55	36	76	69
18	32	27	21	18	16	13	9.5	21	54	36	77	79
19	32	27	21	18	16	13	9.7	23	51	47	66	61
20	31	27	21	18	15	13	16	21	52	50	64	57
21	32	26	21	18	15	13	13	23	59	42	76	55
22	31	26	21	18	16	13	15	23	53	39	81	56
23	32	25	21	18	15	13	17	29	50	43	64	59
24	31	26	20	17	15	13	15	34	49	43	51	55
25	30	26	20	17	15	13	15	36	54	46	65	53
26	30	25	21	16E	15	12	15	37	49	45	86	53
27	30	25	21	16E	15	12	29	32	44	43	75	52
28	29	25	20	16E	15	12	29	31	38	54	85	51
29	28	26	20	16	16	12	25	34	36	71	93	50
30	28	24	20	15E	-----	12	27	35	45	102	88	49
31	29	-----	20	16	-----	12	-----	33	-----	99	81	-----
TOTAL	1,011	810	666	550	441	422	423.6	751	1,335	1,584	2,285	1,801
MEAN	32.6	27.0	21.5	17.7	15.2	13.6	14.1	24.2	44.5	51.1	73.7	60.0
MAX	38	29	23	20	16	16	29	37	63	102	95	79
MIN	28	24	20	14	15	12	8.3	15	30	30	47	49
AC-FT	2,010	1,610	1,320	1,090	875	837	840	1,490	2,650	3,140	4,530	3,570
CAL YEAR 2003	TOTAL	12,861.0	MEAN	35.2	MAX	96	MIN	14	AC-FT	25,510		
WTR YEAR 2004	TOTAL	12,079.6	MEAN	33.0	MAX	102	MIN	8.3	AC-FT	23,960		

E indicates estimated discharge.

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at North Platte, 06693000 - 2004

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

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,250 cubic feet per second July 31, gage height 5.25 feet; minimum daily discharge 103 cubic feet per second May 22.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	288	251	300E	305	260E	410	292	268	139	437	770	195E
2	292	259	297	299	260E	371	294	239	140	536	613	170E
3	286	286	288	292	260E	331	292	189	133	534	513	138
4	264	292	292	280E	260E	338	295	186	128	480	448	132
5	251	292	290	260E	260E	341	286	189	121	427	345	151
6	240	287	292	270E	270E	327	262	184	125	356	267	170
7	231	284	293	270E	280E	315	248	178	144	294	213	158
8	231	279	283	280E	280E	305	233	173	147	249	184	149
9	239	280	278	300E	300E	298	246	167	139	215	172	143
10	245	285	272	340E	310E	297	269	171	156	250	169	150
11	253	285	269	350E	320E	290	291	167	156	377	172	159
12	254	285	277	360E	320E	287	285	152	146	374	169	191
13	254	285	302	340E	330E	301	293	152	133	291	184	190
14	254	285	320	320E	330E	310	287	150	127	228	200	187
15	254	285	310	320E	330E	299	284	153	133	250E	210	236
16	257	283	278	300E	330E	292	278	149	224	300E	209	306
17	265	285	266	305	330E	297	256	143	206	484	208	250
18	266	285	266	318	340E	287	256	133	218	604	204	225
19	266	279	272	320	340E	294	249	126	233	618	190	207
20	266	279	270	321	350E	324	278	116	260	606	167	204
21	260	277	276	317	360E	325	285	106	346	605	158	249
22	260	279	279	312	350E	317	319	103	358	638	159	383
23	260	260E	279	306	340E	315	457	124	304	679	158	471
24	258	240E	273	303	328	313	471	125	288	711	159	420
25	254	220E	266	306	312	312	423	129	287	815	167	361
26	254	260E	266	290E	306	316	356	141	292	859	207	322
27	251	280E	266	280E	315	325	278	146	315	843	252	314
28	248	300E	269	280E	314	318	270	146	407	858	286	304
29	248	310E	278	280E	341	310	262	138	471	927	306	295
30	248	320E	285	270E	-----	309	274	143	434	1,080	304	274
31	248	-----	297	270E	-----	298	-----	136	-----	1,140	260E	-----
TOTAL	7,945	8,377	8,749	9,364	9,026	9,772	8,869	4,822	6,710	17,065	8,023	7,104
MEAN	256	279	282	302	311	315	296	156	224	550	259	237
MAX	292	320	320	360	360	410	471	268	471	1,140	770	471
MIN	231	220	266	260	260	287	233	103	121	215	158	132
AC-FT	15,760	16,620	17,350	18,570	17,900	19,380	17,590	9,560	13,310	33,850	15,910	14,090
CAL YEAR 2003 TOTAL		135,385	MEAN	371	MAX	1,280	MIN	185	AC-FT	268,500		
WTR YEAR 2004 TOTAL		105,826	MEAN	289	MAX	1,140	MIN	103	AC-FT	209,900		

E indicates estimated discharge.

**LOGGEPOLE CREEK above Oliver Reservoir, 00219500 - 2004**

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

GAGE.--Continuous stage recorder

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

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

**DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								2.6	2.7	1.5	1.4 E	.72
2								2.4	2.3	1.4	1.3 E	.65
3								2.4	2.1	1.4	1.3 E	.70
4								2.3	1.8	1.4	1.2 E	.80
5								2.1	1.6	1.4	1.2 E	1.0
6								1.9	1.5	1.3	1.2 E	.95
7								1.7	1.3	1.3	1.1 E	1.0
8								1.6	1.6	1.4	1.1 E	1.1
9								1.5	1.6	1.4	1.1 E	1.1
10								1.4	1.6	1.3	1.0 E	1.1
11								1.3	1.6	1.2	.98E	1.2
12								1.3	1.6	1.1	.95E	1.2
13								1.4	1.5	1.2	.91E	1.3
14								1.4	1.4	1.1	.87E	1.6
15								1.6	1.3	1.1	.83E	1.3
16								1.8	1.1	1.3	.80E	1.3
17								2.0	1.2	1.4	.76E	1.3
18								2.1	1.5	1.4	.72E	1.3
19								2.2	1.4	2.0	.69E	1.3
20								2.2	1.7	2.5	.65	1.3
21								3.0	1.7	2.4	.51	1.3
22								2.8	1.9	2.3	.46	1.2
23								3.0	1.9	2.2E	.40	1.2 E
24								3.1	1.9	2.1E	.30	1.3 E
25								3.3	1.8	2.0E	.34	1.3 E
26								3.6	1.9	1.9E	.45	1.3 E
27								3.7	1.8	1.8E	.62	1.4 E
28								3.5	1.7	1.7E	.70	1.4 E
29								3.3	1.6	1.6E	.79	1.4 E
30					-----			3.2	1.5	1.5E	.85	1.5 E
31		-----			-----		-----	2.9	-----	1.4	.82	-----
TOTAL								72.6	50.1	49.0	26.30	35.52
MEAN								2.34	1.67	1.58	.85	1.18
MAX								3.7	2.7	2.5	1.4	1.6
MIN								1.3	1.1	1.1	.30	.65
AC-FT								144	99	97	52	70
CAL YEAR 2003 MAX		11	MIN	.77	AC-FT	606						
WTR YEAR 2004 MAX		3.7	MIN	.30	AC-FT	463						

E indicates estimated discharge.



**LODGEPOLE CREEK below Oliver Reservoir, 00219000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								.12	.18	.15		
2								.09	.17	.09	0	0
3								.06	.12	.06	0	0
4								.06	.06	.09	0	.07
5								.06	.06	.12	0	.47
6								.06	.06	.12	0	.12
7								.06	.06	.09	0	.09
8								.06	.06	.06	.01	.06
9								.09	.06	.06	.09	.06
10								.12	.12	.06	.12	.06
11								.15	.12	.03	.09	.06
12								.24	.06	0	.03	.06
13								.30	.06	0	.12	.11
14								.22	.06	0	.12	.24
15								.18	.06	0	.06	.21
16								.18	.07	0	0	.15
17								.12	.12	0	0	.09
18								.06	.24	0	0	.06
19								.06	.18	0	0	.12
20								.10	.18	0	0	.15
21								.21	.18	0	0	.06
22								.08	.18	0	0	.06
23								.12	.12	0	0	.06
24								.09	.12	0	0	.06
25								.06	.13	0	0	.06
26								.12	.18	0	0	.06
27								.12	.18	0	0	.06
28								.12	.18	0	0	.06
29								.12	.18	0	0	.06
30					-----			.12	.18	0	0	0
31		-----			-----		-----	.12	-----	0	0	-----
TOTAL								3.67	3.73	0.93	0.64	2.72
MEAN								.12	.12	.030	.021	.094
MAX								.30	.24	.15	.12	.47
MIN								.06	.06	0	0	0
AC-FT								7.3	7.4	1.8	1.3	5.4
CAL YEAR 2003	MAX	.30	MIN	0	AC-FT	23						
WTR YEAR 2004	MAX	.47	MIN	0	AC-FT	23						

# SOUTH PLATTE RIVER BASIN

**LOGEPOLE CREEK at Ralton, 06763500 - 2004**

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

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--no flow in 2004.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	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	0
30	0	0	0	0	-----	0	0	0	0	0	0	0
31	0	-----	0	0	-----	0	-----	0	-----	0	0	-----
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0
CAL YEAR 2003	TOTAL	0.00	MEAN	0	MAX	0	MIN	0	AC-FT	0		
WTR YEAR 2004	TOTAL	0.00	MEAN	0	MAX	0	MIN	0	AC-FT	0		



## WESTERN CANAL from South Platte River, 00147000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	11	0				1.5	33	41	37	15	29
2	56	11	0				8.2	34	41	37	14	30
3	57	12					11	30	39	36	12	30
4	56	11					14	29	36	34	11	31
5	53	7.6					17	25	35	27	12	34
6	51	10					19	25	32	22	28	33
7	47	8.1					17	26	27	18	24	30
8	41	10					20	26	24	14	20	28
9	41	13					23	25	25	12	17	28
10	40	14					26	24	32	20	14	29
11	40	13					24	27	26	25	36	31
12	45	12					26	27	23	21	28	31
13	50	21					24	27	21	19	31	32
14	49	44					24	26	20	21	33	30
15	48	48					31	26	20	20	32	35
16	31	46					31	26	24	18	32	41
17	29	48					32	28	35	18	32	41
18	25	50					34	46	58	17	32	40
19	20	49					31	47	57	12	32	38
20	15	28					35	45	53	11	32	39
21	12	4.6					27	39	55	7.4	32	42E
22	8.9	0				0	31	39	57	6.6	32	44E
23	6.3	0				0	33	44	49	10	32	46E
24	8.3	0				0	35	41	42	17	32	48E
25	7.9	0				0	31	30	51	18	32	50E
26	15	0				0	28	49	57	18	32	52E
27	27	0				0	26	49	53	19	32	54
28	30	0				0	25	45	48	18	32	56
29	24	0				0	28	44	41	17	32	66
30	21	0			-----	0	30	43	38	22	31	47
31	15	-----			-----	0	-----	43	-----	16	29	-----
TOTAL	1,024.4	471.3	0			0	742.7	1,068	1,160	608.0	835	1,165
MEAN	33.0	15.7	0			0	24.8	34.5	38.7	19.6	26.9	38.8
MAX	57	50	0			0	35	49	58	37	36	66
MIN	6.3	0	0			0	1.5	24	20	6.6	11	28
AC-FT	2,030	935	0			0	1,470	2,120	2,300	1,210	1,660	2,310
CAL YEAR 2003	MAX	88	MIN	0	AC-FT	14,440						
WTR YEAR 2004	MAX	66	MIN	0	AC-FT	14,030						

E indicates estimated discharge.

# SOUTH PLATTE RIVER BASIN

## SOUTH PLATTE RIVER at North Platte, 06765500 - 2004

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 367 cubic feet per second June 15, gage height 5.76 feet; minimum daily discharge 63 cubic feet per second September 23.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	80	94E	75	90E	132	95	105	104	151	139	104
2	69	86	94E	76	91	115	94	102	102	151	141	100
3	72	95	94E	72	93	118	92	112	100	147	138	92
4	73	87	94E	63	88	118	91	116	97	143	136	99
5	71	83	94E	64E	90E	117	92	111	94	136	136	104
6	71	83	94E	64E	90E	111	92	107	93	138	141	106
7	70	85	94E	66E	91E	107	92	106	94	137	139	106
8	70	85	94E	70E	90E	106	100	104	96	133	133	101
9	75	90	94E	80E	90E	106	123	96	99	139	121	100
10	74	91	94E	90E	92E	106	116	95	137	150	117	100
11	74	89	94E	94E	95	105	108	97	116	148	121	107
12	71	88	94	98E	96	106	110	94	110	140	123	113
13	71	88	89	100	96E	103	98	91	108	128	119	111
14	72	90	88	102	96E	100	99	93	103	121	116	111
15	71	90	85	99	98E	100	97	99	128	127	115	131
16	72	91	81	101	100	103	96	98	206	126	115	113
17	74	96	81	103	99	107	102	102	159	126	109	110
18	73	94	77	101	110	111	104	106	150	122	104	110
19	73	92E	79	97	110E	114	102	106	137	117	101	102
20	75	92E	79	96	110E	108	127	99	140	112	109	103
21	73	92E	80	96	110E	94	103	96	191	113	100	107
22	73	92E	81	95	108E	94	129	123	168	116	97	144
23	73	92E	78	97	108E	97	145	132	148	116	100	137
24	75	92E	77	96	107	98	138	112	139	117	110	113
25	75	92E	78	96	106	100	137	111	132	115	141	106
26	78	92E	77	78E	107	100	126	126	130	113	128	105
27	82	92E	77	84E	107	99	123	116	135	114	127	103
28	84	94E	74	84E	108	95	120	112	137	141	122	100
29	84	94E	74	82E	124	94	112	112	133	113	112	96
30	78	94E	80	90E	-----	92	106	110	128	185	105	94
31	79	-----	76	98E	-----	92	-----	103	-----	158	99	-----
TOTAL	2,300	2,701	2,639	2,707	2,900	3,248	3,269	3,292	3,814	4,093	3,714	3,228
MEAN	74.2	90.0	85.1	87.3	100	105	109	106	127	132	120	108
MAX	84	96	94	103	124	132	145	132	206	185	141	144
MIN	69	80	74	63	88	92	91	91	93	112	97	92
AC-FT	4,560	5,360	5,230	5,370	5,750	6,440	6,480	6,530	7,570	8,120	7,370	6,400
CAL YEAR 2003	TOTAL	39,574	MEAN	108	MAX	187	MIN	53	AC-FT	78,500		
WTR YEAR 2004	TOTAL	37,905	MEAN	104	MAX	206	MIN	63	AC-FT	75,180		

E indicates estimated discharge.

**TRI-COUNTY CANAL from Platte River, 00142000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305	332	325	364	337	752	353	601	922	2,139	2,234	1,277
2	307	331	328	328	466	723	468	550	812	2,120	2,233	1,150
3	327	327	330	324	414	645	354	663	781	1,881	2,240	1,020
4	325	327	323	299	502	655	335	672	766	1,708	2,234	744
5	322	329	328	332	464	678	350	805	666	1,513	2,164	712
6	323	328	321	334	422	423	364	811	819	1,246	2,050	707
7	326	327	398	326	327	475	361	1,072	695	1,130	1,989	652
8	326	332	435	327	329	544	396	1,113	846	1,099	1,944	528
9	324	329	344	333	460	557	408	1,079	882	1,078	1,863	437
10	330	329	345	338	500	528	384	1,022	1,139	1,190	1,897	452
11	320	328	325	333	572	537	350	1,036	1,013	1,296	1,860	414
12	327	326	376	334	489	454	419	1,032	1,159	1,235	1,873	420
13	324	330	392	398	486	303	512	1,015	1,141	1,146	1,876	414
14	324	323	399	420	337	442	423	998	1,127	1,077	1,907	437
15	322	325	373	483	339	477	448	1,136	1,144	1,141	1,920	500
16	323	328	331	617	524	517	472	1,183	1,776	1,328	1,940	500
17	324	324	349	439	633	518	320	1,150	1,321	1,789	1,794	460
18	323	324	356	382	649	506	321	1,138	1,331	2,047	1,615	334
19	324	327	325	527	770	545	380	1,125	1,304	2,172	1,594	332
20	326	327	341	463	609	377	485	1,155	1,106	2,209	1,606	329
21	326	313	332	468	590	388	454	1,096	1,347	2,221	1,402	326
22	324	326	323	457	412	434	527	992	991	2,224	1,226	592
23	325	279	339	460	532	494	834	1,180	1,029	2,220	1,395	715
24	325	328	322	332	553	492	686	1,077	667	2,216	1,392	603
25	324	334	325	315	555	503	623	1,042	990	2,234	1,497	409
26	328	336	326	330	551	522	687	1,120	1,062	2,242	1,490	341
27	323	335	321	414	558	393	648	1,105	1,179	2,241	1,467	324
28	325	328	320	430	442	429	641	1,090	1,603	2,241	1,555	319
29	324	328	357	408	496	459	600	1,084	1,896	2,237	1,594	328
30	326	330	329	520	-----	420	575	1,047	2,024	2,239	1,401	322
31	328	-----	333	385	-----	431	-----	918	-----	2,231	1,300	-----
TOTAL	10,030	9,790	10,671	12,220	14,318	15,621	14,178	31,107	33,538	55,090	54,552	16,098
MEAN	324	326	344	394	494	504	473	1,003	1,118	1,777	1,760	537
MAX	330	336	435	617	770	752	834	1,183	2,024	2,242	2,240	1,277
MIN	305	279	320	299	327	303	320	550	666	1,077	1,226	319
AC-FT	19,895	19,418	21,166	24,238	28,400	30,984	28,122	61,701	66,523	109,271	108,204	31,930
CAL YEAR 2003	TOTAL	316,089	MEAN	866	MAX	2,280	MIN	279	AC-FT	626,963		
WTR YEAR 2004	TOTAL	277,213	MEAN	757	MAX	2,242	MIN	279	AC-FT	549,852		

## PLATTE RIVER BASIN

## JEFFREY RESERVOIR from Platte River, 00403700 - 2004

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1977 - present

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

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

## DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,842	5,347	5,237	5,457	4,762	3,962	5,072	5,292	5,347	5,237	5,952	4,312
2	5,677	5,842	5,732	5,567	5,072	4,662	5,072	5,127	5,237	5,677	6,062	4,062
3	5,512	5,787	5,677	5,622	5,127	5,292	5,127	4,762	5,072	5,677	6,062	3,724
4	5,402	5,787	5,622	5,402	5,072	5,457	5,127	4,762	5,182	5,622	6,007	3,534
5	5,347	5,732	5,677	5,347	5,402	5,457	5,072	4,962	5,182	5,512	5,952	3,724
6	5,292	5,622	5,457	5,402	5,127	5,182	5,072	5,072	5,237	5,622	5,787	4,162
7	5,127	5,622	5,842	5,622	5,127	4,962	5,127	5,127	4,662	5,677	5,732	4,512
8	5,567	5,677	5,842	5,567	4,962	4,662	5,182	5,127	4,712	5,732	5,787	4,662
9	5,677	5,732	5,677	5,622	4,912	4,962	5,237	5,127	4,862	5,732	5,787	5,017
10	5,567	5,787	5,402	5,732	5,182	5,017	5,237	5,017	5,182	5,842	5,787	5,347
11	5,567	5,677	5,072	5,732	5,292	5,072	5,292	4,962	5,182	6,062	5,787	5,237
12	4,812	5,622	4,962	5,732	5,402	5,127	5,347	5,017	5,347	5,897	5,787	4,912
13	5,347	5,622	4,912	5,677	5,457	5,182	5,567	5,072	5,017	5,897	5,732	4,812
14	5,567	5,622	4,962	5,567	5,457	5,182	5,512	4,962	4,712	5,787	5,787	4,912
15	5,567	5,182	5,017	5,677	5,512	5,127	5,402	5,072	4,712	5,567	5,787	5,457
16	5,567	5,182	4,862	5,842	5,457	5,072	5,347	5,182	5,182	5,237	5,457	5,292
17	5,512	5,402	4,762	5,952	5,567	5,072	5,237	5,347	5,347	5,292	5,127	5,787
18	5,017	5,622	5,017	5,732	5,457	5,072	5,127	5,512	5,512	5,457	4,512	5,732
19	3,914	5,512	5,127	5,622	5,732	5,072	4,912	5,292	5,457	5,567	3,914	5,622
20	4,412	5,237	5,182	5,567	5,677	5,072	5,017	5,402	5,292	5,512	3,629	5,512
21	5,017	5,292	5,347	5,512	5,567	5,127	4,962	5,292	5,677	5,567	4,012	5,457
22	5,072	5,292	5,512	5,512	5,292	4,912	5,127	5,127	5,567	5,567	3,867	5,842
23	4,262	5,127	5,567	5,402	5,072	4,862	5,402	5,292	5,567	5,622	4,212	5,842
24	3,914	4,862	5,567	5,347	5,402	4,762	5,347	5,292	5,402	5,622	4,662	5,567
25	4,662	5,017	5,512	5,237	5,182	4,712	5,457	5,182	5,237	5,677	4,462	5,512
26	5,182	5,292	5,567	4,712	5,237	5,072	5,567	5,237	5,072	5,622	4,412	5,567
27	5,677	5,457	5,457	5,072	4,962	5,182	5,567	5,292	4,962	5,622	4,862	5,622
28	5,402	5,512	5,567	5,347	4,762	5,237	5,347	5,402	5,292	5,622	5,182	5,622
29	4,762	5,512	5,512	5,182	4,662	5,182	5,347	5,402	5,292	5,622	5,292	5,567
30	4,612	5,677	5,457	5,127	-----	5,072	5,292	5,347	5,347	5,732	4,512	5,457
31	4,762	-----	5,457	4,962	-----	5,072	-----	5,402	-----	5,787	4,212	-----
MAX	5,842	5,842	5,842	5,952	5,732	5,457	5,567	5,512	5,677	6,062	6,062	5,842
MIN	3,914	4,862	4,762	4,712	4,662	3,962	4,912	4,762	4,662	5,237	3,629	3,534
CHANGE	-1,135	915	-220	-495	-300	410	220	110	-55.0	440	-1,575	1,245
CAL YEAR 2003			MEAN	5,305	MAX	6,350	MIN	3,250				
WTR YEAR 2004			MEAN	5,272	MAX	6,062	MIN	3,534				

## JEFFREY POWER RETURN to Platte River, 00143000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	259	427	329	643
2	0	0	0	0	0	0	0	0	254	453	576	485
3	0	0	0	0	0	0	0	76.0	261	479	668	63.0
4	0	0	0	0	0	0	0	149	259	527	733	0
5	0	0	0	0	0	0	0	176	264	536	775	0
6	0	0	0	0	0	0	0	174	268	571	786	0
7	0	0	0	0	0	0	0	219	310	654	796	0
8	0	0	0	0	0	0	0	234	341	716	798	0
9	0	0	0	0	0	0	0	235	307	715	805	0
10	0	0	0	0	0	0	0	236	264	655	808	0
11	0	0	0	0	0	0	0	237	265	639	790	0
12	0	0	0	0	0	0	0	237	265	680	787	0
13	0	0	0	0	0	0	5.0	238	265	685	787	0
14	0	0	0	0	0	0	43.0	235	265	722	787	0
15	0	0	0	0	0	0	42.0	237	264	806	782	0
16	0	0	0	0	0	0	42.0	237	152	811	783	0
17	0	0	0	0	0	0	43.0	235	152	811	784	0
18	0	0	0	0	0	0	40.0	233	154	840	784	0
19	0	0	0	0	0	0	47.0	233	149	863	784	0
20	0	0	0	0	0	0	21.0	233	149	850	799	0
21	0	0	0	0	0	0	0	234	104	805	850	0
22	0	0	0	0	0	0	0	246	80.0	767	860	0
23	0	0	0	0	0	0	0	264	166	692	886	0
24	0	0	0	0	0	0	0	269	200	626	874	0
25	0	0	0	0	0	0	0	269	211	545	797	0
26	0	0	0	0	0	0	0	265	227	466	757	0
27	0	0	0	0	0	0	0	268	256	485	765	0
28	0	0	0	0	0	0	0	268	300	469	769	0
29	0	0	0	0	0	0	0	268	368	415	762	0
30	0	0	0	0	-----	0	0	263	412	317	675	0
31	0	-----	0	0	-----	0	-----	263	-----	156	652	-----
TOTAL	0	0	0	0	0	0	283.0	6,731.0	7,191.0	19,183	23,588	1,191.0
MEAN	0	0	0	0	0	0	9.4	217	240	619	761	39.7
MAX	0	0	0	0	0	0	47.0	269	412	863	886	643
MIN	0	0	0	0	0	0	0	0	80.0	156	329	0
AC-FT	0	0	0	0	0	0	561	13,351	14,263	38,049	46,787	2,362
CAL YEAR 2003	TOTAL	50,747.0	MEAN	139	MAX	929	MIN	0	AC-FT	100,657		
WTR YEAR 2004	TOTAL	58,167.0	MEAN	159	MAX	886	MIN	0	AC-FT	115,374		

## PLATTE RIVER BASIN

## ELWOOD RESERVOIR from Platte River, 00403300 - 2004

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1978 - present

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

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

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

## DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18,017	16,677	15,530	14,815	13,935	13,145	17,445	28,697	36,228	35,130	25,385	11,375
2	18,017	16,677	15,464	14,815	13,811	13,085	17,872	28,985	36,228	35,021	25,297	11,321
3	17,944	16,677	15,464	14,815	13,749	13,205	18,305	29,273	36,228	35,021	25,120	11,321
4	17,944	16,609	15,464	14,751	13,687	13,386	18,672	29,663	36,228	34,913	24,768	11,267
5	17,872	16,540	15,399	14,624	13,687	13,567	19,115	29,859	36,228	34,805	24,423	11,267
6	17,872	16,540	15,399	14,560	13,627	13,687	19,568	30,153	36,228	34,696	23,906	11,214
7	17,800	16,471	15,334	14,497	13,567	13,873	20,024	30,349	36,117	34,587	23,400	11,214
8	17,728	16,471	15,334	14,433	13,506	13,997	20,410	30,549	36,228	34,587	22,981	11,160
9	17,656	16,402	15,269	14,370	13,506	14,182	20,879	30,649	36,117	34,587	22,403	11,160
10	17,656	16,402	15,269	14,370	13,506	14,306	21,273	31,050	36,339	34,479	21,996	11,106
11	17,656	16,334	15,203	14,370	13,446	14,497	21,673	31,350	36,339	34,479	21,592	11,052
12	17,586	16,265	15,203	14,370	13,446	14,624	22,077	31,657	36,339	34,266	21,037	11,052
13	17,586	16,265	15,203	14,370	13,386	14,815	22,403	31,963	36,339	34,160	20,565	10,998
14	17,515	16,198	15,138	14,306	13,386	14,878	22,733	32,168	36,228	34,053	20,102	10,998
15	17,445	16,198	15,073	14,306	13,386	15,007	23,232	32,476	36,228	33,947	19,568	10,998
16	17,374	16,131	15,007	14,306	13,326	15,138	23,569	32,789	36,007	33,734	19,041	10,998
17	17,374	16,131	15,007	14,306	13,326	15,269	23,906	32,998	35,896	33,311	18,451	10,945
18	17,374	16,064	15,007	14,306	13,266	15,464	24,337	33,206	35,785	33,102	17,800	10,945
19	17,304	15,997	14,942	14,244	13,266	15,530	24,596	33,521	35,785	32,685	17,022	10,837
20	17,234	15,997	14,878	14,182	13,266	15,729	25,032	33,734	35,785	31,963	16,265	10,837
21	17,234	15,930	14,878	14,182	13,266	15,863	25,385	34,053	35,896	31,250	15,464	10,837
22	17,163	15,930	14,878	14,120	13,266	15,997	25,739	34,266	35,896	30,549	14,751	10,891
23	17,093	15,863	14,815	14,120	13,266	16,131	26,009	34,479	35,896	29,859	13,873	10,891
24	17,093	15,863	14,815	14,120	13,266	16,265	26,369	34,805	35,785	29,273	13,506	10,837
25	17,022	15,796	14,815	14,058	13,266	16,402	26,641	34,913	35,675	28,505	13,446	10,837
26	16,952	15,729	14,815	14,058	13,266	16,540	27,101	35,239	35,675	27,845	13,026	10,837
27	16,952	15,729	14,815	14,058	13,266	16,746	27,377	35,455	35,455	27,193	12,675	10,837
28	16,883	15,662	14,815	14,058	13,266	16,883	27,751	35,675	35,347	26,549	12,271	10,837
29	16,815	15,662	14,815	14,058	13,266	17,022	28,127	35,896	35,347	26,099	11,874	10,785
30	16,815	15,595	14,815	14,058	-----	17,093	28,409	36,117	35,239	25,919	11,430	10,785
31	16,746	-----	14,815	14,058	-----	17,234	-----	36,228	-----	25,561	11,375	-----
MAX	18,017	16,677	15,530	14,815	13,935	17,234	28,409	36,228	36,339	35,130	25,385	11,375
MIN	16,746	15,595	14,815	14,058	13,266	13,085	17,445	28,697	35,239	25,561	11,375	10,785
CHANGE	-1,343	-1,151	-780	-757	-792	3,968	11,175	7,819	-989	-9,678	-14,186	-590
CAL YEAR 2003			MEAN	12,482	MAX	25,100	MIN	458				
WTR YEAR 2004			MEAN	20,437	MAX	36,339	MIN	10,785				

## JOHNSON RESERVOIR from Platte River, 00403800 - 2004

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1977 - present

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

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

## DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29,385	41,230	39,115	38,880	40,995	39,115	40,290	39,820	40,995	40,525	42,685	21,040
2	29,785	41,230	38,645	38,410	41,230	39,115	40,290	39,115	40,995	41,230	42,685	21,710
3	30,185	41,700	38,645	39,115	40,525	38,410	40,055	39,585	41,465	42,435	42,685	22,410
4	30,585	41,935	37,940	39,585	40,290	37,940	40,055	39,350	41,230	42,935	42,685	22,410
5	31,195	42,435	37,705	39,115	40,055	38,175	39,820	38,645	40,995	43,935	41,700	22,235
6	31,400	42,935	38,175	38,880	39,820	39,115	39,820	38,175	40,760	44,435	42,185	22,060
7	32,220	43,685	38,645	38,880	39,585	39,820	39,820	37,470	40,055	43,935	41,465	21,885
8	32,425	43,935	37,470	38,410	40,290	40,055	39,820	36,795	39,585	44,935	40,290	21,710
9	32,220	43,935	37,470	38,175	39,820	38,645	39,820	37,705	38,880	43,185	39,115	21,535
10	32,220	43,935	36,795	38,410	39,820	38,645	39,820	37,235	38,175	43,435	37,470	21,205
11	32,835	44,685	36,355	38,880	39,585	37,470	39,585	37,470	38,645	42,935	36,575	21,205
12	33,715	43,685	37,015	38,410	39,350	37,470	40,290	37,235	38,410	43,185	35,915	21,040
13	34,815	42,685	37,705	38,410	39,115	37,705	40,055	37,470	38,410	42,935	34,815	21,040
14	35,035	41,935	38,410	39,350	38,880	37,940	40,760	37,235	38,410	41,700	33,715	21,205
15	35,255	40,995	38,645	39,585	39,585	37,235	40,760	37,015	39,585	40,525	33,495	21,885
16	35,035	41,700	39,115	39,115	39,115	37,235	39,820	37,940	39,115	40,055	33,495	21,885
17	35,475	41,230	39,585	39,820	38,880	37,705	40,290	38,175	39,350	38,645	33,715	22,060
18	36,135	40,995	39,585	40,525	39,115	38,175	40,290	37,705	40,290	37,470	33,275	22,235
19	37,235	40,995	39,115	40,525	39,115	38,175	39,585	38,645	41,230	36,575	32,630	22,410
20	38,175	40,055	39,585	40,995	39,115	38,175	39,820	39,585	42,185	36,355	32,015	22,935
21	38,880	39,350	40,055	40,525	38,410	38,645	38,645	39,350	41,935	37,015	30,990	23,460
22	39,350	40,760	40,290	40,995	39,820	39,115	38,645	40,055	41,700	36,135	29,385	24,510
23	39,585	40,290	38,880	41,230	40,760	39,585	38,645	40,290	41,700	37,015	28,215	25,590
24	39,820	39,820	38,410	41,230	41,230	39,115	39,350	40,525	41,230	36,355	26,515	26,700
25	39,820	39,350	38,880	42,185	41,230	40,055	39,585	40,525	41,230	36,795	24,685	27,455
26	39,820	39,350	38,645	41,700	40,525	39,820	39,115	40,995	40,525	37,470	23,810	28,215
27	39,820	40,055	38,645	41,465	39,820	40,290	39,820	40,760	40,525	37,705	20,710	28,985
28	39,820	39,820	39,350	40,995	39,350	40,525	39,585	40,760	39,820	39,115	18,565	29,785
29	39,820	39,115	38,410	40,290	39,820	40,995	39,820	41,230	39,350	39,585	17,615	29,985
30	40,525	39,585	39,350	39,820	-----	41,230	39,585	41,465	40,290	40,760	18,235	30,585
31	40,760	-----	38,880	40,055	-----	40,290	-----	41,700	-----	42,185	19,720	-----
MAX	40,760	44,685	40,290	42,185	41,230	41,230	40,760	41,700	42,185	44,935	42,685	30,585
MIN	29,385	39,115	36,355	38,175	38,410	37,235	38,645	36,795	38,175	36,135	17,615	21,040
CHANGE	11,375	-1,175	-705	1,175	-235	470	-705	2,115	-1,410	1,895	-22,465	10,865
CAL YEAR 2003			MEAN	38,623	MAX	44,685	MIN	26,100				
WTR YEAR 2004			MEAN	37,492	MAX	44,935	MIN	17,615				

# PLATTE RIVER BASIN

## PHELPS COUNTY CANAL from Platte River via Tri-County Canal, 00122000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	190	228	634	628	235
2	0	0	0	0	0	0	18.0	216	235	553	668	0
3	0	0	0	0	0	0	21.0	255	263	518	795	0
4	0	0	0	0	0	0	21.0	264	194	492	815	0
5	0	0	0	0	0	0	22.0	227	248	206	841	0
6	0	0	0	0	0	0	43.0	257	248	166	852	0
7	0	0	0	0	0	0	33.0	281	235	255	844	0
8	0	0	0	0	0	0	24.0	284	288	202	842	0
9	0	0	0	0	0	0	0	271	282	247	830	0
10	0	0	0	0	0	0	0	215	283	246	854	0
11	0	0	0	0	0	0	2.0	241	314	204	799	0
12	0	0	0	0	0	0	22.0	238	399	267	755	0
13	0	0	0	0	0	0	22.0	244	350	380	743	0
14	0	0	0	0	0	0	26.0	256	332	401	713	0
15	0	0	0	0	0	0	91.0	219	358	448	700	0
16	0	0	0	0	0	0	102	237	352	579	573	0
17	0	0	0	0	0	0	104	231	326	636	598	0
18	0	0	0	0	0	0	95.0	237	296	661	584	0
19	0	0	0	0	0	0	121	243	290	661	705	0
20	0	0	0	0	0	0	205	215	262	750	716	0
21	0	0	0	0	0	0	214	218	324	813	767	0
22	0	0	0	0	0	0	171	208	315	834	731	0
23	0	0	0	0	0	0	158	231	393	884	803	0
24	0	0	0	0	0	0	123	211	471	854	774	0
25	0	0	0	0	0	0	152	269	572	817	850	0
26	0	0	0	0	0	0	162	201	631	802	727	0
27	0	0	0	0	0	0	151	189	612	791	813	0
28	0	0	0	0	0	0	191	229	625	747	748	0
29	0	0	0	0	0	0	186	184	648	703	731	0
30	0	0	0	0	-----	0	186	201	681	612	672	0
31	0	-----	0	0	-----	0	-----	187	-----	616	528	-----
TOTAL	0	0	0	0	0	0	2,666.0	7,149	11,055	16,979	22,999	235
MEAN	0	0	0	0	0	0	88.9	231	369	548	742	7.8
MAX	0	0	0	0	0	0	214	284	681	884	854	235
MIN	0	0	0	0	0	0	0	184	194	166	528	0
AC-FT	0	0	0	0	0	0	5,288	14,180	21,928	33,678	45,619	466
CAL YEAR 2003	MAX	982	MIN	0	AC-FT	131,685						
WTR YEAR 2004	MAX	884	MIN	0	AC-FT	121,158						



## JOHNSON POWER RETURN to Platte River, 00144000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	433	0	0	750	0	0	0	0	0	0
2	0	0	435	460	436	478	0	0	0	0	0	0
3	0	0	418	0	459	0	0	0	0	0	0	0
4	0	0	449	0	449	488	0	0	0	0	0	0
5	0	0	440	341	415	497	0	0	0	0	0	0
6	0	0	0	275	440	0	0	0	0	0	0	0
7	0	0	0	320	437	0	0	0	0	0	0	0
8	0	0	462	301	0	485	0	0	0	0	0	0
9	0	0	463	363	437	486	0	0	0	0	0	0
10	0	0	413	0	413	481	0	0	0	0	0	0
11	0	0	460	0	443	517	0	0	0	0	0	0
12	0	355	0	459	441	620	0	0	0	0	0	0
13	0	775	0	436	445	0	0	0	0	0	0	0
14	0	751	0	0	448	0	0	0	0	0	0	0
15	0	721	364	407	0	507	0	0	0	0	0	0
16	0	0	0	445	470	534	0	0	0	0	0	0
17	0	416	0	0	450	0	0	0	0	0	0	0
18	0	289	435	0	421	0	0	0	0	0	0	0
19	0	218	438	443	497	484	0	0	0	0	0	0
20	0	440	0	431	435	0	0	0	0	0	0	0
21	0	409	0	460	813	0	0	0	0	0	0	0
22	0	0	444	425	0	0	0	0	0	0	0	0
23	0	451	441	446	0	0	0	0	0	0	0	0
24	0	440	437	451	411	480	0	0	0	0	0	0
25	0	463	0	0	907	0	0	0	0	0	0	0
26	0	466	436	446	467	289	0	0	0	0	0	0
27	0	0	146	435	609	0	0	0	0	0	0	0
28	0	413	0	460	613	0	0	0	0	0	0	0
29	0	476	443	453	521	0	0	0	0	0	0	0
30	0	0	430	484	-----	0	0	0	0	0	0	0
31	0	-----	448	412	-----	295	-----	0	-----	0	0	-----
TOTAL	0	7,083	8,435	9,153	11,877	7,391	0	0	0	0	0	0
MEAN	0	236	272	295	410	238	0	0	0	0	0	0
MAX	0	775	463	484	907	750	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	14,049	16,731	18,155	23,558	14,660	0	0	0	0	0	0
CAL YEAR 2003	TOTAL	65,930	MEAN	181	MAX	980	MIN	0	AC-FT	130,772		
WTR YEAR 2004	TOTAL	43,939	MEAN	120	MAX	907	MIN	0	AC-FT	87,153		

# PLATTE RIVER BASIN

## PLATTE RIVER near Maxwell, 00228500 - 2004

LOCATION.--SW1/4SW1/4 Sec. 28-13-28 W. at Maxwell, Lincoln County, Lat. 41° 03' 42", Long. 100° 31' 30", on right bank 20 feet upstream of the Nebraska Highway 330 bridge over the Platte River 1 mile south of Maxwell, Nebraska.

DRAINAGE AREA.--Not determined.

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

PERIOD OF RECORD.--2000 to 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 1,050 cubic feet per second July 31, gage height 5.98 feet, minimum daily discharge 25 cubic feet per second July 19.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	40	41	48E	48E	91	52	50	38	49	604	32
2	34	42	41	49	49E	84	53	49	37	71	403	29
3	36	52	42	40E	50E	89	52	48	36	51	296	30
4	35	46	42	30E	52E	81	50	49	34	51	201	29
5	35	43	35E	35E	52E	79	52	50	33	49	90	36
6	36	43	42E	42E	50E	78	52	46	30	45	67	32
7	36	42	53	44E	46E	73	53	43	27	41	60	30
8	36	42	49	48E	44E	66	51	40	28	38	54	30
9	37	43	50	50E	42E	60	62	40	32	44	49	32
10	36	45	48	52E	38E	59	62	39	55	48	46	35
11	43	44	47	54E	38E	56	62	36	40	47	44	35
12	36	44	45E	56E	40E	55	62	36	37	46	42	36
13	36	41	45E	58E	42E	53	61	42	38	40	41	35
14	35	43	46E	62E	46E	51	64	39	35	36	42	35
15	34	43	48E	60E	50E	54	65	44	45	33	42	43
16	35	42	47E	55	54E	52	60	45	137	29	41	39
17	36	44	48E	63	60E	53	54	43	82	28	40	39
18	37	44	48E	62	70E	54	53	43	80	28	40	40
19	36	44	47E	60	76E	53	55	43	77	25	40	38
20	36	44	46E	62	85	52	57	40	67	34	40	37
21	37	42	46	57	78	49	51	39	70	86	38	39
22	37	42	45	53	69	47	63	50	64	146	37	56
23	40	30E	44	53	60	50	61	70E	57	254	38	50
24	39	35E	44	51	57	53	69	64E	52	306	38	48
25	37	40E	43	53	55	55	78	60E	46	431	48	47
26	37	42E	44	35E	54	54	80	50E	47	465	39	46
27	39	43E	42	40E	52	57	72	45E	46	451	31	46
28	40	44E	40E	42E	53	55	62	42E	47	504	30	44
29	39	44	42E	45E	71	54	56	41	50	546	31	45
30	41	42	44E	46E	-----	52	51	43	49	776	34	46
31	40	-----	46E	47E	-----	51	-----	42	-----	978	33	-----
TOTAL	1,147	1,275	1,390	1,552	1,581	1,870	1,775	1,411	1,516	5,776	2,679	1,159
MEAN	37.0	42.5	44.8	50.1	54.5	60.3	59.2	45.5	50.5	186	86.4	38.6
MAX	43	52	53	63	85	91	80	70	137	978	604	56
MIN	34	30	35	30	38	47	50	36	27	25	30	29
AC-FT	2,280	2,530	2,760	3,080	3,140	3,710	3,520	2,800	3,010	11,460	5,310	2,300
CAL YEAR 2003 TOTAL		37,681	MEAN	103	MAX	773	MIN	27	AC-FT	74,740		
WTR YEAR 2004 TOTAL		23,131	MEAN	63.2	MAX	978	MIN	25	AC-FT	45,880		

E indicates estimated discharge.

**PLATTE RIVER at Brady, 06766000 - 2004**

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 1,110 cubic feet per second July 31, combined channel flow; minimum daily discharge 30 cubic feet per second on October 4 & 5, combined channel flow.

**DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	59	79	78	75E	161	92	105E	71	91	846	52
2	31	64	76	91	78E	147	91	98E	68	109	494	46
3	31	76	76	70E	80E	150	90	96E	64	111	355	41
4	30	74	73	43E	83E	140	89	94	60	110	252	38
5	30	68	58	54E	85E	137	92	92	58	116	174	49
6	32	66	65	60E	87E	131	92	85	55	104	124	52
7	33	65	92	66E	86E	125	93	78	50	95	111	45
8	35	63	96	77E	88E	121	91	76	45	88	100	41
9	37	66	86	79E	86E	117	100	71	46	119	89	36
10	38	69	77	87E	95E	112	107	69	83	131	85	36
11	58	68	65	94E	95E	105	104	68	88	136	86	36
12	48	66	64	99	99E	103	110	61	70	125	80	40
13	46	65	83	99	102E	106	108	64	62	111	76	37
14	47	68	89	101	108	100	109	64	55	96	76	42
15	46	67	88	98	109	100	110	70	51	89	76	66
16	46	67	66	99	114	98	107	70	244	84	72	59
17	50	69	84	102	117	100	101	69	252	80	69	53
18	52	67E	87	95	134	99	96	69	215	75	64	54
19	54	65E	81	83	160	101	94	69	192	69	63	49
20	56	62E	90	86	154	98	119	68	176	63	63	47
21	55	60E	91	92	149	93	122	64	189	98	59	49
22	56	57	82	88E	148	95	130	76	188	143	70	92
23	58	40E	75	85E	130	99	139	147	171	242	70	103
24	59	46E	74	82	121	97	144	115	148	366	90	88
25	55	64	77	69E	114	102	149	94	127	479	105	82
26	55	74	75	52E	110	101	140	102	115	612	92	77
27	61	70	79	57E	113	108	127	98	112	609	76	71
28	62	68	66	62E	114	103	120	90	106	629	69	66
29	63	86	63	68E	131	98	111E	81	98	686	65	65
30	61	84	73	74E	-----	93	110E	79	89	816	62	68
31	61	-----	77	74E	-----	91	-----	76	-----	1,070	57	-----
TOTAL	1,478	1,983	2,407	2,464	3,165	3,431	3,287	2,558	3,348	7,752	4,170	1,680
MEAN	47.7	66.1	77.6	79.5	109	111	110	82.5	112	250	135	56.0
MAX	63	86	96	102	160	161	149	147	252	1,070	846	103
MIN	30	40	58	43	75	91	89	61	45	63	57	36
AC-FT	2,930	3,930	4,770	4,890	6,280	6,810	6,520	5,070	6,640	15,380	8,270	3,330
CAL YEAR 2003 TOTAL		47,494	MEAN	130	MAX	704	MIN	14	AC-FT	94,200		
WTR YEAR 2004 TOTAL		37,723	MEAN	103	MAX	1,070	MIN	30	AC-FT	74,820		

E indicates estimated discharge.

# PLATTE RIVER BASIN

**THIRTY MILE CANAL from Platte River, 00141000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	75	101	131	0
2							0	0	75	116	132	0
3							0	0	76	123	133	0
4							0	0	75	122	135	0
5							0	0	76	123	136	0
6							0	0	76	123	136	0
7							0	48	76	130	137	0
8							0	71	76	132	135	0
9							0	70	52	131	135	0
10							0	71	0	131	135	0
11							0	71	0	132	134	0
12							0	71	0	132	134	0
13							0	72	0	130	134	0
14							0	72	0	131	135	0
15							0	71	0	130	134	0
16							0	71	0	129	135	0
17							0	71	0	130	135	0
18							0	70	0	131	132	0
19							0	69	0	131	131	0
20							0	67	0	132	131	0
21							0	70	39	132	131	0
22							0	71	76	132	131	0
23							0	70	74	132	131	0
24							0	70	74	132	132	0
25							0	73	74	130	133	0
26							0	75	75	131	131	0
27							0	75	76	131	131	0
28							0	75	88	131	132	0
29						0	0	75	99	131	132	0
30					-----	0	0	76	99	131	44	0
31		-----			-----	0	-----	76	-----	131	0	-----
TOTAL						0	0	1,771	1,431	3,984	3,908	0
MEAN						0	0	57.1	47.7	129	126	0
MAX						0	0	76	99	132	137	0
MIN						0	0	0	0	101	0	0
AC-FT						0	0	3,510	2,840	7,900	7,750	0
CAL YEAR 2003	MAX	166	MIN	0	AC-FT	25,000						
WTR YEAR 2004	MAX	137	MIN	0	AC-FT	22,000						

**GOTHENBURG CANAL from Platte River, 00057000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	81	105	125	295	263
2							0	81	91	126	292	257
3							0	82	92	127	293	90
4							0	82	93	164	296	9.5
5							0	82	94	181	300	7.6
6							0	81	94	200	301	6.3
7							0	82	95	247	300	0
8							0	82	100	288	299	0
9							0	82	101	297	302	0
10							0	82	104	295	301	0
11							0	82	126	295	299	0
12							0	89	126	297	299	0
13							15	106	125	296	298	0
14							105	106	125	299	299	0
15							79	107	125	298	297	
16							80	108	127	294	300	
17							80	108	125	297	300	
18							79	108	125	297	299	
19						0	79	108	125	295	299	
20						0	90	108	125	297	300	
21						0	79	108	127	296	299	
22						0	81	109	126	297	301	
23						0	81	106	125	293	298	
24						0	82	107	124	299	302	
25						0	82	108	125	296	290	
26						0	81	109	126	295	272	
27						0	80	109	127	295	269	
28						0	81	109	125	295	265	
29						0	82	110	125	295	265	
30					-----	0	81	112	125	297	265	
31		-----			-----	0	-----	112	-----	296	266	-----
TOTAL						0	1,417	3,046	3,478	8,269	9,061	633.4
MEAN						0	47.2	98.3	116	267	292	45.2
MAX						0	105	112	127	299	302	263
MIN						0	0	81	91	125	265	0
AC-FT						0	2,810	6,040	6,900	16,400	17,970	1,260
CAL YEAR 2003	MAX	330	MIN	0	AC-FT	51,380						
WTR YEAR 2004	MAX	302	MIN	0	AC-FT	51,380						

# PLATTE RIVER BASIN

**BUFFALO CREEK (B-1) RESERVOIR SUPPLY CANAL from Platte River, 00019500 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	18.0E	24.4	15.9		.6
2							0	17.0E	26.5	21.5		.6
3							0	16.0E	15.7	20.6		.6
4							0	16.0E	15.6	15.7		.6
5							0	15.9	15.7	16.5		.6
6							0	13.8	15.4	7.0		.6
7							0	11.1	9.8	4.2		.6
8							0	10.9	4.1	4.2		.6
9							0	10.7	4.7	4.1		1.4
10							0	10.1	7.2	4.0		.6
11							0	10.1	9.7	3.8		1.1
12							0	11.8	14.9	3.7		1.5
13							0	14.1	18.1	2.2		.7
14							0	22.4	20.6	2.2		0
15							0	23.3	18.9	2.3		0
16							0	22.7	23.1	1.3		0
17							0	29.1	15.1	2.0		0
18						0	0	28.3	23.5	1.3		
19						0	0	27.3	24.9	1.0		
20						0	0	27.6	27.5	1.1		
21						0	0	25.4	27.9	1.0		
22						0	0	26.4	19.2	1.0		
23						0	0	25.1	20.3	.8		
24						0	0	26.5	18.3	.8		
25						0	0	28.1	18.0	.8		
26						0	0	27.2	21.5	.8		
27						0	15.3	23.8	24.8	.7		
28						0	24.8	23.3	22.5	.6		
29						0	20.0	20.9	19.9	.8		
30					-----	0	19.0E	24.4	18.3	1.6		
31		-----			-----	0	-----	22.8	-----	1.2		-----
TOTAL						0	79.1	630.1	546.1	144.7	10.1	
MEAN						0	2.6	20.3	18.2	4.7	.6	
MAX						0	24.8	29.1	27.9	21.5	1.5	
MIN						0	0	10.1	4.1	.6	0	
AC-FT						0	157	1,250	1,083	287	20.0	
CAL YEAR 2003	MAX	0	MIN	0	AC-FT	0						
WTR YEAR 2004	MAX	29.1	MIN	0	AC-FT	2,797						

E indicates estimated discharge.

## SIX MILE CANAL from Platte River, 00134000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	0	11	8.1	20
2							0	0	0	11	15	20
3							0	0	0	11	17	14
4							0	0	0	11	18	8.9
5							0	0	0	11	18	8.5
6							0	0	0	11	18	8.5
7							0	0	4.8	11	15	13
8							0	4.1	8.6	11	9.3	13
9							0	8.1	9.2	11	6.3	12
10							0	13	9.9	12	11	9.8
11							0	13	10	11	12	7.3
12							0	12	10	12	12	7.6
13							0	13	10	12	15	7.7
14							0	12	10	12	15	7.8
15							0	12	10	12	15	8.5
16							0	12	10	12	17	6.8
17							0	12	11	12	13	0
18							0	12	11	12	9.8	
19							0	12	11	12	9.8	
20							0	11	11	12	11	
21							0	11	11	13	9.4	
22							0	4.4	9.8	13	6.1	
23							0	0	9.7	13	13	
24							0	0	10	14	13	
25							0	0	10	15	6.7	
26							0	0	10	16	4.6	
27							0	0	10	18	4.4	
28							0	0	11	19	4.4	
29						0	0	0	11	19	6.9	
30					-----	0	0	0	11	15	15	
31		-----			-----	0	-----	0	-----	6.1	19	-----
TOTAL						0	0	161.6	240.0	391.1	367.8	173.4
MEAN						0	0	5.21	8.00	12.6	11.9	10.2
MAX						0	0	13	11	19	19	20
MIN						0	0	0	0	6.1	4.4	0
AC-FT						0	0	321	476	776	730	344
CAL YEAR 2003	MAX	15	MIN	0	AC-FT	2,010						
WTR YEAR 2004	MAX	20	MIN	0	AC-FT	2,650						

# PLATTE RIVER BASIN

**COZAD CANAL from Platte River, 00033000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	15	61	13	87	84
2							0	19	62	0	87	48
3							0	18	62	0	87	0
4							0	50	63	0	87	0
5							0	64	63	0	87	0
6							0	63	64	0	87	0
7							0	63	65	0	87	0
8							0	63	65	0	88	
9							0	63	55	0	89	
10							0	63	42	0	89	
11							0	63	41	0	88	
12							0	62	42	0	89	
13							0	61	42	0	89	
14							0	63	42	0	89	
15							0	63	42	41	89	
16							0	63	43	59	89	
17							0	63	43	59	89	
18							0	62	43	75	90	
19							0	62	43	85	90	
20							0	62	43	89	90	
21							0	62	44	91	90	
22							0	57	44	91	90	
23							0	63	44	90	89	
24							0	63	44	91	88	
25							0	63	43	91	88	
26							0	63	44	90	85	
27							0	63	43	88	83	
28							0	64	44	88	83	
29							0	64	44	88	83	
30					-----	0	0	64	44	88	83	
31		-----			-----	00	-----	61	-----	88	84	-----
TOTAL						0	0	1,792	1,464	1,405	2,713	132
MEAN						0	0	57.8	48.8	45.3	87.5	18.9
MAX						0	0	64	65	91	90	84
MIN						0	0	15	41	0	83	0
AC-FT						0	0	3,550	2,900	2,790	5,380	262
CAL YEAR 2003	MAX	236	MIN	0	AC-FT	23,640						
WTR YEAR 2004	MAX	91	MIN	0	AC-FT	14,890						



**ORCHARD ALFALFA CANAL from Platte River, 00117000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	14	20	32	11
2							0	0	14	19	32	0
3							0	0	15	21	31	0
4							0	0	15	21	31	0
5							0	0	15	22	32	0
6							0	0	15	23	33	0
7							0	0	15	25	33	0
8							0	0	17	28	33	
9							0	0	18	34	33	
10							0	0	17	32	32	
11							0	0	21	29	32	
12							0	0	21	29	32	
13							0	0	18	29	30	
14							0	0	16	30	30	
15							0	0	20	30	30	
16							0	0	23	28	30	
17							0	0	21	29	31	
18							0	0	22	28	31	
19							0	0	15	29	32	
20							0	0	6.1	29	31	
21							0	0	5.4	30	31	
22							0	0	5.0	30	32	
23							0	0	6.1	30	33	
24							0	0	6.9	30	33	
25							0	0	7.1	30	31	
26							0	4.9	7.6	28	30	
27							0	6.1	8.4	28	30	
28							0	9.5	7.6	29	30	
29							0	14	8.7	29	30	
30					-----	0	0	16	12	30	31	
31		-----			-----	0	-----	15	-----	31	30	-----
TOTAL						0	0	65.5	412.9	860	972	11
MEAN						0	0	2.11	13.8	27.7	31.4	1.57
MAX						0	0	16	23	34	33	11
MIN						0	0	0	5.0	19	30	0
AC-FT						0	0	130	819	1,710	1,930	22
CAL YEAR 2003	MAX	39	MIN	0	AC-FT	5,780						
WTR YEAR 2004	MAX	34	MIN	0	AC-FT	4,600						

# PLATTE RIVER BASIN

**DAWSON COUNTY CANAL from Platte River, 00037000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	128	281	412	357
2							0	2.7	120	314	413	358
3							0	46	118	330	418	159
4							0	76	113	352	418	135
5							0	98	106	374	418	129
6							0	121	106	383	420	124
7							0	103	102	360	420	116
8							0	83	116	369	418	107
9							0	84	131	401	418	102
10							0	83	142	402	418	89
11							0	83	156	401	417	84
12							0	83	156	402	418	81
13							0	83	153	402	418	33
14							0	83	153	386	418	0
15							0	83	153	381	418	
16							0	83	157	401	418	
17							0	92	160	401	418	
18							0	96	159	398	418	
19							0	105	159	406	411	
20							0	106	159	407	407	
21							0	105	159	411	406	
22							0	102	149	413	402	
23							0	115	116	413	415	
24							0	134	124	389	416	
25							0	134	145	394	415	
26							0	134	152	383	416	
27							0	132	161	400	399	
28							0	133	186	411	391	
29							0	127	194	409	389	
30					-----		0	129	238	413	388	
31		-----			-----		-----	130	-----	413	367	-----
TOTAL							0	2,968.7	4,371	12,000	12,738	1,874
MEAN							0	95.8	146	387	411	134
MAX							0	134	238	413	420	358
MIN							0	0	102	281	367	0
AC-FT							0	5,890	8,670	23,800	25,270	3,720
CAL YEAR 2003	MAX	445	MIN	0	AC-FT	67,980						
WTR YEAR 2004	MAX	420	MIN	0	AC-FT	67,340						

**PLATTE RIVER near Cozad, 06766500 - 2004**

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 541 cubic feet per second September 3, combined channel flow; minimum daily discharge 6.0 cubic feet per second June 6, combined channel flow.

**DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	94	133	135E	135E	231	160	45	9.5	22	148	46
2	77	95	120	135E	135E	221	155	54	9.5	28	133	45
3	74	124	118	135E	140E	231	159	13	9.4	16	101	169
4	73	116	123	130E	140E	228	166	17	11	26	84	38
5	69	109	110	125E	135E	225	166	32E	6.4	36	132	18
6	68	105	102	125E	130E	218	165	29E	6.0	23	111	13
7	63	103	124	130E	130E	206	159	51	8.2	14	106	11
8	74	103	148	130E	135E	198	157	67	9.3	14	102	9.9
9	78	106	142	131	140E	186	140	44	9.3E	54	74	9.1
10	77	111	129	127	171	188	110	36E	10 E	73	79	8.4
11	91	111	121	137	171	183	134	32E	45 E	45	83	7.8
12	91	107	112	141	162	180	149	42	67	32	41	7.9
13	91	105	107	146	156	177	164	26	31	26	40	73
14	92	107	129	154	154	168	152	24	24	17	45	107
15	89	111	150	163	161	163	182	39	15	17	41	145
16	89	110	128	174	153	161	180	43	112	23	44	128
17	91E	112	129	187	151	161	176	33	112	35	25	177
18	86	113	148	189	175	157	175E	23	90	48	26	143
19	86	111	138	152	220	154	175E	17	79	72	20	130
20	88	113	134	134	246	163	190E	16	66	93	17	126
21	89	106	145	146	233	165	149	17	67	57	14	123
22	88	106	145	167	241	171	76	15	23	51	14	183
23	90	72	131	169	231	171	90	23	11	43	65E	253
24	91	75	135	166	205	164	59	41	10	16	136E	210
25	87	90	146	149	186	166	107	38	10	16	106E	189
26	80	111	144	100E	181	167	101	34	11	15	57E	182
27	83	111	147	125E	178	178	99	30	15	15	28	182
28	87	109	134	130E	176	176	139	15	19	36	27	175
29	87	123	135E	125E	194	171	65	12	19	22	26	166 E
30	94	149	135E	125E	-----	162	39	39	17	60	22	167 E
31	95	-----	135E	130E	-----	158	-----	20	-----	94	20	-----
TOTAL	2,597	3,218	4,077	4,412	4,965	5,648	4,138	967	931.6	1,139	1,967	3,242.1
MEAN	83.8	107	132	142	171	182	138	31.2	31.1	36.7	63.5	108
MAX	95	149	150	189	246	231	190	67	112	94	148	253
MIN	63	72	102	100	130	154	39	12	6.0	14	14	7.8
AC-FT	5,150	6,380	8,090	8,750	9,850	11,200	8,210	1,920	1,850	2,260	3,900	6,430
CAL YEAR 2003 TOTAL		39,734.70	MEAN	109	MAX	371	MIN	6.6	AC-FT	78,810		
WTR YEAR 2004 TOTAL		37,301.70	MEAN	102	MAX	253	MIN	6.0	AC-FT	73,990		

E indicates estimated discharge.

# PLATTE RIVER BASIN

**PLUM CREEK near Smithfield, 06767500 - 2004**

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

DRAINAGE AREA.--224 square miles.

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 89 cubic feet per second July 10, gage height 6.13 feet, minimum daily discharge 5.0 cubic feet per second Septembe 12.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	10	13	11 E	11 E	11E	13	13	11	14	11	7.3
2	9.2	10	11	11 E	12 E	12E	13	13	11	20	10	12
3	8.9	12	9.1	11 E	12	12E	13	13	11	24	10	13
4	8.8	16	9.3	12 E	11	11E	13	13	11	14	10	13
5	8.4	14	13	12 E	11 E	11E	13	13	11	36	8.9	15
6	8.3	12	11	12 E	11 E	12E	13	13	11	38	9.3	14
7	8.2	11	12 E	12 E	11 E	13E	13	13	11	17	9.9	14
8	8.0	11	13	11 E	9.7	14	13	13	10	13	9.8	12
9	8.0	11	13	11 E	12 E	14	13	13	9.9	58	11	7.4
10	7.7	12	12 E	11 E	11 E	14	13	28	11	63	10	6.2
11	9.9	14	12 E	12 E	11 E	14	13	13	19	19	11	6.6
12	14	12	12 E	12 E	12 E	13	13	13	14	15	10	5.0
13	13	12	11 E	13 E	8.4	13	13	13	11	13	9.0	6.7
14	13	11	11 E	11 E	11 E	15	14	13	10	12	9.7	5.6
15	9.7	11	11 E	11 E	12 E	14	14	13	10	13	8.2	7.0
16	9.7	12	10 E	12	12	14	13	14	11	15	8.4	7.7
17	11	11	10 E	12	11 E	15	13	14	13	15	8.1	6.8
18	11	11	11	11	12	15	13	14	12	14	8.7	8.0
19	11	11	11	11	17 E	14	13	14	12	13	8.8	8.4
20	9.3	11	11	12 E	23 E	13	13	14	13	13	9.0	8.3
21	10	11	12	11 E	16 E	13	16	14	13	15	9.8	7.2
22	10	10	13	10	12 E	13	15	14	13	14	9.8	8.6
23	9.4	11	12	10	11 E	13	14	13	13	14	11	12
24	9.3	12	12	10	12 E	14	16	13	13	16	13	14
25	9.2	12E	12	11	12 E	15	19	12	13	14	12	9.1
26	9.3	12E	13	12 E	12	14	18	12	13	13	13	8.3
27	9.7	12E	13	11 E	14	14	15	12	13	13	13	8.2
28	10	11E	12	11 E	12 E	18	15	12	14	14	12	18
29	10	11E	12	8.7	11 E	17	14	11	12	13	8.7	27
30	10	11	12 E	11 E	-----	14	13	11	13	13	6.1	11
31	10	-----	11 E	12 E	-----	13	-----	11	-----	13	6.5	-----
TOTAL	302.8	348	360.4	348.7	353.1	422	417	415	362.9	591	305.7	307.4
MEAN	9.77	11.6	11.6	11.2	12.2	13.6	13.9	13.4	12.1	19.1	9.86	10.2
MAX	14	16	13	13	23	18	19	28	19	63	13	27
MIN	7.7	10	9.1	8.7	8.4	11	13	11	9.9	12	6.1	5.0
AC-FT	601	690	715	692	700	837	827	823	720	1,170	606	610
CAL YEAR 2003	TOTAL	5,356.10	MEAN	14.7	MAX	100	MIN	6.0	AC-FT	10,620		
WTR YEAR 2004	TOTAL	4,534.00	MEAN	12.4	MAX	63	MIN	5.0	AC-FT	8,990		

E indicates estimated discharge.

## KEARNEY CANAL from Platte River, 00073000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	92	111	145	153
2							0	0	82	170	146	118
3							0	0	78	198	148	123
4							0	0	75	191	147	127
5							0	0	72	190	148	147
6							0	0	72	199	148	122
7							0	0	66	210	143	102
8							0	0	56	218	151	90
9							0	0	55	224	156	91
10							0	0	54	222	155	92
11							0	0	61	222	153	74
12							0	0	76	220	153	69
13							0	0	93	218	153	58
14							0	0	93	219	153	60
15							0	0	95	219	154	98
16							0	0	105	218	211	102
17							0	0	117	213	198	99
18							0	0	166	200	198	99
19							0	0	192	205	186	99
20							0	0	190	194	185	99
21							0	42	193	177	181	100
22							0	95	188	174	160	102
23							0	94	157	173	150	113
24							0	93	148	175	153	136
25							0	101	126	177	159	137
26							0	106	119	175	187	150
27							0	98	118	169	217	157
28							0	97	102	155	207	169
29							0	92	116	144	199	177
30					-----	0	0	92	100	147	183	82
31		-----			-----	0	-----	94	-----	144	174	-----
TOTAL						0	0	1,004	3,257	5,871	5,201	3,345
MEAN						0	0	32.4	109	189	168	112
MAX						0	0	106	193	224	217	177
MIN						0	0	0	54	111	143	58
AC-FT						0	0	1,990	6,460	11,650	10,320	6,630
CAL YEAR 2003	MAX	332	MIN	0	AC-FT	57,830						
WTR YEAR 2004	MAX	224	MIN	0	AC-FT	37,050						

# PLATTE RIVER BASIN

**KEARNEY POWER RETURN to Platte River, 00075000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1								0	58	45	74	80	
2								0	53	67	70	64	
3								0	49	118	64	52	
4								0	47	124	64	62	
5								0	50	147	66	76	
6								0	50	138	65	88	
7								0	47	143	69	65	
8								0	40	155	75	54	
9								0	32	178	82	48	
10								0	32	171	84	50	
11								0	31	167	77	47	
12								0	44	172	81	39	
13								0	56	171	87	34	
14								0	70	171	91	28	
15								0	70	167	96	46	
16								0	69	158	108	68	
17								0	77	151	141	69	
18								0	96	133	126	70	
19								0	131	132	130	71	
20								0	137	122	121	68	
21								0	158	108	112	68	
22								0	116	95	111	89	
23								0	119	94	89	82	
24								0	92	101	73	84	
25								21	88	103	78	96	
26								69	73	97	94	101	
27								0	66	72	93	125	
28								0	51	64	79	121	
29								0	52	53	72	128	
30					-----			0	50	60	74	126	
31		-----			-----		-----	32	-----	76	92	-----	
TOTAL								0	341	2,134	3,822	2,898	2,199
MEAN								0	11.0	71.1	123	93.5	73.3
MAX								0	69	158	178	141	128
MIN								0	0	31	45	64	28
AC-FT								0	676	4,230	7,580	5,750	4,360
CAL YEAR 2003	MAX	315	MIN	0	AC-FT	45,950							
WTR YEAR 2004	MAX	178	MIN	0	AC-FT	22,600							

**PLATTE RIVER near Odessa, 06770000 - 2004**

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

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

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

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Records are good, except for estimated records are poor and records below 200 cubic feet per second are fair.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,490 cubic feet per second March 2, gage height 4.12 feet; minimum daily discharge 8.6 cubic feet per second June 14.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	146	374	622	620E	1,090	432	236	16	12	49	14
2	139	151	564	388	300E	1,050	320	226	14	26	47	15
3	130	199	623	524	500E	948	279	210	11	23	48	17
4	114	189	617	233	700E	696	265	205	10	19	40	18
5	111	189	682	190E	700E	901	283	187	10	35	29	31
6	120	196	697	300E	600E	864	288	168	9.8	211	21	25
7	130	209	433	600E	600E	620	296	149	9.1	338	24	21
8	159	185	325	620E	500E	595	280	144	8.9	191	23	20
9	182	189	400E	660E	400E	806	287	180	8.8	145	14	19
10	149	192	450E	680E	500E	794	285	279	9.0	101	13	18
11	168	203	480E	380E	400E	752	258	228	8.8	93	18	15
12	146	207	500E	300E	400E	753	246	201	8.8	69	14	13
13	143	416	250E	658	620E	729	262	207	8.7	46	12	14
14	228	787	190E	588	560E	478	277	192	8.6	38	9.7	14
15	181	819	248	339	540E	441	290	178	11	35	11	36
16	139	820	438	560	300E	650	285	185	14	30	29	21
17	134	376	302	571	620E	703	300	194	12	26	34	19
18	144	557	240	346	782	460	310	195	12	21	34	18
19	162	502	467	323	863	442	266	191	12	18	21	20
20	171	490	591	614	916	602	324	186	11	18	17	21
21	175	553	359	591	883	357	283	148	14	21	13	21
22	177	611	296	610	1,070	311	278	123	13	22	11	58
23	160	295	506	614	626	289	285	121	11	26	12	122
24	151	469	595	566	557	299	312	109	11	34	11	117
25	162	564	615	636	773	569	329	63	9.5	40	11	147
26	126	656	363	240E	941	393	311	50	10	34	13	155
27	133	634	540	300E	965	510	290	35	10	31	13	122
28	155	357	452	500E	918	354	275	28	9.4	27	11	123
29	154	525	318	650E	998	310	247	26	9.2	28	12	74
30	158	648	486	700E	-----	282	239	25	8.9	46	12	139
31	155	-----	584	700E	-----	273	-----	19	-----	54	13	-----
TOTAL	4,706	12,334	13,985	15,603	19,152	18,321	8,682	4,688	319.5	1,858	639.7	1,467
MEAN	152	411	451	503	660	591	289	151	10.7	59.9	20.6	48.9
MAX	228	820	697	700	1,070	1,090	432	279	16	338	49	155
MIN	111	146	190	190	300	273	239	19	8.6	12	9.7	13
AC-FT	9,330	24,460	27,740	30,950	37,990	36,340	17,220	9,300	634	3,690	1,270	2,910
CAL YEAR 2003 TOTAL		125,857.80	MEAN	345	MAX	1,250	MIN	2.5	AC-FT	249,600		
WTR YEAR 2004 TOTAL		101,755.20	MEAN	278	MAX	1,090	MIN	8.6	AC-FT	201,800		

E indicates estimated discharge.

## PLATTE RIVER BASIN

## WOOD RIVER near Alda, 06772000 - 2004

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 19 cubic feet per second July 30, gage height 5.19 feet; minimum daily discharge zero on many days during the year.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	5.3	.94	1.3	1.0	2.4	5.1	3.7
2	0	0	0	0	0	3.3	1.0	1.1	.11	4.8	5.9	2.1
3	0	0	.10E	0	0	2.4	.55	.35	0	3.9	7.0	4.2
4	0	0	0 E	0	0	4.9	.22	.02	0	4.4	3.2	4.7
5	0	0	0	0	0	2.6	.02	0	0	4.1	2.3	5.0
6	0	0	0	0	0	2.1	.02	0	0	3.6	6.8	3.9
7	0	0	0	0	0	1.5	.02	0	0	3.1	8.8	3.1
8	0	0	0 E	0	0	1.6	0	0	0	3.1	5.4	2.7
9	0	0	0 E	0	0	1.1	0	0	0	11	5.9	2.2
10	0	0	0	0	0	.65	0	1.3	0	9.6	6.6	2.0
11	0	.11	0	0	0	.13	.01	2.0	0	8.8	6.3	2.0
12	0	.23	0	0	0	0	.10	3.2	0	6.0	4.2	.70
13	0	.03	0	0	0	0	.10	5.3	0	5.2	8.1	1.3
14	0	.07	0	0	0	0	.17	2.5	0	3.7	8.1	.21
15	.15	.18	0	0	0	0	.13	4.0	0	1.6	6.9	0
16	0	0	0	0	0	0	0	3.0	0	2.0	8.8	0
17	0	0	0	0	0	0	0	2.4	0	2.4	7.8	0
18	0	0	0	0	0	0	0	1.4	0	3.2	7.7	0
19	0	0	0	0	0	0	0	1.0	0	4.3	4.9	0
20	0	0	0 E	0	0	0	0	.66	.14	5.9	10	0
21	0	0	0 E	0	0	0	0	.38	.67	4.0	7.6	0
22	0	0	.20E	0	0	0	0	.76	.19	5.4	5.1	0
23	0	0	.40E	0	0	0	0	2.8	.22	4.9	8.7	1.8
24	0	0	.20E	0	0	0	0	1.3	.52	5.8	8.4	2.9
25	0	0	.70E	0	0	0	1.3	.98	.85	4.5	4.3	3.0
26	0	0	.10E	0	0	0	1.2	.47	.27	4.4	4.0	4.4
27	0	0	.50E	0	0	.59	2.7	.20	.45	4.2	8.6	3.0
28	0	0	.60E	0	.37	1.5	3.1	.04	.88	4.2	6.8	3.7
29	0	0	.20E	0	4.2	2.2	1.1	.10	.08	3.5	2.8	2.3
30	0	0	.80E	0	-----	3.7	.27	.34	1.4	11	2.6	1.4
31	0	-----	0	0	-----	1.5	-----	1.0	-----	7.9	4.0	-----
TOTAL	0.15	0.62	3.80	0	4.57	35.07	12.95	37.90	6.78	152.9	192.7	60.31
MEAN	.005	.021	.12	0	.16	1.13	.43	1.22	.23	4.93	6.22	2.01
MAX	.15	.23	.80	0	4.2	5.3	3.1	5.3	1.4	11	10	5.0
MIN	0	0	0	0	0	0	0	0	0	1.6	2.3	0
AC-FT	.3	1.2	7.5	0	9.1	70	26	75	13	303	382	120
CAL YEAR 2003	TOTAL	1,353.91	MEAN	3.71	MAX	99	MIN	0	AC-FT	2,690		
WTR YEAR 2004	TOTAL	507.75	MEAN	1.39	MAX	11	MIN	0	AC-FT	1,010		

E indicates estimated discharge.



( LOUP RIVER )

SARGENT CANAL from Middle Loup River, 00130000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	147	154	186
2									0	129	196	182
3									0	116	227	178
4									0	114	233	134
5									0	121	237	124
6									0	142	221	124
7									0	158	183	140
8									0	181	175	157
9									0	195	178	171
10									0	204	176	159
11									0	206	194	134
12									0	222	175	129
13									0	224	166	129
14									0	221	133	88
15									66	214	129	34
16									75	203	143	0
17									74	185	94	0
18									75	183	84	0
19									76	219	102	0
20									75	251	121	0
21									74	247	135	0
22									75	235	138	0
23									73	219	184	0
24									73	196	200	0
25									79	195	175	0
26									78	201	138	0
27									85	199	116	0
28									90	194	107	0
29									110	193	104	0
30					-----				128	183	128	0
31		-----			-----		-----		-----	159	168	-----
TOTAL									1,306	5,856	4,914	2,069
MEAN									43.5	189	159	69.0
MAX									128	251	237	186
MIN									0	114	84	0
AC-FT									2,590	11,620	9,750	4,100
CAL YEAR 2003	MAX	261	MIN	0	AC-FT	28,530						
WTR YEAR 2004	MAX	251	MIN	0	AC-FT	28,060						

# PLATTE RIVER BASIN ( LOUP RIVER )

MIDDLE LOUP CANAL NO. 1 from Middle Loup River, 00090000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	26	40	37
2								0	0	27	39	36
3								0	0	31	37	35
4								0	0	31	38	36
5								0	0	32	38	38
6								0	0	31	38	37
7								14	0	33	38	35
8								13	0	32	35	34
9								13	0	33	35	36
10								13	1.8	38	36	36
11								14	4.7	41	38	38
12								14	7.7	39	37	39
13								14	9.6	38	38	39
14								15	12	38	35	36
15								15	14	38	32	24
16								16	17	31	30	23
17								16	17	33	26	23
18								17	17	34	26	23
19								16	17	34	32	23
20								16	17	33	37	8.6
21								16	17	36	37	0
22								16	17	38	37	0
23								16	17	40	37	0
24								15	16	40	37	0
25								14	16	40	32	0
26								14	19	38	31	0
27								15	21	38	34	0
28								6.5	21	40	37	0
29								0	21	39	37	0
30					-----			0	22	38	37	0
31		-----			-----		-----	0	-----	39	38	-----
TOTAL								318.5	321.8	1,099	1,099	636.6
MEAN								10.3	10.7	35.5	35.5	21.2
MAX								17	22	41	40	39
MIN								0	0	26	26	0
AC-FT								632	638	2,180	2,180	1,260
CAL YEAR 2003	MAX	39	MIN	0	AC-FT	5,970						
WTR YEAR 2004	MAX	41	MIN	0	AC-FT	6,890						

( LOUP RIVER )

MIDDLE LOUP CANAL NO. 1 PUMP from Middle Loup River, 00090200 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										0	9.0	
2										0	9.0	
3										0	9.0	
4										0	9.0	
5										0	9.0	
6										0	9.0	
7										0	9.0	
8										0	9.0	
9										0	9.0	
10										0	9.0	
11										2.2	9.0	
12										9.0	9.0	
13										9.0	9.0	
14										9.0	9.0	
15										6.8	9.0	
16										0	0	
17										0	0	
18										0	0	
19										0	0	
20										3.6	0	
21										9.0	0	
22										9.0	0	
23										9.0	0	
24										9.0	0	
25										9.0	0	
26										9.0	0	
27										9.0	0	
28										9.0	0	
29										9.0	0	
30					-----					9.0	0	
31		-----			-----		-----		-----	9.00	0	-----
TOTAL										138.6	135.0	
MEAN										4.47	4.35	
MAX										9.0	9.0	
MIN										0	0	
AC-FT										275	268	
CAL YEAR 2003	MAX	9.0	MIN	0	AC-FT	985						
WTR YEAR 2004	MAX	9.0	MIN	0	AC-FT	543						

# PLATTE RIVER BASIN ( LOUP RIVER )

MIDDLE LOUP CANAL NO. 2 from Middle Loup River, 00091000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	40	43	44
2								0	0	40	45	45
3								0	0	39	48	44
4								0	0	37	50	40
5								20	0	39	51	36
6								16	0	39	51	34
7								16	5.2	42	49	31
8								17	19	44	47	34
9								18	20	44	48	36
10								19	22	48	48	36
11								20	23	47	46	36
12								19	23	48	47	35
13								19	23	47	50	33
14								19	24	48	49	31
15								19	25	46	47	20
16								19	27	40	35	18
17								20	27	39	27	16
18								21	26	39	26	17
19								21	26	41	35	17
20								21	26	43	35	6.5
21								21	27	46	35	0
22								21	26	46	33	0
23								22	26	46	37	0
24								24	23	45	41	0
25								23	19	45	37	0
26								23	21	45	39	0
27								22	24	45	40	0
28								9.3	26	46	41	0
29								0	27	44	40	0
30					-----			0	31	41	41	0
31		-----			-----		-----	0	-----	43	43	-----
TOTAL								469.3	566.2	1,342	1,304	609.5
MEAN								15.1	18.9	43.3	42.1	20.3
MAX								24	31	48	51	45
MIN								0	0	37	26	0
AC-FT								931	1,120	2,660	2,590	1,210
CAL YEAR 2003	MAX	58	MIN	0	AC-FT	7,730						
WTR YEAR 2004	MAX	51	MIN	0	AC-FT	8,510						

## ( LOUP RIVER )

## MIDDLE LOUP CANAL NO. 3 from Middle Loup River, 00092000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	35	141	141	125
2								0	34	145	140	130
3								42	34	143	134	126
4								36	34	139	133	124
5								36	34	137	132	123
6								46	33	138	129	125
7								49	33	130	126	122
8								51	28	128	130	119
9								54	26	122	138	119
10								57	26	118	126	115
11								53	26	119	128	116
12								47	25	121	132	113
13								48	24	128	130	113
14								48	24	119	127	119
15								48	23	119	136	99
16								48	23	129	130	69
17								47	23	131	126	53
18								46	23	127	120	47
19								46	24	129	115	46
20								46	24	127	114	22
21								46	23	129	110	0
22								47	24	133	110	0
23								47	27	136	118	0
24								48	33	133	107	0
25								48	40	132	93	0
26								47	43	133	93	0
27								44	47	136	92	0
28								37	74	144	96	0
29								36	97	140	101	0
30					-----			36	116	138	108	0
31		-----			-----		-----	36	-----	137	116	-----
TOTAL								1,320	1,080	4,081	3,731	2,025
MEAN								42.6	36.0	132	120	67.5
MAX								57	116	145	141	130
MIN								0	23	118	92	0
AC-FT								2,620	2,140	8,090	7,400	4,020
CAL YEAR 2003	MAX	150	MIN	0	AC-FT	19,780						
WTR YEAR 2004	MAX	145	MIN	0	AC-FT	24,270						

# PLATTE RIVER BASIN ( LOUP RIVER )

MIDDLE LOUP CANAL NO. 4 from Middle Loup River, 00093000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	36	75	112	119
2								0	33	82	114	112
3								0	30	83	109	109
4								26	30	83	109	110
5								43	28	84	113	111
6								38	26	85	111	110
7								39	26	87	112	108
8								40	29	85	113	110
9								45	28	79	109	119
10								56	28	76	108	126
11								46	28	82	109	127
12								46	27	94	103	136
13								46	28	98	102	146
14								46	29	97	102	153
15								46	36	94	103	104
16								47	39	91	100	101
17								47	39	90	98	112
18								45	38	90	96	118
19								45	38	105	95	126
20								45	38	113	96	45
21								44	37	123	101	0
22								45	36	122	105	0
23								45	37	116	114	0
24								47	38	110	86	0
25								46	40	110	69	0
26								44	41	109	68	0
27								43	44	105	67	0
28								40	55	104	67	0
29								37	61	107	75	0
30					-----			37	67	111	95	0
31		-----			-----		-----	37	-----	111	107	-----
TOTAL								1,211	1,090	3,001	3,068	2,302
MEAN								39.1	36.3	96.8	99.0	76.7
MAX								56	67	123	114	153
MIN								0	26	75	67	0
AC-FT								2,400	2,160	5,950	6,090	4,570
CAL YEAR 2003	MAX	133	MIN	0	AC-FT	19,910						
WTR YEAR 2004	MAX	153	MIN	0	AC-FT	21,170						

## ( LOUP RIVER )

## FARWELL (SHERMAN FEEDER) CANAL from Middle Loup River, 00047000 - 2004

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

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

PERIOD OF RECORD.--1963 - present

REMARKS.--Total diversion includes 317 A.F. delivered to Middle Loup Canal No. 4

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	420						0	353	297	449	351	295
2	411						0	355	256	432	379	304
3	420						0	363	261	436	359	312
4	422						0	285	259	441	334	312
5	417						0	358	259	442	301	312
6	414						0	357	258	452	278	308
7	413						0	355	332	412	305	312
8	413						0	355	418	387	319	316
9	416						0	347	425	281	327	332
10	425						0	342	425	130	330	372
11	426						0	359	354	131	382	373
12	413						0	354	307	194	370	372
13	361						40	354	303	230	350	371
14	403						113	358	354	234	359	371
15	399						210	358	421	232	360	351
16	406						242	358	446	230	300	353
17	424						243	355	398	232	259	368
18	414						248	358	331	233	259	368
19	405						283	355	305	284	257	365
20	400						297	356	303	253	260	404
21	404						294	359	274	256	258	212
22	403						315	359	253	265	260	143
23	400						320	359	252	293	259	97
24	414						326	362	275	328	257	100
25	430						327	357	325	350	257	101
26	424						327	357	349	342	261	102
27	396						309	357	347	303	260	102
28	384						339	359	435	312	263	102
29	314						342	357	524	360	263	174
30	200				-----		346	359	526	353	281	201
31	64	-----			-----		-----	362	-----	353	296	-----
TOTAL	12,055						4,921	10,982	10,272	9,630	9,354	8,205
MEAN	389						164	354	342	311	302	274
MAX	430						346	363	526	452	382	404
MIN	64						0	285	252	130	257	97
AC-FT	23,910						9,760	21,780	20,370	19,100	18,550	16,270
CAL YEAR 2003	MAX	595	MIN	0	AC-FT	118,800						
WTR YEAR 2004	MAX	526	MIN	0	AC-FT	129,800						

# PLATTE RIVER BASIN ( LOUP RIVER )

MIDDLE LOUP CANAL NO. 4 from Sherman Feeder Canal, 00093200 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	8.0	0	18
2								0	0	0	9.3	18
3								0	0	0	4.7	9.1
4								0	0	0	11	11
5								0	0	0	7.0	4.5
6								13	0	0	0	0
7								0	0	0	0	0
8								0	0	0	0	0
9								0	0	0	0	0
10								15	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	0	0	0
20								0	0	6.9	0	0
21								0	0	14	0	0
22								0	0	3.4	0	0
23								0	0	0	0	0
24								0	0	0	0	0
25								0	0	0	0	0
26								0	0	0	0	0
27								0	0	0	0	0
28								0	0	0	0	0
29								0	0	0	0	0
30					-----			0	0	0	0	0
31		-----			-----		-----	0	-----	0	6.8	-----
TOTAL								28	0	32.3	38.8	60.6
MEAN								.90	0	1.04	1.25	2.02
MAX								15	0	14	11	18
MIN								0	0	0	0	0
AC-FT								56	0	64	77	120
CAL YEAR 2003	MAX	26	MIN	0	AC-FT	176						
WTR YEAR 2004	MAX	18	MIN	0	AC-FT	317						



## ( LOUP RIVER )

## SHERMAN RESERVOIR from the Middle Loup River, 06784200 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32,230	52,720	51,290	49,650	48,730	48,270	47,140	54,920	69,650	69,080	64,310	41,750
2	32,930	52,720	51,060	49,650	48,500	48,040	47,140	55,420	69,650	68,790	63,760	40,930
3	33,820	52,970	51,060	49,650	48,500	48,040	47,140	55,920	69,650	68,500	62,670	39,910
4	34,540	53,210	51,060	49,650	48,500	48,040	46,920	56,420	69,360	68,210	61,870	39,110
5	35,280	52,970	51,060	49,650	48,500	48,040	46,920	56,680	69,360	67,930	60,810	38,520
6	36,020	52,970	50,820	49,650	48,500	48,040	46,920	57,180	69,360	68,210	59,750	37,940
7	36,780	52,720	50,820	49,420	48,500	48,040	46,920	57,690	69,080	68,210	58,720	37,540
8	37,540	52,480	50,820	49,420	48,500	48,040	46,700	58,200	69,080	68,790	58,200	37,160
9	38,330	52,480	50,820	49,420	48,500	48,040	46,700	58,720	69,360	69,650	57,430	36,970
10	39,110	52,480	50,820	49,420	48,500	47,810	46,700	59,240	69,360	69,650	56,680	36,590
11	40,120	52,480	50,580	49,420	48,500	47,810	46,700	59,750	69,650	69,360	56,170	36,400
12	40,720	52,480	50,580	49,420	48,270	47,810	46,700	60,280	69,650	69,360	55,420	36,210
13	41,540	52,410	50,580	49,420	48,270	47,810	46,480	60,810	69,650	69,360	54,670	36,210
14	42,170	52,410	50,580	49,190	48,270	47,810	46,480	61,340	69,360	69,360	54,180	36,400
15	42,800	52,410	50,580	49,190	48,270	47,810	46,480	61,870	69,360	69,360	53,700	36,780
16	43,420	52,000	50,350	49,190	48,040	47,600	46,920	62,140	69,650	69,360	53,210	37,350
17	44,290	52,000	50,350	49,190	48,040	47,600	47,310	63,220	69,650	69,360	52,720	38,130
18	44,940	52,000	50,350	49,190	48,040	47,600	47,810	63,760	69,490	69,070	52,000	38,720
19	45,580	52,000	50,350	49,190	48,040	47,600	48,270	64,310	69,490	69,070	51,290	39,310
20	46,250	51,770	50,350	49,190	48,040	47,600	48,960	64,860	69,650	68,790	50,580	39,910
21	46,920	51,770	50,350	49,190	48,040	47,310	49,420	65,130	69,490	68,210	49,650	40,720
22	47,590	51,770	50,110	49,190	48,040	47,310	49,880	65,690	69,490	67,650	48,730	41,330
23	48,270	52,770	50,110	49,190	48,040	47,310	50,580	66,250	69,650	67,370	48,040	42,170
24	48,960	51,530	50,110	49,190	48,040	47,310	51,060	66,810	69,650	67,090	47,140	42,170
25	49,420	51,530	50,110	49,190	48,040	47,310	51,770	67,370	69,650	66,810	46,250	42,380
26	50,110	51,530	50,110	49,190	47,810	47,310	52,240	67,930	69,360	66,810	45,580	42,380
27	50,820	51,290	50,110	49,190	47,810	47,310	52,720	68,210	69,360	66,810	44,940	42,590
28	51,530	51,290	49,880	48,960	47,810	47,310	53,210	68,790	69,360	66,530	44,290	42,800
29	52,000	51,290	49,880	48,960	47,810	47,310	53,700	68,790	69,080	66,250	43,640	42,800
30	52,480	51,290	49,880	48,960	-----	47,310	54,430	69,650	69,080	65,970	43,210	43,000
31	52,720	-----	49,880	48,960	-----	47,140	-----	69,650	-----	65,130	42,590	-----
MAX	52,720	53,210	51,290	49,650	48,730	48,270	54,430	69,650	69,650	69,650	64,310	43,000
MIN	32,230	51,290	49,880	48,960	47,810	47,140	46,480	54,920	69,080	65,130	42,590	36,210
CHANGE	3,530	-1,430	-1,410	-920	-1,150	-670	7,290	15,220	-570	-3,950	-22,540	410
CAL YEAR 2003			MEAN	49,690	MAX	69,900	MIN	15,100				
WTR YEAR 2004			MEAN	52,721	MAX	69,650	MIN	32,230				

# PLATTE RIVER BASIN ( LOUP RIVER )

FARWELL "MAIN" CANAL from Sherman Reservoir, 00048000 - 2004

LOCATION.--NW1/4SW1/4 Sec. 1-15-14 W. below Sherman Reservoir

GAGE.--Continuous stage recorder and six orifice gates

PERIOD OF RECORD.--1964 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	111	362	490	404
2								0	111	372	515	412
3								0	111	339	515	404
4								0	132	330	503	355
5								0	143	301	478	339
6								0	143	160	452	285
7								0	140	111	401	240
8								0	140	100	382	226
9								0	148	69	404	225
10								0	156	58	420	216
11								0	156	64	428	177
12								0	156	73	417	162
13								0	156	77	406	158
14								0	156	74	363	140
15								0	158	68	348	34
16								0	160	67	348	0
17								0	156	69	344	0
18								0	146	69	364	0
19								0	135	120	391	0
20								0	129	231	400	0
21								0	121	314	408	0
22								0	118	171	412	0
23								0	120	115	428	0
24								0	133	126	433	0
25								0	143	130	361	0
26								0	168	130	307	0
27								0	175	150	291	0
28								68	214	184	278	0
29								108	277	243	273	0
30					-----			108	335	352	322	0
31		-----			-----		-----	108	-----	470	378	-----
TOTAL								392	4,647	5,499	12,260	3,777
MEAN								12.6	155	177	395	126
MAX								108	335	470	515	412
MIN								0	111	58	273	0
AC-FT								778	9,220	10,910	24,320	7,490
CAL YEAR 2003	MAX	471	MIN	0	AC-FT	57,270						
WTR YEAR 2004	MAX	515	MIN	0	AC-FT	52,710						

## ( LOUP RIVER )

## FARWELL "SOUTH" CANAL from Sherman Reservoir, 00049000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	51	206	220	238
2								0	51	211	256	248
3								0	50	187	294	243
4								0	50	180	306	223
5								0	50	153	310	214
6								0	50	88	294	201
7								0	62	62	262	176
8								0	67	51	249	190
9								0	77	44	253	184
10								0	84	37	253	174
11								0	85	35	253	153
12								0	79	39	245	144
13								0	77	52	227	127
14								0	77	55	206	115
15								0	78	51	200	28
16								0	79	56	200	0
17								0	79	68	215	0
18								0	79	72	229	0
19								0	74	134	245	0
20								0	72	215	250	0
21								0	69	238	236	0
22								0	66	238	232	0
23								0	66	229	256	0
24								0	67	214	272	0
25								0	66	214	261	0
26								0	69	189	246	0
27								0	72	186	235	0
28								34	98	200	202	0
29								51	145	199	194	0
30					-----			51	180	204	209	0
31		-----			-----		-----	51	-----	216	227	-----
TOTAL								187	2,269	4,323	7,537	2,658
MEAN								6.03	75.6	139	243	88.6
MAX								51	180	238	310	248
MIN								0	50	35	194	0
AC-FT								371	4,500	8,570	14,950	5,270
CAL YEAR 2003	MAX	269	MIN	0	AC-FT	33,580						
WTR YEAR 2004	MAX	310	MIN	0	AC-FT	33,670						

# PLATTE RIVER BASIN ( LOUP RIVER )

**MUD CREEK near Sweetwater, 06783500 - 2004**

LOCATION.--N1/4SE1/4 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 fair, 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, 2002, 2003.

EXTREMES FOR CURRENT YEAR.--Peak discharge 826 cubic feet per second May 31, gage height 13.80 feet; minimum daily discharge 6.0 cubic feet per second August 6.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	12	10E	11 E	14E	43E	20	18	98	17	11	19
2	7.4	13	10E	10 E	15E	40E	18	18	46	24	11	19
3	7.6	14	11E	9.4E	14E	35E	18	17	28	19	10	13
4	8.1	16	11E	9.0E	13E	36E	17	17	22	18	8.8	12
5	8.4	14	12E	8.0E	14E	30E	18	17	20	29	8.6	15
6	8.6	14	11E	9.0E	13E	23E	18	16	20	123	6.0	21
7	8.5	17	12E	10 E	12E	20E	18	16	19	26	9.0	26
8	8.2	13	12E	10 E	11E	19	18	16	18	19	11	24
9	8.8	12	13E	11 E	12E	19	18	15	18	212	12	24
10	8.8	12	11E	12 E	13E	18	18	22	17	232	14	25
11	9.8	12	12E	14 E	14E	18	18	22	69	50	15	26
12	11	12	13E	13 E	15E	17	18	17	20	22	18	27
13	6.4	11	12E	14 E	14E	18	17	16	17	19	17	29
14	12	11	11E	16 E	13E	18	18	19	18	19	16	27
15	11	11	11E	16 E	14E	18	18	16	19	17	15	28
16	12	12	12E	17 E	12E	19	17	17	18	16	17	29
17	11	12	11E	16 E	13E	19	17	204	37	16	17	34
18	11	12	12E	15 E	14E	19	17	242	56	16	17	37
19	11	12	13E	14 E	17E	18	17	62	37	15	16	33
20	11	11	13E	16 E	20E	18	18	32	24	12	17	27
21	11	11	12E	17 E	30E	18	21	26	131	9.8	14	25
22	11	11	13E	18 E	35E	17	22	23	58	16	13	29
23	11	9.0E	12E	17 E	32E	18	19	25	31	14	13	37
24	11	8.4E	12E	16 E	28E	18	20	24	23	11	16	34
25	11	8.4E	12E	15 E	30E	17	23	32	19	11	17	32
26	11	9.0E	11E	16 E	35E	18	28	36	18	12	10	34
27	12	9.6E	10E	15 E	40E	20	22	22	18	14	12	27
28	12	9.2E	11E	14 E	45E	31	21	19	18	9.7	13	27
29	12	9.0E	11E	13 E	45E	23	21	18	18	15	15	24
30	12	9.4E	10E	14 E	-----	20	18	462	17	8.6	17	18
31	12	-----	10E	15 E	-----	21	-----	637	-----	15	18	-----
TOTAL	313.6	347.0	357	420.4	597	686	571	2,143	972	1,057.1	424.4	782
MEAN	10.1	11.6	11.5	13.6	20.6	22.1	19.0	69.1	32.4	34.1	13.7	26.1
MAX	12	17	13	18	45	43	28	637	131	232	18	37
MIN	6.4	8.4	10	8.0	11	17	17	15	17	8.6	6.0	12
AC-FT	622	688	708	834	1,180	1,360	1,130	4,250	1,930	2,100	842	1,550
CAL YEAR 2003	TOTAL	6,465.95	MEAN	17.7	MAX	265	MIN	0	AC-FT	12,830		
WTR YEAR 2004	TOTAL	8,670.50	MEAN	23.7	MAX	637	MIN	6.0	AC-FT	17,200		

E indicates estimated discharge.

## ( LOUP RIVER )

## TURKEY CREEK near Dannebrog, 06784800 - 2004

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 453 cubic feet per second July 10, gage height 11.78 feet, minimum daily discharge 2.5 cubic feet per second October 9.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	4.9	5.9	4.7E	4.7E	47	7.1	6.1	19	18	29	21
2	3.4	5.3	5.8	4.5E	4.6E	24	6.8	6.0	12	21	30	21
3	3.2	8.1	5.8	4.7E	5.0E	11	7.3	5.9	9.7	23	31	23
4	3.2	9.6	6.0	4.5E	5.6E	11	5.8	5.7	8.5	16	28	27
5	2.9	6.3	5.2E	4.3E	5.6E	12	6.0	5.8	7.9	30	25	35
6	2.7	5.4	4.6E	4.0E	6.0E	12	6.6	5.5	7.6	20	25	37
7	2.6	5.0	4.7E	4.5E	5.6E	10	6.5	5.1	7.1	16	27	28
8	2.6	5.2	4.8E	4.8E	6.0E	9.4	6.3	3.8	6.5	31	25	20
9	2.5	5.3	4.7E	5.6E	6.2E	9.0	6.6	4.9	6.2	146	26	17
10	2.8	5.3	4.5E	6.2E	6.8E	8.7	7.6	6.7	7.0	245	28	16
11	3.9	5.3	4.8E	7.2	6.4E	8.6	7.1	5.8	34	25	34	15
12	4.3	5.4	5.2E	7.4	6.0E	8.2	6.6	5.1	26	17	33	15
13	3.8	5.5	5.6	6.9	6.2E	8.3	6.9	5.9	8.1	64	30	15
14	4.0	5.6	5.7	6.9	6.4E	8.2	6.3	5.5	6.7	35	27	15
15	4.1	5.9	6.1	7.0	6.2E	8.0	6.0	5.2	6.2	25	27	25
16	4.2	5.6	6.1	6.8	5.8E	8.1	6.0	5.5	7.2	15	29	39
17	4.3	5.5	6.0	6.8	6.0E	7.8	5.8	105	7.2	12	26	12
18	4.2	5.5	6.3	6.0E	6.4	7.9	5.7	37	8.0	12	27	8.3
19	4.2	5.3	6.2	5.4E	7.4	7.7	5.5	11	9.2	11	27	5.3
20	3.8	5.3	6.1	5.6E	9.9	7.7	6.1	8.4	7.0	11	27	5.9
21	3.8	4.7E	6.3	6.0	35	7.4	6.4	7.2	33	13	25	6.0
22	3.8	4.4E	6.5	6.1	46	7.1	6.8	7.9	27	53	22	57
23	3.7	4.3E	5.6E	6.4	24	7.4	6.6	18	7.9	37	24	237
24	4.0	4.0E	5.0E	6.5	13	7.6	7.6	7.4	7.2	15	37	53
25	4.3	4.2E	5.2E	6.0E	8.8	7.8	11	6.5	7.2	15	58	17
26	4.5	4.6E	5.0E	5.4E	7.9	7.6	8.1	6.3	7.1	14	31	11
27	4.8	4.9E	4.7E	5.0E	8.1	9.3	7.1	6.0	8.1	14	25	9.5
28	5.0	5.2E	4.7E	4.5E	8.3	9.7	7.0	5.8	10	14	22	8.9
29	4.8	5.7	4.9E	4.7E	13	7.7	6.9	5.7	11	16	22	8.6
30	5.2	5.9	4.8E	4.5E	-----	7.1	6.5	146	16	19	21	8.0
31	5.0	-----	4.5E	4.8E	-----	7.1	-----	169	-----	25	21	-----
TOTAL	118.7	163.2	167.3	173.7	286.9	320.4	202.6	635.7	345.6	1,028	869	816.5
MEAN	3.83	5.44	5.40	5.60	9.89	10.3	6.75	20.5	11.5	33.2	28.0	27.2
MAX	5.2	9.6	6.5	7.4	46	47	11	169	34	245	58	237
MIN	2.5	4.0	4.5	4.0	4.6	7.1	5.5	3.8	6.2	11	21	5.3
AC-FT	235	324	332	345	569	636	402	1,260	685	2,040	1,720	1,620
CAL YEAR 2003 TOTAL		4,768.50	MEAN	13.1	MAX	225	MIN	2.5	AC-FT	9,460		
WTR YEAR 2004 TOTAL		5,127.60	MEAN	14.0	MAX	245	MIN	2.5	AC-FT	10,170		

E indicates estimated discharge.

# PLATTE RIVER BASIN ( LOUP RIVER )

**TAYLOR-ORD CANAL from North Loup River, 00107000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	66	93	208	192
2								0	60	98	209	193
3								35	72	95	211	190
4								31	62	94	211	189
5								18	61	107	212	194
6								22	59	128	212	195
7								29	61	146	212	192
8								39	58	165	212	193
9								38	67	188	211	190
10								39	71	191	211	182
11								43	75	190	211	177
12								45	66	198	210	180
13								51	70	199	208	158
14								56	65	211	206	140
15								60	71	212	207	125
16								64	70	210	202	99
17								62	70	208	194	101
18								62	70	209	193	101
19								71	68	209	196	96
20								67	66	211	192	96
21								64	56	210	194	89
22								67	68	210	193	53
23								57	62	214	197	0
24								58	63	212	193	0
25								65	65	212	192	0
26								63	68	208	199	0
27								63	66	209	202	0
28								65	69	212	203	0
29								66	91	211	202	0
30					-----			45	95	211	195	0
31		-----			-----		-----	65	-----	209	192	-----
TOTAL								1,510	2,031	5,680	6,290	3,325
MEAN								48.7	67.7	183	203	111
MAX								71	95	214	212	195
MIN								0	56	93	192	0
AC-FT								3,000	4,030	11,270	12,480	6,600
CAL YEAR 2003	MAX	236	MIN	0	AC-FT	38,020						
WTR YEAR 2004	MAX	214	MIN	0	AC-FT	37,360						

## ( LOUP RIVER )

TAYLOR-ORD CANAL inlet to Mirdan Canal, 00107100 - 2004

LOCATION.--NW1/4NW1/4 Sec. 35-21-16 W. near Burwell

GAGE.--Continuous stage recorder and modified Parshall flume

PERIOD OF RECORD.--1989 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	46	75	133	111
2								0	43	76	131	113
3								0	46	76	124	113
4								17	42	74	123	114
5								6.1	39	78	124	115
6								5.6	39	86	124	114
7								4.2	37	91	126	123
8								12	39	94	130	128
9								18	41	102	130	126
10								16	47	101	127	122
11								16	54	96	129	119
12								15	51	98	126	123
13								19	45	103	128	125
14								21	49	118	129	112
15								25	45	125	134	79
16								25	50	124	136	64
17								27	50	124	136	52
18								22	54	125	137	47
19								25	52	124	137	46
20								26	52	121	136	46
21								25	48	121	130	43
22								27	45	118	128	38
23								36	48	126	128	18
24								28	45	134	122	3.6
25								33	48	133	117	0
26								37	48	131	117	0
27								36	51	125	120	0
28								34	46	127	121	0
29								40	66	130	120	0
30								36	75	134	117	0
31		-----			-----		-----	33	-----	133	112	-----
TOTAL								664.9	1,441	3,423	3,932	2,094.6
MEAN								21.4	48.0	110	127	69.8
MAX								40	75	134	137	128
MIN								0	37	74	112	0
AC-FT								1,320	2,860	6,790	7,800	4,150
CAL YEAR 2003	MAX	131	MIN	0	AC-FT	22,890						
WTR YEAR 2004	MAX	137	MIN	0	AC-FT	22,920						

# PLATTE RIVER BASIN ( LOUP RIVER )

TAYLOR-ORD CANAL outlet from Mirdan Canal, 00107200 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	39	64	82	70
2								0	43	62	84	71
3								0	40	60	85	73
4								27	41	58	81	75
5								24	39	58	80	76
6								23	38	58	81	75
7								22	37	59	80	77
8								23	40	64	83	75
9								31	38	67	85	78
10								33	43	70	85	76
11								29	51	68	85	71
12								31	50	65	82	76
13								32	43	66	83	78
14								37	45	70	82	74
15								39	44	74	84	72
16								39	48	76	83	65
17								38	49	79	81	51
18								35	50	81	79	41
19								34	52	84	78	39
20								39	52	84	79	37
21								35	52	83	80	35
22								33	46	80	80	13
23								34	46	80	82	0
24								32	45	82	85	0
25								34	45	83	79	0
26								40	46	84	74	0
27								42	48	84	75	0
28								37	47	83	77	0
29								39	49	81	78	0
30								42	62	82	77	0
31		-----			-----		-----	33	-----	81	75	-----
TOTAL								937	1,368	2,270	2,504	1,398
MEAN								30.2	45.6	73.2	80.8	46.6
MAX								42	62	84	85	78
MIN								0	37	58	74	0
AC-FT								1,860	2,710	4,500	4,970	2,770
CAL YEAR 2003	MAX	81	MIN	0	AC-FT	14,970						
WTR YEAR 2004	MAX	85	MIN	0	AC-FT	16,810						



## ( LOUP RIVER )

## KENT CANAL from North Loup River, 00076500 - 2004

LOCATION.--NW1/4SE1/4 Sec. 26-21-17 W., Loup County

GAGE.--Continuous stage recorder and 20 foot Ramp flume

PERIOD OF RECORD.--1995 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	255	106			
2							0	255	136			
3							0	254	148			
4							0	269	147			
5							0	261	146			
6							0	254	146			
7							0	258	146			
8							0	261	146			
9							0	260	144			
10							0	261	143			
11							0	259	144			
12							0	262	144			
13							2.5	262	143			
14							47	261	143			
15							69	260	144			
16							103	260	144			
17							121	261	143			
18							121	262	141			
19							142	262	141			
20							175	263	140			
21							198	262	141			
22							234	262	141			
23							242	108	142			
24							240	3.7	142			
25							239	3.9	142			
26							241	37	142			
27							250	86	142			
28							254	102	108			
29							256	103	59			
30							255	104	14			
31		-----			-----		-----	104	-----			-----
TOTAL							3,189.5	6,375.6	4,008			
MEAN							106	206	134			
MAX							256	269	148			
MIN							0	3.7	14			
AC-FT							6,330	12,650	7,950			
CAL YEAR 2003	MAX	194	MIN	0	AC-FT	21,090						
WTR YEAR 2004	MAX	269	MIN	0	AC-FT	26,920						

# PLATTE RIVER BASIN ( LOUP RIVER )

## CALAMUS RIVER near Harrop, 06787000 - 2004

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 6.22 feet January 28, 2004 due to backwater from ice; minimum daily discharge 90 cubic feet per second January 7, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge 584 cubic feet per second May 23, gage height 4.74 feet; maximum gage height 6.22 feet January 28 due to backwater from ice; minimum daily discharge 198 cubic feet per second September 2 & 3.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	217	223	270	234	215E	359	258	229	337	257	243	202
2	221	232	260	237	220E	324	245	221	271	245	238	198
3	223	258	262	237	227	305	235	223	251	240	230	198
4	219	252	260	220E	222	293	223	227	244	247	241	200
5	222	236	238	210E	221	275	230	232	243	250	225	227
6	224	232	241	200E	205	273	239	219	242	268	221	229
7	226	233	266	210E	210E	266	232	214	236	264	219	214
8	229	236	267	230E	215	262	229	214	333	243	221	211
9	233	241	261	245	228	271	258	221	348	233	217	203
10	230	258	239	251	235	268	269	247	284	249	224	202
11	272	265	260	274	232	247	253	230	290	245	241	203
12	272	256	252	281	210E	247	233	211	265	232	233	206
13	265	234	253	240	199	258	228	199	250	224	227	205
14	244	253	245E	230	232	240	228	203	240	255	220	220
15	231	261	230E	229	225E	256	235	223	235	274	218	310
16	232	262	235E	241	235E	266	227	258	233	248	265	271
17	232	264	245E	244	244	264	225	277	244	234	241	260
18	246	261	252	224	280	267	228	228	254	228	254	232
19	246	260	247	205E	259	267	222	223	262	221	243	229
20	237	257	252	210E	249	248	244	225	269	220	228	229
21	237	257	256	216	257	231	264	223	272	253	217	226
22	229	244	257	220	270	230	277	269	267	230	218	290
23	231	210E	254	228	265	249	290	537	245	228	254	400
24	230	220E	246	234	252	255	298	450	236	239	291	342
25	223	264	250	226	241	257	304	326	232	246	244	316
26	222	278	249	215E	239	264	286	275	248	231	225	296
27	229	256	253	205E	256	311	269	256	261	220	226	262
28	239	246	246	200E	261	319	253	247	249	250	220	244
29	232	250	238	200E	296	335	234	249	251	269	212	229
30	229	266	242	205E	-----	304	225	398	263	260	207	227
31	223	-----	242	210E	-----	262	-----	353	-----	244	203	-----
TOTAL	7,245	7,465	7,768	7,011	6,900	8,473	7,441	8,107	7,855	7,547	7,166	7,281
MEAN	234	249	251	226	238	273	248	262	262	243	231	243
MAX	272	278	270	281	296	359	304	537	348	274	291	400
MIN	217	210	230	200	199	230	222	199	232	220	203	198
AC-FT	14,370	14,810	15,410	13,910	13,690	16,810	14,760	16,080	15,580	14,970	14,210	14,440
CAL YEAR 2003 TOTAL		92,476	MEAN	253	MAX	438	MIN	140	AC-FT	183,400		
WTR YEAR 2004 TOTAL		90,259	MEAN	247	MAX	537	MIN	198	AC-FT	179,000		

E indicates estimated discharge.

## ( LOUP RIVER )

## CALAMUS RESERVOIR from Calamus River, 06787300 - 2004

LOCATION.--NE1/4SW1/4 Sec. 31-22-16 W., Garfield County, Lat. 41° 49' 38", Long. 99° 13' 11", near right bank in control house of outlet works of Calamus Dam on Calamus River, 4 miles upstream from mouth, 5.5 miles northwest of Burwell.

GAGE.--Continuous stage recorder. Gage datum is sea level.

PERIOD OF RECORD.--1985 - present

STORAGE LEVEL	ELEVATION (Feet)	CONTENT (Acre-feet)
Top of conservation pool	2,244.0	127,400
Top of dead storage pool	2,185.0	817

## DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48,210	59,450	72,710	88,140	103,000	117,700	118,900	127,500	127,100	123,800	103,300	81,330
2	48,130	59,830	73,220	88,620	103,700	117,700	119,300	127,800	126,900	123,300	102,500	84,490
3	48,040	60,530	73,760	89,100	104,000	117,800	119,600	127,600	126,700	122,900	101,600	79,390
4	48,290	60,720	74,260	89,590	104,600	118,100	119,700	127,800	126,500	122,400	100,800	78,230
5	49,250	61,400	74,810	90,080	105,400	118,300	120,000	127,900	126,400	122,000	99,600	77,490
6	50,160	61,750	75,100	90,360	106,000	118,400	120,300	128,200	126,300	121,600	98,600	76,670
7	50,180	62,240	75,640	90,650	106,400	118,400	120,700	127,000	126,000	120,900	97,700	75,640
8	50,210	62,630	76,270	91,300	106,900	118,400	120,900	128,200	126,300	120,400	97,300	74,730
9	50,160	63,000	76,750	91,800	107,400	118,400	121,300	128,200	125,900	119,800	96,300	73,760
10	50,470	63,450	77,150	92,300	107,900	118,400	121,600	128,800	125,600	119,600	95,400	72,680
11	53,830	63,980	77,670	91,790	108,400	118,400	122,100	128,700	126,200	119,000	94,600	71,790
12	51,210	64,510	78,190	93,330	108,500	118,400	122,300	128,900	126,700	118,400	93,600	71,190
13	52,000	64,710	78,640	93,960	109,200	118,400	122,700	128,400	125,500	117,700	92,800	70,380
14	52,500	65,110	79,200	94,590	109,600	118,400	122,800	128,200	125,500	117,100	92,100	69,680
15	52,870	65,640	79,810	95,260	110,100	118,400	123,300	127,900	125,400	116,100	91,400	69,580
16	53,230	66,080	80,260	95,520	110,500	118,300	123,600	128,000	125,500	115,700	91,300	68,990
17	53,590	66,390	80,760	96,000	111,100	118,200	123,800	128,200	125,200	114,900	90,600	68,430
18	54,180	66,790	81,290	96,450	111,600	118,200	124,000	128,300	125,200	114,300	90,000	68,020
19	54,660	67,270	81,820	96,920	112,100	118,200	124,400	128,300	125,100	113,800	89,200	67,710
20	54,940	67,780	82,320	97,700	112,500	118,200	124,700	128,700	125,000	113,100	88,400	67,370
21	55,330	68,090	83,100	97,910	113,000	118,200	124,900	128,300	125,300	112,100	87,700	67,240
22	55,750	68,500	83,480	98,640	113,600	117,900	125,300	128,400	125,300	111,300	87,100	67,270
23	56,150	68,740	83,870	99,160	114,100	117,900	125,500	129,700	125,200	110,200	86,600	68,060
24	56,640	69,060	84,380	99,640	114,500	118,100	125,800	129,400	125,300	109,400	86,500	68,300
25	56,790	69,650	84,890	100,100	114,900	118,100	126,400	129,100	124,900	108,500	85,800	68,570
26	57,100	70,010	85,400	100,600	115,300	118,100	126,700	128,600	124,800	107,700	85,200	68,780
27	57,500	70,730	85,910	100,800	116,000	118,100	126,900	128,000	124,700	106,900	84,800	68,950
28	57,920	71,360	86,380	100,900	116,500	118,700	127,300	128,100	124,700	106,100	84,200	68,920
29	58,280	71,860	86,740	101,500	116,900	118,700	127,700	127,700	124,500	105,500	83,500	68,950
30	58,690	72,290	87,180	101,900	-----	118,800	127,500	127,700	124,100	104,900	83,000	68,880
31	59,070	-----	87,650	102,400	-----	118,800	-----	127,400	-----	103,800	82,300	-----
MAX	59,070	72,290	87,650	102,400	116,900	118,800	127,700	129,700	127,100	123,800	103,300	84,490
MIN	48,040	59,450	72,710	88,140	103,000	117,700	118,900	127,000	124,100	103,800	82,300	67,240
CHANGE	-9,360	13,220	15,360	14,750	14,500	1,900	8,700	-100	-3,300	-20,300	-21,500	-13,420
CAL YEAR 2003			MEAN	99,849	MAX	135,000	MIN	12,200				
WTR YEAR 2004			MEAN	98,185	MAX	129,700	MIN	48,040				

# PLATTE RIVER BASIN ( LOUP RIVER )

MIRDAN CANAL from Calamus Reservoir, 00100500 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	228	319	428	522
2								0	198	319	503	558
3								1.9	182	290	539	560
4								12	181	287	540	518
5								0	183	276	526	508
6								0	184	262	503	507
7								0	185	269	444	510
8								0	186	309	426	516
9								0	189	343	453	533
10								0	191	379	483	510
11								0	184	384	479	454
12								12	180	455	474	442
13								26	179	440	438	447
14								36	189	391	352	433
15								37	198	362	328	371
16								35	196	349	353	323
17								31	192	340	390	275
18								34	184	336	402	227
19								36	179	412	425	213
20								41	177	471	409	213
21								45	177	509	359	176
22								49	177	524	344	118
23								198	182	481	418	29
24								324	190	430	406	0
25								331	207	414	353	0
26								302	224	417	316	0
27								249	228	452	310	0
28								229	228	477	313	0
29								228	274	476	318	0
30								227	313	476	420	0
31		-----			-----		-----	226	-----	438	484	-----
TOTAL								2,709.9	5,965	12,087	12,936	8,963
MEAN								87.4	199	390	417	299
MAX								331	313	524	540	560
MIN								0	177	262	310	0
AC-FT								5,380	11,830	23,970	25,660	17,780
CAL YEAR 2003	MAX	636	MIN	0	AC-FT	105,800						
WTR YEAR 2004	MAX	560	MIN	0	AC-FT	84,620						

## ( LOUP RIVER )

## CALAMUS FISH HATCHERY INLET from Calamus Reservoir, 00019800 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	2.6	5.6	5.5	5.6	6.0	5.3	6.9	6.4	18	16	16
2	11	3.6	5.5	5.8	5.4	6.1	5.3	6.9	6.4	18	16	16
3	12	5.6	5.6	5.7	5.6	6.0	5.1	7.6	6.6	18	16	17
4	9.4	5.4	5.6	5.6	5.4	6.0	5.1	11	6.6	18	15	17
5	8.1	5.6	5.6	5.5	5.7	6.1	4.8	15	6.7	17	15	17
6	11	5.6	5.5	5.8	5.6	6.0	7.5	16	7.0	16	15	17
7	14	5.7	5.5	5.9	5.7	6.0	21	17	6.6	18	15	16
8	14	5.4	5.5	5.8	5.7	6.1	15	16	14	15	15	20
9	13	5.5	5.5	5.7	5.4	6.2	14	10	16	15	14	19
10	12	5.5	5.4	5.7	5.7	6.1	14	11	14	14	13	17
11	15	5.4	5.4	5.8	5.7	6.2	14	9.8	14	14	13	16
12	16	5.5	5.5	5.7	5.7	6.1	12	8.4	14	15	13	16
13	12	5.5	5.6	5.7	5.6	6.0	8.2	7.9	13	15	14	17
14	11	5.7	5.5	5.8	5.8	6.0	5.9	8.2	13	17	14	18
15	11	5.7	5.5	5.7	5.7	6.2	11	8.6	11	20	14	18
16	11	5.6	5.0	5.8	5.3	6.1	15	8.3	10	18	13	16
17	11	5.8	5.6	5.8	5.8	6.1	6.5	7.3	11	18	13	16
18	11	5.7	5.5	5.8	5.9	6.2	12	5.6	11	17	13	16
19	11	5.7	5.7	5.8	5.9	6.1	18	5.4	11	19	14	16
20	11	5.6	5.6	5.9	5.6	6.2	20	5.0	11	21	14	16
21	11	5.7	5.6	5.3	5.8	6.4	11	5.3	11	20	14	17
22	10	5.7	5.6	5.4	5.9	11	7.9	6.4	12	20	11	19
23	9.6	5.6	5.5	5.2	6.0	14	8.1	5.7	14	19	16	22
24	8.1	5.5	5.4	5.1	6.1	12	8.0	5.7	16	17	18	19
25	8.0	5.6	5.7	5.2	6.0	12	8.0	5.2	16	16	17	18
26	7.8	5.6	5.5	5.2	5.9	10	7.6	5.2	16	15	17	18
27	7.8	5.4	5.6	5.2	6.0	7.0	7.1	5.6	15	14	17	17
28	2.5	5.6	5.6	5.4	6.0	6.5	8.0	5.4	14	15	17	15
29	2.5	5.6	5.6	5.2	5.8	6.5	6.8	5.0	12	18	17	15
30	2.5	5.5	5.7	5.4	-----	5.7	6.9	5.4	12	18	17	14
31	2.5	-----	5.7	.50	-----	5.2	-----	5.3	-----	17	-----	-----
TOTAL	307.8	162.5	171.7	167.90	166.3	218.1	299.1	252.1	347.3	530	463	511
MEAN	9.93	5.42	5.54	5.42	5.73	7.04	9.97	8.13	11.6	17.1	14.9	17.0
MAX	16	5.8	5.7	5.9	6.1	14	21	17	16	21	18	22
MIN	2.5	2.6	5.0	.50	5.3	5.2	4.8	5.0	6.4	14	11	14
AC-FT	611	322	341	333	330	433	593	500	689	1,050	918	1,010
CAL YEAR 2003	TOTAL	3,526.30	MEAN	9.66	MAX	18	MIN	0	AC-FT	6,990		
WTR YEAR 2004	TOTAL	3,596.80	MEAN	9.83	MAX	22	MIN	.50	AC-FT	7,130		

# PLATTE RIVER BASIN ( LOUP RIVER )

INLET TO DAVIS CREEK RESERVOIR from Mirdan Canal, 00088500 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	226	241	162	42	59
2							0	228	242	142	44	107
3							0	229	243	158	27	119
4							0	227	239	166	16	155
5							0	227	234	168	17	203
6							0	226	231	171	20	202
7							0	232	228	172	57	189
8							0	236	226	166	90	173
9							0	237	229	165	74	166
10							0	238	233	156	48	166
11							0	236	235	148	41	187
12							0	235	236	134	42	201
13							0	236	235	113	47	184
14							0	235	234	102	56	182
15							0	235	234	104	65	211
16							0	239	233	107	46	239
17							1.2	243	235	111	28	213
18							58	242	236	111	24	156
19							63	240	237	91	27	130
20							105	240	237	46	30	105
21							136	239	237	31	37	73
22							153	239	237	30	43	79
23							214	238	236	36	38	69
24							224	241	235	56	39	51
25							217	241	233	73	63	50
26							220	241	229	72	94	48
27							225	240	228	62	109	46
28							225	239	207	55	107	37
29							225	236	173	58	103	31
30					-----		226	240	163	49	59	26
31		-----			-----		241	241	-----	40	27	-----
TOTAL							2,292.2	7,322	6,876	3,255	1,560	3,857
MEAN							76.4	236	229	105	50.3	129
MAX							226	243	243	172	109	239
MIN							0	226	163	30	16	26
AC-FT							4,550	14,520	13,640	6,460	3,090	7,650
CAL YEAR 2003	MAX	252	MIN	0	AC-FT	61,250						
WTR YEAR 2004	MAX	243	MIN	0	AC-FT	49,910						

( LOUP RIVER )

DAVIS CREEK RESERVOIR from Calamus Reservoir via Mirdan Canal, 06789400 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,970	10,700	10,390	10,100	9,840	9,720	9,430	13,910	24,320	30,890	24,520	9,250
2	10,970	10,690	10,380	10,900	9,830	9,710	9,420	14,270	24,600	30,660	23,940	8,740
3	10,960	10,680	10,370	10,080	9,820	9,700	9,400	14,500	24,900	30,490	23,230	8,330
4	10,940	10,670	10,370	10,070	9,820	9,700	9,390	14,950	25,210	30,470	22,420	7,890
5	10,930	10,660	10,360	10,060	9,830	9,700	9,380	15,420	25,520	30,330	21,610	7,740
6	11,480	10,650	10,340	10,050	9,820	9,690	9,370	15,900	25,870	30,300	20,880	7,640
7	10,920	10,640	10,330	10,040	9,810	9,680	9,360	16,270	26,080	30,360	20,190	7,620
8	10,910	10,630	10,320	10,040	9,810	9,670	9,350	16,670	26,350	30,370	19,710	7,560
9	10,900	10,620	10,310	10,030	9,800	9,650	9,340	17,010	2,663	30,370	19,270	7,480
10	10,900	10,610	10,300	10,020	9,790	9,640	9,320	17,430	26,890	30,480	18,730	7,420
11	10,900	10,600	10,290	10,010	9,780	9,630	9,320	17,930	27,210	30,610	18,210	7,440
12	10,900	10,590	10,270	10,000	9,770	9,610	9,310	18,150	27,470	30,760	17,530	7,530
13	10,900	10,580	10,260	10,000	9,760	9,610	9,300	18,460	27,740	30,840	17,000	7,640
14	10,900	10,560	10,250	10,000	9,750	9,600	9,280	18,780	28,030	30,850	16,540	7,710
15	10,870	10,550	10,250	9,990	9,740	9,690	9,270	19,040	28,290	30,830	16,260	7,910
16	10,860	10,540	10,240	9,980	9,730	9,580	9,260	19,350	28,590	30,840	15,920	8,170
17	10,850	10,530	10,240	9,970	9,720	9,570	9,280	19,720	28,840	30,810	15,380	8,530
18	10,840	10,520	10,230	9,960	9,710	9,560	9,330	20,020	29,130	30,810	14,800	8,720
19	10,840	10,510	10,220	9,940	9,710	9,550	9,380	20,330	29,370	30,780	14,120	8,880
20	10,830	10,500	10,210	9,930	9,710	9,540	9,550	20,640	29,630	30,500	13,440	8,980
21	10,830	10,490	10,200	9,930	9,700	9,530	9,780	20,930	30,000	29,960	12,810	9,010
22	10,820	10,470	10,190	9,920	9,700	9,510	10,040	21,230	30,210	29,270	12,370	9,010
23	10,810	10,460	10,180	9,910	9,690	9,510	10,380	21,560	30,470	28,830	11,950	9,330
24	10,790	10,450	10,170	9,910	9,680	9,500	10,750	21,840	30,620	28,260	11,430	9,430
25	10,780	10,440	10,160	9,910	9,670	9,490	11,140	22,150	30,740	27,990	10,990	9,500
26	10,760	10,440	10,150	9,910	9,660	9,490	11,670	22,440	30,910	27,660	10,760	9,580
27	10,730	10,430	10,140	9,890	9,650	9,480	12,070	22,780	31,040	27,270	10,640	9,670
28	10,720	10,420	10,140	9,870	9,650	9,490	12,480	23,050	31,120	26,750	10,570	9,750
29	10,720	10,410	10,130	9,860	9,680	9,490	12,910	23,340	31,100	26,070	10,470	9,810
30	10,700	10,400	10,120	9,850	-----	9,470	13,400	23,760	31,010	25,450	10,340	9,860
31	10,700	-----	10,110	9,840	-----	9,450	-----	24,040	-----	25,080	9,840	-----
MAX	11,480	10,700	10,390	10,900	9,840	9,720	13,400	24,040	31,120	30,890	24,520	9,860
MIN	10,700	10,400	10,110	9,840	9,650	9,450	9,260	13,910	2,663	25,080	9,840	7,420
CHANGE	-5,320	-300	-290	-270	-160	-230	3,950	10,640	6,970	-5,930	-15,240	20.0

CAL YEAR 2003		MEAN	13,626	MAX	31,700	MIN	5,910
WTR YEAR 2004		MEAN	14,342	MAX	31,120	MIN	2,663

# PLATTE RIVER BASIN ( LOUP RIVER )

FULLERTON CANAL from Davis Creek Reservoir, 00054700 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	58	221	325	321
2								0	59	226	373	323
3								0	60	165	402	326
4								0	61	179	400	268
5								0	61	211	389	249
6								0	62	127	359	231
7								0	62	116	320	210
8								0	61	146	309	206
9								0	60	99	309	200
10								0	60	62	310	185
11								7.4	59	62	310	156
12								28	59	69	308	146
13								45	59	79	306	147
14								55	60	79	238	148
15								59	64	80	232	104
16								61	64	79	288	74
17								57	63	79	323	71
18								56	63	86	352	69
19								59	63	173	361	70
20								60	63	272	354	70
21								60	64	308	283	70
22								61	76	280	274	18
23								60	101	240	313	0
24								61	117	223	282	0
25								62	116	213	203	0
26								61	119	231	160	0
27								59	140	276	152	0
28								59	167	308	153	0
29								59	174	312	161	0
30					-----			58	189	314	262	0
31		-----			-----		-----	59	-----	313	313	-----
TOTAL								1,146.4	2,484	5,628	9,124	3,662
MEAN								37.0	82.8	182	294	122
MAX								62	189	314	402	326
MIN								0	58	62	152	0
AC-FT								2,270	4,930	11,160	18,100	7,260
CAL YEAR 2003	MAX	381	MIN	0	AC-FT	48,400						
WTR YEAR 2004	MAX	402	MIN	0	AC-FT	43,730						



## ( LOUP RIVER )

## CALAMUS RIVER near Burwell, 06787500 - 2004

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 586 cubic feet per second March 2, gage height 3.72 feet; minimum daily discharge 22 cubic feet per second January 21 & 22.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	291	98	66	58	38	205	212	205	226	259	231	208
2	291	98	66	57	41	315	189	207	206	264	231	205
3	259	96	65	56	45	259	161	206	204	244	229	200
4	166	97	66	57	44	258	149	213	204	235	229	200
5	162	96	65	56E	44	271	151	206	204	240	225	203
6	156	95	67	56E	46	307	165	209	205	242	223	212
7	118	95	65	60	42E	307	148	212	205	241	224	225
8	117	97	63	56	48	306	134	211	205	244	224	222
9	115	97	62	55	49	307	131	212	205	241	224	212
10	114	96	60E	55	51	308	131	218	207	241	226	198
11	111	95	68	53	57	303	132	214	180	242	229	197
12	111	96	67	53	54E	298	131	250	164	245	227	204
13	110	96	67	53	61	299	125	235	164	237	225	207
14	110	95	66	53	62	298	141	213	161	247	226	209
15	110	95	65	52	64	304	156	206	157	250	227	230
16	109	96	63	52	66	304	148	206	149	250	236	245
17	108	96	63	51	67	290	130	213	140	244	239	254
18	107	94	62	51	67	284	118	212	135	235	242	253
19	107	94	63	40	66	285	113	212	131	226	239	244
20	108	93	64	24	68	285	105	220	129	223	241	250
21	109	92	64	22	69	288	93	218	130	230	228	236
22	106	92	64	22	69	290	80	228	127	226	221	240
23	107	92	62	34	74	301	71	277	119	225	228	264
24	105	76	62	50	78	288	62	264	112	227	239	273
25	105	63	62	52	79	288	59	249	111	228	243	270
26	106	62	62	48E	93	287	154	224	112	232	229	275
27	107	63	60	42E	120	287	160	216	113	231	222	280
28	89	63	60	40E	141	285	183	209	119	228	224	293
29	97	64	60	40E	145	272	210	206	191	240	219	269
30	97	65	59	38E	-----	252	205	248	212	246	215	255
31	97	-----	58	36E	-----	231	-----	226	-----	236	210	-----
TOTAL	4,005	2,647	1,966	1,472	1,948	8,862	4,147	6,845	4,927	7,399	7,075	7,033
MEAN	129	88.2	63.4	47.5	67.2	286	138	221	164	239	228	234
MAX	291	98	68	60	145	315	212	277	226	264	243	293
MIN	89	62	58	22	38	205	59	205	111	223	210	197
AC-FT	7,940	5,250	3,900	2,920	3,860	17,580	8,230	13,580	9,770	14,680	14,030	13,950
CAL YEAR 2003 TOTAL		75,879	MEAN	208	MAX	613	MIN	28	AC-FT	150,500		
WTR YEAR 2004 TOTAL		58,326	MEAN	159	MAX	315	MIN	22	AC-FT	115,700		

E indicates estimated discharge.

# PLATTE RIVER BASIN ( LOUP RIVER )

**BURWELL-SUMTER CANAL from North Loup River, 00108000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	45	32	54	115	107
2							0	47	32	54	116	101
3							0	49	32	52	123	94
4							0	51	32	52	121	93
5							0	56	31	53	119	94
6							0	57	31	59	118	98
7							0	58	36	59	119	102
8							0	58	42	61	119	98
9							0	59	41	69	117	104
10							0	61	42	88	117	96
11							0	60	42	86	123	92
12							0	58	41	103	120	90
13							0	53	43	108	123	88
14							0	50	42	112	119	77
15							0	53	42	112	110	58
16							0	52	37	110	109	45
17							0	49	30	108	108	40
18							0	40	35	110	109	39
19							0	41	36	109	105	38
20							0	41	37	111	107	42
21							0	40	37	112	106	41
22							0	42	31	112	106	44
23							0	35	32	110	106	11
24							0	33	37	113	113	0
25							0	39	43	113	113	0
26							35	40	44	112	108	0
27							73	40	45	111	107	0
28							31	39	48	118	106	0
29							38	38	54	120	106	0
30					-----		44	35	55	117	102	0
31		-----			-----		-----	32	-----	117	101	-----
TOTAL							221	1,451	1,162	2,925	3,491	1,692
MEAN							7.37	46.8	38.7	94.4	113	56.4
MAX							73	61	55	120	123	107
MIN							0	32	30	52	101	0
AC-FT							438	2,880	2,300	5,800	6,920	3,360
CAL YEAR 2003	MAX	119	MIN	0	AC-FT	20,320						
WTR YEAR 2004	MAX	123	MIN	0	AC-FT	21,700						

## ( LOUP RIVER )

## NORTH LOUP RIVER at Ord, 06788500 - 2004

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 records 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 3,410 cubic feet per second May 23, gage height 3.60 feet; maximum gage height 4.06 feet February 22 due to backwater from ice; minimum daily discharge 357 cubic feet per second May 9.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,040	754	831	703	580E	968	874	520	719	897	554	444
2	1,040	759	785	730	600E	1,120	852	490	692	972	500	438
3	1,050	868	757	740	580E	1,160	811	457	598	951	469	419
4	893	828	741	400E	560E	1,060	786	421	577	885	456	396
5	836	764	741	370E	560E	1,050	738	359	581	895	438	405
6	810	745	679	410E	580E	984	735	397	562	828	443	427
7	737	692	650	440E	560E	904	731	378	556	861	462	487
8	750	691	713	470E	540E	915	699	368	641	901	460	479
9	789	709	735	490E	560E	935	718	357	767	827	437	444
10	815	716	625	520E	580E	956	950	407	598	657	424	420
11	950	695	483	540E	600E	969	944	416	645	802	456	386
12	941	715	620E	580E	600E	1,000	870	389	615	803	509	378
13	874	742	660E	580E	580E	1,020	828	408	674	632	493	399
14	786	739	680E	600E	580E	983	781	429	616	608	469	528
15	776	717	680E	620E	580E	1,000	776	413	546	611	460	895
16	796	693	700E	620E	600E	980	743	448	595	598	512	860
17	837	719	700E	600E	620E	1,030	628	475	615	597	578	836
18	795	719	720E	620E	640E	1,050	574	516	596	564	611	781
19	805	761	740E	580E	680E	1,030	563	470	623	504	576	732
20	816	737	760E	560E	700E	1,010	555	417	649	442	563	722
21	826	725	766	580E	740E	976	540	464	747	442	560	725
22	826	710	833	600E	800E	1,010	538	455	698	562	496	1,160
23	851	600E	847	600E	900E	969	545	1,390	556	469	497	2,380
24	836	480E	807	620E	1,000E	958	615	1,170	523	487	589	1,670
25	839	500E	786	580E	1,240E	991	771	1,030	504	478	593	1,450
26	782	620E	778	540E	1,100E	966	626	921	503	489	539	1,280
27	741	680E	766	440E	800E	1,060	587	740	525	454	481	1,270
28	726	700E	770	390E	727	1,100	583	653	536	472	493	1,230
29	737	760E	724	460E	755	1,140	543	614	656	522	508	1,200
30	765	868	704	500E	-----	963	539	804	724	642	481	1,110
31	764	-----	709	540E	-----	895	-----	919	-----	599	475	-----
TOTAL	25,829	21,406	22,490	17,023	19,942	31,152	21,043	17,695	18,437	20,451	15,582	24,351
MEAN	833	714	725	549	688	1,005	701	571	615	660	503	812
MAX	1,050	868	847	740	1,240	1,160	950	1,390	767	972	611	2,380
MIN	726	480	483	370	540	895	538	357	503	442	424	378
AC-FT	51,230	42,460	44,610	33,770	39,550	61,790	41,740	35,100	36,570	40,560	30,910	48,300
CAL YEAR 2003 TOTAL		280,461	MEAN	768	MAX	1,640	MIN	428	AC-FT	556,300		
WTR YEAR 2004 TOTAL		255,401	MEAN	698	MAX	2,380	MIN	357	AC-FT	506,600		

E indicates estimated discharge.

# PLATTE RIVER BASIN ( LOUP RIVER )

ORD-NORTH LOUP CANAL from North Loup River, 00109000 - 2004

LOCATION.--NW1/4NE1/4 Sec. 36-14-19 W. near Ord

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1939 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	24	49	118	83
2								0	30	52	119	89
3								0	29	50	121	96
4								0	30	50	118	97
5								0	30	51	117	97
6								0	33	50	118	95
7								0	27	56	119	90
8								0	27	62	118	88
9								0	27	62	115	91
10								1.7	28	65	115	95
11								26	29	70	116	98
12								26	28	82	117	103
13								5.9	36	67	114	103
14								10	31	66	118	100
15								12	28	66	117	85
16								18	28	65	112	77
17								23	28	68	102	81
18								26	27	72	103	84
19								27	28	85	102	88
20								27	28	102	103	54
21								29	29	122	104	0
22								28	29	127	106	0
23								33	30	124	103	0
24								23	34	129	106	0
25								27	35	130	100	0
26								28	35	126	87	0
27								27	36	124	83	0
28								27	37	124	85	0
29								29	45	119	86	0
30					-----			31	41	123	84	0
31		-----			-----		-----	26	-----	117	84	-----
TOTAL								510.6	927	2,655	3,310	1,794
MEAN								16.5	30.9	85.6	107	59.8
MAX								33	45	130	121	103
MIN								0	24	49	83	0
AC-FT								1,010	1,840	5,270	6,570	3,560
CAL YEAR 2003	MAX	124	MIN	0	AC-FT	16,910						
WTR YEAR 2004	MAX	130	MIN	0	AC-FT	18,240						

## ( LOUP RIVER )

## MIRA CREEK near North Loup, 06788988 - 2004

LOCATION.--NW1/4SE1/4 Sec. 27-18-13 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 good, except estimated records are poor.

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 45 cubic feet per second September 23, gage height 1.92 feet; minimum daily discharge 0.98 cubic feet per second October 10.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.1	1.9	1.9	1.7E	31	4.1	3.2	23	8.7	11	13
2	2.0	1.1	1.9	2.0	1.9E	16	4.1	2.8	18	9.4	11	14
3	1.9	4.8	1.9	1.9E	2.3E	14	4.4	2.8	14	12	12	14
4	1.7	4.3	1.9	1.8E	2.1	15	3.9	2.4	12	12	14	14
5	1.6	4.1	2.1	1.9E	2.2	15	3.5	2.3	10	13	14	15
6	1.3	3.2	1.7	2.0E	2.6	13	3.3	2.0	8.9	15	15	17
7	1.3	2.7	1.8	2.1E	2.6	11	3.2	1.9	8.0	16	16	15
8	1.2	2.4	1.8	2.0E	2.6	10	2.8	1.9	7.6	16	16	13
9	1.1	2.2	1.7	1.9E	2.7	8.8	2.8	1.7	7.8	14	15	12
10	.98	2.1	1.8	2.0E	2.8	8.1	3.5	3.3	7.2	12	16	10
11	13	1.9	1.8	2.1E	2.6	6.8	3.5	2.4	7.2	11	18	10
12	6.9	1.9	1.8	2.3E	2.8	5.8	3.5	2.1	7.1	10	19	11
13	3.6	1.9	1.8	2.5E	3.1	5.3	3.2	2.4	6.6	14	19	10
14	2.1	1.6	1.7	2.7E	3.1	5.2	2.8	2.2	6.2	15	20	11
15	1.7	1.5	1.7	2.5E	3.5	5.2	3.1	2.2	5.6	13	18	22
16	1.7	1.5	1.5	2.3E	3.8	5.2	2.7	3.0	19	12	16	36
17	1.6	1.4	1.7	2.1E	3.9	4.8	2.4	7.4	27	11	16	28
18	1.7	1.4	1.5	2.0E	4.0	4.5	2.4	17	25	9.8	16	20
19	1.5	1.4	1.4	2.0E	8.4	4.3	3.3	18	20	9.3	17	15
20	1.4	1.4	1.5	1.9E	13	4.3	2.9	15	17	9.1	19	13
21	1.4	1.4	1.5	1.8E	19	4.2	3.3	12	15	9.4	19	10
22	1.2	1.4	1.5	1.9E	12	4.0	3.4	11	13	11	17	11
23	1.4	1.7	1.8	2.0E	11	3.9	3.6	10	12	13	16	35
24	1.4	1.7	1.6	1.8E	10	3.5	5.0	9.6	11	13	18	35
25	1.4	1.8	1.9	1.7E	9.4	3.3	7.5	9.2	10	12	19	26
26	1.4	1.8	1.7	1.6E	7.0	3.3	6.0	13	10	12	20	18
27	1.4	1.8	1.9	1.5E	6.7	3.6	4.9	11	9.3	13	19	13
28	1.4	1.8	1.6	1.5E	6.6	5.7	5.2	9.6	8.6	13	17	9.8
29	1.1	1.8	1.7	1.6E	8.0	5.0	3.7	8.7	8.4	12	14	8.2
30	1.1	1.9	1.7	1.6E	-----	4.3	3.6	12	8.9	12	12	6.9
31	1.1	-----	1.8	1.7E	-----	4.1	-----	27	-----	11	11	-----
TOTAL	64.68	61.0	53.6	60.6	161.4	238.2	111.6	229.1	363.4	373.7	500	485.9
MEAN	2.09	2.03	1.73	1.95	5.57	7.68	3.72	7.39	12.1	12.1	16.1	16.2
MAX	13	4.8	2.1	2.7	19	31	7.5	27	27	16	20	36
MIN	.98	1.1	1.4	1.5	1.7	3.3	2.4	1.7	5.6	8.7	11	6.9
AC-FT	128	121	106	120	320	472	221	454	721	741	992	964
CAL YEAR 2003	TOTAL	3,131.98	MEAN	8.58	MAX	431	MIN	.98	AC-FT	6,210		
WTR YEAR 2004	TOTAL	2,703.18	MEAN	7.39	MAX	36	MIN	.98	AC-FT	5,360		

E indicates estimated discharge.

# PLATTE RIVER BASIN ( LOUP RIVER )

## CEDAR RIVER near Spalding, 06791500 - 2004

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 313 cubic feet per second September 23, gage height 4.14 feet; maximum gage height 4.81 feet February 18 due to backwater from ice conditions; minimum daily discharge 109 cubic feet per second August 7.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	145	155E	152	140E	283	164	187	184	137	119	119
2	138	147	150E	154	150E	277	163	172	167	146	117	119
3	138	194	153E	151	150E	250	163	135	161	173	129	113
4	137	182	155	151	155E	237	161	115	156	145	136	115
5	139	158	151	140E	155E	237	164	114	156	162	135	125
6	137	151	155	120E	160E	225	163	125	129	186	123	124
7	141	151	160	115E	160E	217	161	125	131	159	109	116
8	142	148	160	125E	165E	208	147	119	155	168	138	126
9	143	148	156	140E	178E	207	133	125	162	162	134	123
10	143	147	150E	155E	165E	205	144	140	157	150	136	122
11	180	147	145E	160E	160E	193	157	134	152	143	135	125
12	183	146	145E	160E	155E	186	155	147	137	149	135	120
13	160	148	140E	155E	150E	186	154	137	131	193	137	115
14	153	153	140E	160E	150E	176	153	136	129	180	133	139
15	146	150E	145E	165E	155E	180	149	119	124	178	133	216
16	142	145E	150E	164E	155E	176	146	155	146	162	129	222
17	141	150E	160E	157	160E	172	125	140	157	150	125	176
18	141	150E	162	147	175E	171	129	158	159	142	127	159
19	142	155E	157	154	200E	167	125	159	158	136	125	153
20	141	155E	157	160	210E	161	162	144	157	137	128	144
21	138	150E	162	167	207	158	148	128	218	136	130	142
22	137	155E	163	149	201	158	166	169	180	135	133	183
23	139	145E	161	147	200	158	144	202	155	146	127	307
24	135	135E	159	150	188	158	170	218	146	150	132	278
25	130	140E	160	151	178	161	165	207	140	143	138	218
26	130	145E	161	150E	176	158	171	213	143	139	132	198
27	136	155E	169	140E	176	165	164	200	140	143	130	187
28	139	165E	165	135E	186	181	144	179	138	143	130	174
29	136	175E	160	130E	204	180	133	161	141	120	128	185
30	138	165E	158	130E	-----	169	158	184	143	125	121	172
31	138	-----	154	135E	-----	167	-----	170	-----	120	119	-----
TOTAL	4,419	4,600	4,818	4,569	4,964	5,927	4,581	4,817	4,552	4,658	4,003	4,815
MEAN	143	153	155	147	171	191	153	155	152	150	129	161
MAX	183	194	169	167	210	283	171	218	218	193	138	307
MIN	130	135	140	115	140	158	125	114	124	120	109	113
AC-FT	8,770	9,120	9,560	9,060	9,850	11,760	9,090	9,550	9,030	9,240	7,940	9,550
CAL YEAR 2003 TOTAL		57,111	MEAN	156	MAX	326	MIN	84	AC-FT	113,300		
WTR YEAR 2004 TOTAL		56,723	MEAN	155	MAX	307	MIN	109	AC-FT	112,500		

E indicates estimated discharge.

## ( LOUP RIVER )

## CEDAR RIVER near Fullerton, 06792000 - 2004

LOCATION.--SE1/4SE1/4 Sec. 33-17-6 W., Nance County, Lat. 41° 23' 41", Long. 98° 00' 13", on left upstream bank near county bridge, 3 miles northwest of Fullerton and 7.4 miles upstream from mouth.

DRAINAGE AREA.--1,220 square miles, of which about 480 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 1,638.39 feet above sea level.

PERIOD OF RECORD.--September 1931 - June 1932, October 1940 - present; non-recording gage before November 5, 1942.

REMARKS.--Record published by U. S. Geological Survey through Sep. 1995. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 64,700 cubic feet per second August 13, 1966, gage height 16.90 ft. (high point on surge); minimum daily discharge 30 cubic feet per second July 18, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharge 4,700 cubic feet per second June 16, gage height 6.64 feet; minimum daily discharge 57 cubic feet per second August 7.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	180	256	200E	175E	518	232	182	257	118	168	112
2	159	169	231	210E	180E	401	227	186	208	89	133	104
3	159	207	217	210E	185E	363	218	257	206	483	123	103
4	159	233	217	200E	180E	358	196	212	197	235	128	103
5	157	263	212	195E	185E	336	201	182	203	586	114	108
6	159	227	207	180E	185E	317	220	175	211	639	58	133
7	157	210	228	160E	185E	289	218	169	189	439	57	135
8	151	209	245	170E	180E	262	214	172	145	412	163	129
9	152	208	229	180E	170E	254	198	175	430	1,970	395	129
10	152	207	171	190E	158E	271	203	185	340	1,060	194	133
11	175	217	152	200E	170E	261	183	177	319	482	169	132
12	189	219	180E	205E	170E	227	181	246	595	387	168	133
13	198	208	200E	200E	165E	143	211	212	253	337	159	136
14	196	194	220E	210E	160E	188	214	189	197	418	162	141
15	186	178	225E	215E	165E	232	210	188	173	359	156	181
16	188	185	220E	215E	165E	262	191	174	1,780	259	153	219
17	188	183	210E	205E	170E	285	213	276	957	249	132	264
18	183	188	200E	200E	180E	196	190	355	459	239	118	246
19	182	190	190E	210E	205E	219	170	197	337	222	110	214
20	177	189	190E	220E	240E	230	185	210	257	196	107	192
21	171	190	195E	225E	270E	251	199	200	720	152	103	186
22	168	193	205E	220E	300E	231	250	404	513	202	109	208
23	159	170E	210E	210E	350E	232	195	759	292	199	119	585
24	169	155E	210E	200E	370E	223	232	439	175	183	140	458
25	168	157	205E	205E	390E	217	250	276	154	209	143	364
26	167	232	205E	205E	450E	222	235	307	144	200	132	355
27	170	263	215E	200E	500E	228	218	274	139	208	136	252
28	184	244	220E	185E	540E	238	242	273	139	207	143	223
29	189	253	220E	170E	570E	224	229	155	137	188	144	201
30	193	255	210E	160E	-----	249	211	1,150	145	191	135	211
31	192	-----	205E	170E	-----	247	-----	501	-----	183	119	-----
TOTAL	5,346	6,176	6,500	6,125	7,313	8,174	6,336	8,857	10,271	11,301	4,390	6,090
MEAN	172	206	210	198	252	264	211	286	342	365	142	203
MAX	198	263	256	225	570	518	250	1,150	1,780	1,970	395	585
MIN	149	155	152	160	158	143	170	155	137	89	57	103
AC-FT	10,600	12,250	12,890	12,150	14,510	16,210	12,570	17,570	20,370	22,420	8,710	12,080
CAL YEAR 2003 TOTAL		79,718	MEAN	218	MAX	626	MIN	56	AC-FT	158,100		
WTR YEAR 2004 TOTAL		86,879	MEAN	237	MAX	1,970	MIN	57	AC-FT	172,300		

E indicates estimated discharge.

# PLATTE RIVER BASIN ( LOUP RIVER )

## LOUP RIVER POWER CANAL RETURN at Columbus, 00082100 - 2004

LOCATION.--SE1/4SW1/4 Sec. 23-17-1 E., Platte County, Lat. 41° 25' 27", Long. 97° 16' 56", on the left bank 50 feet upstream from the 8th Street bridge over the power canal return near the southeast edge of Columbus, Nebraska.

GAGE.--Continuous stage recorder. Gage datum is 1,400.91 feet above sea level.

PERIOD OF RECORD.--October 1, 2002 - present

REMARKS.--Records are good except estimated records and records below 200 cubic feet per second are poor, and records between 200 and 1,000 cubic feet per second are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharge 4,100 cubic feet per second November 22, gage height 12.10 feet; minimum daily discharge 95 cubic feet per second January 7.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	890	1,570	1,580	512	516	1,100	1,660	1,390	2,250	1,220	716	1,150
2	920	2,010	1,760	1,250	772	1,420	1,780	1,470	2,230	1,570	979	932
3	1,550	1,600	1,450	259	937	1,670	1,650	1,290	2,020	1,690	1,010	976
4	1,700	1,370	1,680	104	1,140	1,790	2,240	1,690	1,860	1,820	879	770
5	1,440	1,440	771	102	1,180	1,840	1,780	1,310	1,820	1,790	866	854
6	1,370	2,120	139	98	1,440E	1,720	1,340E	1,000	1,630	2,260	758	747
7	1,450	2,380	203	95	1,530E	1,810	901E	1,300	1,730	2,260	927	904
8	1,300	2,630	137	105	1,540E	1,760	576E	1,350	1,450	2,410	756	929
9	1,570	1,940	121	493	1,630E	2,060	1,190E	999	1,510	2,750	1,390	1,250
10	1,230	2,430	136	697	1,750E	2,010	1,180E	1,330	1,560	2,600	617	1,100
11	1,780	2,090	150	1,030	1,810E	2,040	1,190E	1,480	2,040	2,420	1,240	1,080
12	1,530	2,260	100E	110	1,710E	1,980	1,190E	1,460	1,750	2,440	930	761
13	1,600	2,040	147	383	1,540E	2,020	1,240E	857	2,060	2,130	1,140	753
14	2,220	2,470	137	541	1,250E	1,820	1,190E	1,360	1,920	2,240	962	929
15	1,940	2,310	154	252	1,320E	1,860	1,220E	1,440	1,620	2,270	1,050	1,160
16	1,900	2,170	161	688	1,390E	2,070	1,220E	1,470	1,750	2,030	1,200	1,230
17	1,470	2,150	185	138	1,490E	2,000	1,210E	1,430	1,920	1,910	1,290	1,180
18	1,940	2,100	864	129	1,530E	2,010	1,180E	1,480	2,380	1,470	933	1,360
19	1,590	2,260	310	122	1,620E	1,860	1,170E	1,700	2,060	1,300	1,070	1,220
20	1,250	2,470	215	124	1,800E	2,020	1,310E	1,740	1,900	1,160	1,120	1,200
21	1,360	2,160	692	340	1,840E	1,910	1,430E	1,590	1,660	1,220	1,200	1,650
22	1,640	2,350	589	244	1,840E	2,160	1,440E	1,490	2,290	1,150	1,330	1,230
23	1,150	1,460	911	487	1,830E	1,950	1,440	1,930	2,180	1,480	1,300	1,300
24	1,620	157	412	187	1,930E	2,170	1,780	1,560	2,320	1,320	1,150	829
25	1,620	158	240	103	1,890	1,960	1,190	1,820	1,860	1,080	1,170	1,310
26	1,480	151	205	104	1,470	1,560	1,580	2,070	1,630	894	1,470	1,010
27	1,520	147	1,630	108	1,780	1,670	1,240	2,250	1,660	1,220	1,360	1,350
28	2,330	139	1,350	102	1,400	1,870	1,430	2,140	1,530	1,100	1,130	1,160
29	1,870	552	687	101	1,290	1,670	1,530	1,680	1,420	1,140	1,460	1,270
30	1,750	829	484	245	-----	1,520	1,440	1,900	1,430	1,080	1,200	1,590
31	1,340	-----	212	253	-----	1,600	-----	2,110	-----	1,050	1,210	-----
TOTAL	48,320	49,913	17,812	9,506	43,165	56,900	40,917	48,086	55,440	52,474	33,813	33,184
MEAN	1,559	1,664	575	307	1,488	1,835	1,364	1,551	1,848	1,693	1,091	1,106
MAX	2,330	2,630	1,760	1,250	1,930	2,170	2,240	2,250	2,380	2,750	1,470	1,650
MIN	890	139	100	95	516	1,100	576	857	1,420	894	617	747
AC-FT	95,840	99,000	35,330	18,860	85,620	112,900	81,160	95,380	110,000	104,100	67,070	65,820
CAL YEAR 2003 TOTAL		541,098	MEAN	1,482	MAX	3,340	MIN	99	AC-FT	1,073,000		
WTR YEAR 2004 TOTAL		489,530	MEAN	1,338	MAX	2,750	MIN	95	AC-FT	971,000		

E indicates estimated discharge.



## ( LOUP RIVER )

## BEAVER CREEK at Loretto, 06793500 - 2004

LOCATION.--NE1/4SE1/4 Sec. 26-21-7 W., Boone County, Lat. 41° 45' 50", Long. 98° 04' 50", on the left bank 5 feet downstream from county road bridge, at west end of Loretto.

DRAINAGE AREA.--311 square miles, approximately 100 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 1,785.95 feet above sea level.

PERIOD OF RECORD.--Oct. 1944 - Sep. 1953, Oct. 1979 - present

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 5,600 cubic feet per second August 29, 1993, gage height 11.88 feet; minimum daily discharge 12 cubic feet per second July 8, August 8, 9, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,330 cubic feet per second May 30, gage height 7.21 feet; minimum daily discharge 29 cubic feet per second September 3.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	44	54E	60	54E	175	68	50	118	53	44	31
2	39	45	54E	60	60E	205	65	49	82	53	41	32
3	39	53	52E	54E	60E	150	63	50	68	81	40	29
4	40	63	50E	45E	54E	128	62	49	61	73	40	30
5	41	54	47E	40E	54E	114	61	49	56	310	38	31
6	41	51	47E	40E	52E	111	59	48	61	182	40	32
7	41	50	52E	42E	50E	105	57	46	55	277	39	32
8	40	49	52E	44E	49E	96	55	46	51	282	39	33
9	41	49	45E	46E	50E	90	61	46	52	210	37	34E
10	41	49	37E	54E	56E	82	71	50	51	188	36	35E
11	44	50	45E	60E	60E	76	68	51	114	158	39	35E
12	53	49	57E	60E	52E	73	65	48	81	128	38	35E
13	49	49	58E	54E	46E	72	63	46	68	107	39	35E
14	48	49	60E	54E	45E	71	62	50	59	108	39	50E
15	49	49	56E	58E	45E	70	59	50	55	110	39	70E
16	48	49	60E	58E	48E	72	56	51	270	106	38	100E
17	50	50	60E	52E	56E	81	55	54	115	97	35	90E
18	50	50	62E	45E	64E	92	55	56	85	85	32	80E
19	50	49	62	45E	76E	88	52	57	79	77	32	70E
20	48	50	62	48E	80E	80	53	54	72	73	34	60E
21	46	49	65	56E	88E	74	62	53	69	68	36	68E
22	46	45E	63	56E	92E	72	59	527	64	68	35	100E
23	45	40E	54E	64E	98E	70	58	337	60	65	33	140E
24	43	37E	56E	60E	105	68	57	190	57	62	32	120E
25	43	40E	58E	54E	90	67	65	140	55	62	31	100E
26	43	54E	58E	50E	83	65	65	126	54	60	31	90E
27	44	52E	62	45E	80	67	59	111	54	56	31	80E
28	44	49E	63	45E	84	75	56	88	54	52	33	70E
29	44	54E	58E	45E	92	75	50	85	54	48	33	66E
30	44	56E	58E	48E	-----	70	49	620	54	48	34	60
31	43	-----	58E	50E	-----	69	-----	248	-----	47	31	-----
TOTAL	1,375	1,477	1,725	1,592	1,923	2,803	1,790	3,525	2,228	3,394	1,119	1,838
MEAN	44.4	49.2	55.6	51.4	66.3	90.4	59.7	114	74.3	109	36.1	61.3
MAX	53	63	65	64	105	205	71	620	270	310	44	140
MIN	38	37	37	40	45	65	49	46	51	47	31	29
AC-FT	2,730	2,930	3,420	3,160	3,810	5,560	3,550	6,990	4,420	6,730	2,220	3,650
CAL YEAR 2003 TOTAL		21,671	MEAN	59.4	MAX	234	MIN	21	AC-FT	42,980		
WTR YEAR 2004 TOTAL		24,789	MEAN	67.7	MAX	620	MIN	29	AC-FT	49,170		

E indicates estimated discharge.

# PLATTE RIVER BASIN ( ELKHORN RIVER )

**ELKHORN RIVER near Atkinson, 06796973 - 2004**

LOCATION.--SW1/4NW1/4 Sec. 13-29-14 W., Holt County, Lat. 42° 29' 12", Long. 98° 54' 42", on left bank 10 feet downstream from county road bridge, 4 miles southeast of Atkinson.

DRAINAGE AREA.--Undetermined.

GAGE.--Continuous stage recorder. Gage elevation approximately 2,042 feet above sea level from topographic map.

PERIOD OF RECORD.--1982 - present

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 4,060 cubic feet per second May 29, 1995, gage height 9.27 feet; minimum daily discharge 0.15 cubic feet per second August 31, 2000.

EXTREMES FOR CURRENT YEAR.--Peak discharge 68 cubic feet per second June 6, gage height 3.33 feet; maximum gage height 3.88 feet due to back water conditions from ice; minimum daily discharge 0.31 cubic feet per second September 13.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.72	.87	9.0E	6.8E	6.6E	39	23	18	40	11	1.9	.58
2	.74	.86	8.5	6.8E	6.4E	36	22	17	31	12	1.5	.43
3	.61	1.3	8.7	7.2E	6.6E	33	21	17	25	11	1.1	.42
4	.70	1.1	8.4E	7.2E	6.6E	32	21	18	22	14	1.6	.76
5	.83	.91	8.2E	6.8E	6.8E	30	21	18	32	15	1.2	2.9
6	.76	1.2	9.0E	6.6E	6.6E	28	21	17	63	15	.96	.85
7	.63	1.6	8.8E	6.4E	6.2E	25	20	15	50	15	.95	.37
8	.58	1.7	8.0E	6.8E	6.2E	24	20	14	35	16	.99	.62
9	.72	1.4	7.0E	6.6E	6.4E	24	18	14	27	16	1.1	.54
10	.72	1.8	6.0E	6.4E	7.0E	24	18	14	26	15	.82	.49
11	4.9	1.7	6.4E	6.2E	6.8E	22	19	13	29	14	1.0	.48
12	1.6	1.2	6.2E	6.0E	6.4E	21	20	12	27	12	.85	.41
13	.79	1.3	6.6E	6.2E	6.8E	21	20	11	24	9.9	.87	.31
14	.74	1.5	6.4E	6.6E	6.2E	21	20	12	22	8.5	.94	.42
15	.68	1.3	6.4E	7.2E	5.8E	22	20	13	20	7.8	.84	7.0
16	.75	2.9	6.2E	7.6E	6.0E	22	20	13	20	6.5	.89	2.1
17	.87	4.3	6.4E	7.2E	7.0E	24	19	14	19	5.1	1.2	1.3
18	1.1	5.9	6.6E	7.0E	8.0E	25	19	15	21	4.7	1.7	1.2
19	1.1	3.9	7.0E	6.6E	11 E	24	18	15	19	4.0	1.3	.90
20	1.1	4.0	6.6E	6.6E	15 E	23	23	14	20	3.3	1.2	.77
21	.77	3.5	6.8E	7.0E	22 E	21	26	14	21	5.6	1.1	.78
22	.91	3.8	6.8E	7.6E	30 E	20	24	16	20	2.7	1.1	3.0
23	.78	3.0 E	7.0E	8.0E	35 E	20	22	22	18	2.2	.95	8.8
24	.69	3.5 E	7.2E	7.6E	36 E	21	21	18	17	1.6	.90	4.5
25	.61	4.5 E	7.0E	7.4E	34 E	20	23	17	16	1.5	.62	3.2
26	1.1	6.0 E	6.6E	7.0E	32 E	20	22	17	15	1.3	.68	2.7
27	1.1	6.4 E	7.0E	7.2E	27	22	22	16	15	1.1	.57	2.3
28	.86	7.2 E	7.4E	7.0E	28	25	22	16	15	1.3	.80	2.2
29	.82	8.0 E	7.0E	6.8E	29	24	19	15	14	1.3	.67	2.6
30	.65	9.4 E	7.4E	7.2E	-----	23	18	38	13	1.3	.55	2.7
31	.72	-----	7.0E	6.8E	-----	23	-----	45	-----	1.2	.62	-----
TOTAL	29.65	96.04	223.6	214.4	417.4	759	622	528	736	236.9	31.47	55.63
MEAN	.96	3.20	7.21	6.92	14.4	24.5	20.7	17.0	24.5	7.64	1.02	1.85
MAX	4.9	9.4	9.0	8.0	36	39	26	45	63	16	1.9	8.8
MIN	.58	.86	6.0	6.0	5.8	20	18	11	13	1.1	.55	.31
AC-FT	59	190	444	425	828	1,510	1,230	1,050	1,460	470	62	110
CAL YEAR 2003 TOTAL		8,546.67	MEAN	23.4	MAX	274	MIN	.34	AC-FT	16,950		
WTR YEAR 2004 TOTAL		3,950.09	MEAN	10.8	MAX	63	MIN	.31	AC-FT	7,840		

E indicates estimated discharge.

## ( ELKHORN RIVER )

## SOUTH FORK ELKHORN RIVER near Ewing, 06798000 - 2004

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 good, 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 143 cubic feet per second on May 22, gage height 2.27 feet; maximum gage height 2.73 feet February 12 due to backwater from ice; minimum daily discharge 15 cubic feet per second August 25.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	34	45E	50E	35E	81	50	41	55	30	26	20
2	30	34	46E	52E	34E	73	43	40	60	37	27	19
3	27	31E	46E	45E	33E	69	43	40	54	36	29	19
4	26	30E	45E	35E	35E	70	41	37	46	47	29	20
5	24	31E	40E	30E	35E	66	39	38	85	56	27	20
6	24	32E	37E	31E	34E	56	38	37	66	61	26	22
7	23	34E	45E	35E	32E	49	37	37	51	58	26	21
8	24	37	50E	35E	33E	48	38	35	48	63	23	21
9	25	37	45E	38E	35E	49	47	33	50	52	22	21
10	26	35	40E	40E	36E	43	50	38	46	46	27	20
11	39	35	36E	40E	36E	42	51	36	41	42	30	20
12	35	32	35E	41E	36E	40	52	35	39	41	31	18
13	30	36	37E	40E	35E	39	47	39	37	54	29	16
14	31	36	42E	38E	34E	44	39	39	34	47	28	25
15	31	37	42E	40E	33E	55	36	36	32	43	25	56
16	36	38	44E	44E	32E	52	35	37	66	36	23	36
17	37	38	48E	44E	33E	60	34	39	54	37	23	26
18	32	38	50E	40E	35E	56	32	40	60	35	24	21
19	30	38	58E	37E	35E	51	34	38	61	35	23	20
20	27	37	64E	37E	37E	50	57	35	58	36	21	19
21	27	35E	68	40E	38E	47	63	44	50	36	20	20
22	27	32E	66	40E	40E	45	56	53	42	53	18	45
23	27	30E	62E	44E	44	47	50	98	37	44	18	85
24	27	28E	62E	44E	43	45	51	65	36	48	17	49
25	28	26E	62E	40E	38	41	54	59	33	45	15	39
26	31	28E	58E	35E	37	38	48	65	36	40	20	38
27	33	28E	58E	30E	38	44	47	60	40	36	18	34
28	31	27E	54E	30E	40	54	45	52	38	32	20	36
29	34	30E	50E	31E	54	51	44	44	35	34	23	35
30	34	35E	50E	33E	-----	55	45	68	32	32	22	33
31	32	-----	44E	35E	-----	54	-----	59	-----	28	21	-----
TOTAL	919	999	1,529	1,194	1,060	1,614	1,346	1,417	1,422	1,320	731	874
MEAN	29.6	33.3	49.3	38.5	36.6	52.1	44.9	45.7	47.4	42.6	23.6	29.1
MAX	39	38	68	52	54	81	63	98	85	63	31	85
MIN	23	26	35	30	32	38	32	33	32	28	15	16
AC-FT	1,820	1,980	3,030	2,370	2,100	3,200	2,670	2,810	2,820	2,620	1,450	1,730
CAL YEAR 2003	TOTAL	16,861	MEAN	46.2	MAX	182	MIN	15	AC-FT	33,440		
WTR YEAR 2004	TOTAL	14,425	MEAN	39.4	MAX	98	MIN	15	AC-FT	28,610		

E indicates estimated discharge.

## PLATTE RIVER BASIN ( ELKHORN RIVER )

**ELKHORN RIVER at Neligh, 06798500 - 2004**

LOCATION.--NW1/4SW1/4 Sec. 20-25-6 W., Antelope County, Lat. 42° 07' 23", Long. 98° 02' 37", on the left bank 30 feet downstream from the roadway on State Highway 14 at Neligh, NE.

DRAINAGE AREA.--2,200 square miles, approximately 1,200 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 1,717.50 feet above sea level.

PERIOD OF RECORD.--1930 - 1958, 1960 - present

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1993. 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 474 cubic feet per second May 24, gage height 3.53 feet; minimum daily discharge 38 cubic feet per second September 11.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	92	130E	120E	140E	394	237	215	257	139	114	54
2	80	94	120E	130E	135E	396	230	204	252	168	112	51
3	80	123	120E	100E	130E	374	228	194	241	186	113	47
4	79	104E	112E	90E	130E	365	218	182	232	192	110	44
5	79	92E	108E	96E	135E	346	213	178	232	209	100	51
6	80	98E	110E	110E	140E	311	210	166	247	257	97	49
7	78	98E	120E	110E	120E	285	207	152	197	271	93	48
8	77	92E	120E	110E	120E	271	201	147	217	254	91	45
9	76	100E	110E	120E	120E	256	216	143	257	262	86	43
10	79	118	96E	140E	125E	240	220	159	263	244	82	41
11	98	116	98E	160E	130E	219	215	153	265	207	84	38
12	110	115	108E	180E	120E	210	215	146	229	189	85	40
13	103	102E	102E	190E	120E	207	212	141	215	186	82	41
14	97	113	110E	190E	110E	198	210	136	172	197	82	69
15	99	117	110E	180E	110E	211	201	137	148	205	78	94
16	97	117	110E	180E	116E	215	199	141	171	232	74	113
17	93	115	125E	180E	120E	230	194	160	211	206	72	94
18	92	115	133E	150E	140E	261	191	188	224	179	78	90
19	91	112	150E	150E	120E	258	184	190	257	157	79	86
20	87	109	160E	160E	125E	247	206	184	247	145	75	83
21	85	109	160E	170E	130E	225	283	176	233	146	71	85
22	83	100E	150E	160E	140E	216	270	190	216	162	69	114
23	83	88E	140E	170E	180E	210	258	347	195	182	70	274
24	83	80E	150E	170E	252	206	254	438	183	160	68	219
25	88	86E	150E	150E	236	210	273	356	170	151	68	185
26	90	98E	155E	140E	256	211	271	286	166	145	65	171
27	94	110E	160E	130E	272	220	253	251	167	135	68	157
28	94	102E	145E	120E	296	253	243	227	162	128	66	145
29	93	120E	140E	120E	313	244	244	204	157	128	64	142
30	95	130E	130E	125E	-----	247	224	326	145	128	60	135
31	91	-----	120E	130E	-----	243	-----	274	-----	122	57	-----
TOTAL	2,734	3,165	3,952	4,431	4,581	7,979	6,780	6,391	6,328	5,672	2,513	2,848
MEAN	88.2	106	127	143	158	257	226	206	211	183	81.1	94.9
MAX	110	130	160	190	313	396	283	438	265	271	114	274
MIN	76	80	96	90	110	198	184	136	145	122	57	38
AC-FT	5,420	6,280	7,840	8,790	9,090	15,830	13,450	12,680	12,550	11,250	4,980	5,650

CAL YEAR 2003	TOTAL	66,319	MEAN	182	MAX	918	MIN	41	AC-FT	131,500
WTR YEAR 2004	TOTAL	57,374	MEAN	157	MAX	438	MIN	38	AC-FT	113,800

E indicates estimated discharge.

## ( ELKHORN RIVER )

## WILLOW CREEK near Foster, 06799080 - 2004

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 30 cubic feet per second March 1, gage height 4.88 feet; maximum gage height 5.44 feet February 11 due to backwater from ice conditions; minimum daily discharge 1.3 cubic feet per second September 2.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	7.3	8.4	9.2	7.2E	30E	13	12	15	9.4	4.8	1.6
2	5.6	7.5	7.6	9.3	7.0E	23E	13	11	14	11	4.7	1.3
3	5.7	9.7	7.3	9.0E	7.0E	21	12	11	14	12	5.3	1.9
4	5.7	9.6	7.4	7.0E	7.2E	19	12	11	13	11	4.9	2.2
5	5.6	8.5	6.8	6.0E	7.6E	19	12	9.9	12	14	4.3	2.5
6	5.6	8.4	6.6E	6.0E	7.0E	19	11	9.3	12	17	4.2	2.7
7	5.6	8.0E	8.0E	7.0E	7.0E	19	11	9.4	11	15	4.9	2.5
8	5.8	8.6E	7.6E	7.6E	7.0E	18	11	9.1	10	16	4.6	2.5
9	5.7	8.2E	7.0E	8.4E	7.6E	17	11	8.9	12	16	4.5	2.5
10	5.9	8.5	6.0E	9.0E	8.0E	16	11	9.2	13	14	4.2	2.5
11	7.2	8.5	5.6E	12 E	7.6E	15	12	9.3	19	13	4.2	2.4
12	6.9	8.0	5.6E	12 E	7.2E	15	12	9.4	22	12	4.4	2.5
13	6.6	8.1	5.8E	10 E	7.8E	15	12	9.7	21	12	4.1	2.6
14	6.7	8.1	6.4E	9.4E	7.2E	14	11	9.8	19	11	3.9	3.8
15	6.5	7.8	6.0E	11 E	7.0E	14	11	9.4	17	12	3.8	5.1
16	7.3	7.6	5.8E	10 E	7.4E	14	11	9.9	16	13	3.6	4.6
17	7.3	7.5	6.8E	9.0E	7.8E	15	10	10	15	11	3.4	3.7
18	7.0	7.1	12 E	8.4E	7.8E	19	10	10	15	10	2.8	3.5
19	6.8	7.1	11 E	8.0E	8.0E	18	10	9.5	14	9.6	2.9	3.3
20	6.9	7.1	10 E	7.4E	8.2E	17	12	9.4	14	8.9	3.4	3.2
21	7.1	6.8	9.0E	8.0E	8.2E	16	14	8.8	14	8.5	3.2	3.5
22	6.8	6.9	8.0E	9.0E	9.0E	15	13	9.5	13	7.7	3.2	4.3
23	6.8	6.6E	7.0E	8.2E	10 E	14	13	19	12	7.8	3.2	9.9
24	6.9	5.8E	7.0E	9.6E	10 E	14	14	16	11	7.8	3.2	8.0
25	6.7	5.6E	7.6E	9.0E	9.2E	13	16	16	11	7.3	3.1	6.5
26	6.9	6.2E	8.0E	8.0E	9.4E	13	15	15	11	6.2	2.6	6.7
27	7.2	6.6E	8.6E	7.0E	10 E	14	14	14	11	6.7	2.0	6.5
28	7.4	7.4E	7.6E	6.4E	12 E	16	13	13	11	6.7	2.7	6.6
29	7.3	9.0E	7.2E	6.4E	20 E	16	12	12	10	6.5	2.7	6.2
30	7.3	8.0E	7.8E	6.4E	-----	15	12	14	9.7	5.8	2.5	5.8
31	7.3	-----	8.0E	6.8E	-----	14	-----	14	-----	5.0	2.4	-----
TOTAL	203.6	230.1	233.5	260.5	246.4	517	364	348.5	411.7	323.9	113.7	120.9
MEAN	6.57	7.67	7.53	8.40	8.50	16.7	12.1	11.2	13.7	10.4	3.67	4.03
MAX	7.4	9.7	12	12	20	30	16	19	22	17	5.3	9.9
MIN	5.5	5.6	5.6	6.0	7.0	13	10	8.8	9.7	5.0	2.0	1.3
AC-FT	404	456	463	517	489	1,030	722	691	817	642	226	240
CAL YEAR 2003	TOTAL	3,921.00	MEAN	10.7	MAX	60	MIN	2.1	AC-FT	7,780		
WTR YEAR 2004	TOTAL	3,373.80	MEAN	9.22	MAX	30	MIN	1.3	AC-FT	6,690		

E indicates estimated discharge.

## PLATTE RIVER BASIN ( ELKHORN RIVER )

**WILLOW CREEK RESERVOIR from Willow Creek, 00410300 - 2004**

LOCATION.--NW1/4SE1/4 Sec. 33-26-2 W. near Pierce, Pierce County, Lat. 42° 10' 49", Long. 97° 33' 18", two miles southwest of Pierce.

DRAINAGE AREA.--210 square miles.

GAGE.--Continuous stage recorder. Gage datum is mean sea level.

PERIOD OF RECORD.--1983 - present

STORAGE LEVEL	ELEVATION (feet)	CONTENT (acre-feet)
Top of flood pool	1637.8	18,780
Top of conservation pool	1625.5	6,890
top of dead storage pool	1602.0	100

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,440	4,300	4,440	4,600	4,730	5,070	6,040	6,290	6,850	6,940	6,560	5,210
2	4,430	4,290	4,440	4,610	4,750	5,150	6,050	6,270	6,850	7,020	6,520	5,170
3	4,430	4,360	4,440	4,610	4,760	5,210	6,060	6,270	6,870	7,090	6,470	5,120
4	4,420	4,360	4,460	4,620	4,760	5,250	6,070	6,280	6,880	7,070	6,420	5,080
5	4,410	4,360	4,460	4,620	4,780	5,310	6,090	6,300	6,890	7,050	6,370	5,040
6	4,400	4,360	4,470	4,620	4,790	5,350	6,080	6,290	6,900	7,060	6,320	5,010
7	4,390	4,370	4,470	4,610	4,800	5,390	6,080	6,280	6,910	7,060	6,270	4,950
8	4,380	4,370	4,470	4,610	4,800	5,430	6,090	6,280	6,920	7,070	6,220	4,910
9	4,370	4,380	4,480	4,610	4,800	5,450	6,090	6,270	6,930	7,070	6,170	4,870
10	4,360	4,380	4,480	4,610	4,800	5,480	6,110	6,280	6,970	7,070	6,120	4,840
11	4,400	4,390	4,470	4,620	4,800	5,500	6,130	6,280	7,060	7,080	6,070	4,800
12	4,390	4,410	4,480	4,630	4,800	5,510	6,100	6,290	7,070	7,070	6,030	4,760
13	4,380	4,390	4,480	4,640	4,800	5,540	6,110	6,290	7,090	7,060	5,980	4,730
14	4,370	4,390	4,480	4,660	4,800	5,540	6,110	6,300	7,120	7,040	5,930	4,770
15	4,360	4,390	4,480	4,660	4,800	5,570	6,110	6,300	7,120	7,030	5,890	4,820
16	4,360	4,390	4,490	4,670	4,800	5,610	6,120	6,320	7,120	7,010	5,840	4,810
17	4,360	4,390	4,500	4,680	4,770	5,630	6,120	6,380	7,120	7,000	5,800	4,780
18	4,350	4,410	4,510	4,690	4,770	5,670	6,150	6,410	7,120	6,990	5,750	4,760
19	4,350	4,410	4,520	4,680	4,810	5,710	6,170	6,390	7,120	6,970	5,710	4,730
20	4,340	4,400	4,520	4,680	4,840	5,730	6,160	6,380	7,130	6,960	5,670	4,700
21	4,340	4,400	4,530	4,680	4,850	5,740	6,190	6,380	7,120	6,940	5,630	4,670
22	4,340	4,400	4,540	4,680	4,860	5,760	6,200	6,430	7,100	6,910	5,590	4,660
23	4,330	4,430	4,540	4,690	4,860	5,790	6,210	6,640	7,080	6,880	5,550	4,740
24	4,330	4,410	4,550	4,690	4,870	5,810	6,230	6,710	7,060	6,840	5,520	4,740
25	4,320	4,420	4,560	4,700	4,890	5,830	6,280	6,750	7,040	6,810	5,480	4,730
26	4,330	4,420	4,570	4,720	4,900	5,860	6,310	6,770	7,020	6,770	5,440	4,720
27	4,320	4,420	4,570	4,720	4,920	5,900	6,330	6,780	7,010	6,740	5,400	4,710
28	4,330	4,430	4,580	4,720	4,940	5,960	6,320	6,790	6,990	6,700	5,360	4,700
29	4,320	4,430	4,590	4,720	4,970	5,980	6,300	6,800	6,970	6,670	5,320	4,680
30	4,310	4,430	4,590	4,720	-----	6,000	6,290	6,830	6,960	6,640	5,280	4,670
31	4,300	-----	4,600	4,730	-----	6,020	-----	6,850	-----	6,600	5,240	-----
MAX	4,440	4,430	4,600	4,730	4,970	6,020	6,330	6,850	7,130	7,090	6,560	5,210
MIN	4,300	4,290	4,440	4,600	4,730	5,070	6,040	6,270	6,850	6,600	5,240	4,660
CHANGE	-316	130	165	128	240	1,060	267	558	109	-354	-1,360	-578
CAL YEAR 2003			MEAN	5,684	MAX	7,480	MIN	4,290				
WTR YEAR 2004			MEAN	5,469	MAX	7,130	MIN	4,290				

## ( ELKHORN RIVER )

## WILLOW CREEK near Pierce, 00232500 - 2004

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, except estimated records are poor.

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 24 cubic feet per second June 18, gage height 3.69 feet and July 6, gage height  
3.68 feet; minimum daily discharge 2.5 cubic feet per second, August 16 and September 1.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	3.8	3.7	4.2	3.9	4.9	5.6	5.0	6.7	6.9	3.6	2.5
2	3.7	3.6	3.8	4.4	3.9	4.9	5.6	4.9	5.6	13	3.2	2.5
3	3.8	3.7	3.8	4.3	3.9	4.9	5.4	5.0	5.7	22	3.2	2.7
4	3.7	3.9	4.0	4.4	3.9	5.1	5.5	4.9	6.7	21	3.6	2.7
5	3.8	3.8	3.9	4.4	3.9	5.1	5.6	4.9	8.9	21	3.7	3.1
6	3.9	3.7	4.0	4.5	4.0	5.2	5.5	4.7	10	24	3.7	3.3
7	4.0	3.7	4.1	4.5	4.0	5.2	5.6	4.7	9.3	23	3.3	3.4
8	4.0	3.5	4.0	4.5	4.1	5.2	5.9	4.7	8.7	22	3.2	3.4
9	4.1	3.5	4.2	4.5	4.1	5.1	5.9	4.8	9.3	22	3.5	3.2
10	4.1	3.5	4.2	4.6	4.1	5.3	5.8	5.1	13	22	3.6	2.9
11	4.4	3.5	4.2	4.6	4.1	5.4	5.9	5.4	19	22	3.6	2.9
12	4.2	3.6	4.2	4.4	3.9	5.2	6.0	5.2	20	21	3.3	3.0
13	4.2	3.4	4.3	4.4	4.0	5.3	6.0	5.0	22	20	3.0	3.1
14	4.0	3.6	4.2	4.5	3.9	5.4	6.1	4.9	22	18	3.0	3.4
15	3.9	3.5	4.3	4.4	3.9	5.6	6.0	4.7	22	17	2.8	3.6
16	3.9	3.5	4.3	4.4	3.9	5.9	5.9	4.7	22	15	2.5	3.5
17	4.1	3.5	4.4	4.3	3.9	5.9	5.9	4.6	22	13	2.7	3.7
18	4.0	3.5	4.4	4.3	4.0	5.9	6.0	4.4	22	11	2.8	3.9
19	3.9	3.5	4.2	4.4	4.2	6.0	5.9	4.2	22	9.0	2.8	4.0
20	4.0	3.5	4.0	4.4	4.3	5.8	6.1	4.3	21	7.0	2.9	4.1
21	4.0	3.6	4.1	4.5	4.2	5.9	6.0	4.4	21	6.1	2.9	4.2
22	3.8	3.6	4.0	4.5	4.2	5.9	5.9	4.6	20	4.4	2.9	4.2
23	3.9	3.8	4.1	4.6	4.4	5.6	5.9	4.6	18	3.7	3.0	4.4
24	3.8	3.7	4.2	4.5	4.4	5.7	5.7	4.5	16	3.3	3.0	4.2
25	3.7	3.7	4.0	4.6	4.5	5.9	5.6	4.5	14	3.4	3.0	4.4
26	3.9	3.6	4.0	4.7	4.6	5.7	5.6	4.7	13	3.8	2.8	4.4
27	3.9	3.6	4.1	4.6	4.6	5.6	5.6	4.6	12	3.9	2.8	4.5
28	3.9	3.7	4.2	4.7	4.6	5.6	5.4	4.7	11	3.9	2.9	4.8
29	3.9	3.8	4.2	4.5	4.9	5.5	5.3	4.8	9.6	3.7	2.8	4.9
30	3.9	3.7	4.2	4.4	-----	5.6	5.1	5.7	8.3	3.6	2.7	4.9
31	3.7	-----	4.0	4.3	-----	5.6	-----	6.5	-----	3.8	2.7	-----
TOTAL	121.7	108.6	127.3	138.3	120.3	169.9	172.3	149.7	440.8	393.5	95.5	109.8
MEAN	3.93	3.62	4.11	4.46	4.15	5.48	5.74	4.83	14.7	12.7	3.08	3.66
MAX	4.4	3.9	4.4	4.7	4.9	6.0	6.1	6.5	22	24	3.7	4.9
MIN	3.6	3.4	3.7	4.2	3.9	4.9	5.1	4.2	5.6	3.3	2.5	2.5
AC-FT	241	215	252	274	239	337	342	297	874	781	189	218
CAL YEAR 2003	TOTAL	2,586.30	MEAN	7.09	MAX	52	MIN	1.4	AC-FT	5,130		
WTR YEAR 2004	TOTAL	2,147.70	MEAN	5.87	MAX	24	MIN	2.5	AC-FT	4,260		

# PLATTE RIVER BASIN ( ELKHORN RIVER )

**UNION CREEK at Madison, 06799230 - 2004**

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 good.

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 4,520 cubic feet per second May 22, gage height 21.52 feet; minimum daily discharge 2.2 cubic feet per second September 8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	11	18	17	16	534	21	21	46	20	12	3.5
2	11	12	18	18	16	319	20	22	34	47	11	4.4
3	12	22	18	17	16	53	19	21	29	346	12	6.1
4	11	25	18	16	16	39	20	21	26	144	13	5.9
5	12	19	17	16	16	47	20	21	70	257	12	7.7
6	12	14	17	17	16	128	19	20	109	212	11	8.7
7	11	12	18	17	16	145	19	18	35	46	9.9	4.4
8	10	13	18	17	17	47	19	18	27	178	11	2.2
9	10	12	18	17	16	28	20	18	25	52	11	3.5
10	9.9	13	18	18	16	24	20	18	26	54	8.6	6.0
11	18	12	18	18	16	22	20	17	26	35	7.6	6.5
12	15	12	18	19	16	20	20	17	28	50	10	6.9
13	15	12	18	18	16	20	19	19	29	27	7.8	8.2
14	15	13	17	18	15	21	18	17	22	67	9.1	7.9
15	14	12	18	18	16	24	17	16	20	157	11	10
16	14	13	17	18	16	23	17	18	134	36	8.2	7.8
17	13	14	17	18	16	27	17	154	365	25	6.7	7.6
18	13	14	17	17	16	38	18	79	48	22	6.4	7.7
19	13	14	17	16	18	33	23	25	30	21	8.6	7.6
20	13	14	18	16	20	24	19	20	28	20	9.4	7.7
21	14	14	18	16	25	22	18	21	26	19	8.2	7.9
22	13	15	18	16	51	21	28	2,280	23	17	9.4	8.4
23	13	16	18	17	105	20	27	2,030	23	25	8.7	14
24	13	16	17	17	93	20	31	737	23	23	5.5	10
25	12	16	17	17	69	19	55	99	21	18	3.9	9.7
26	13	17	17	16	38	19	49	62	21	17	6.3	9.5
27	13	17	19	18	36	21	29	48	22	14	6.7	9.7
28	13	17	18	17	55	25	25	38	20	13	5.9	9.5
29	17	19	18	16	135	24	22	35	22	14	5.7	9.2
30	12	18	17	16	-----	21	22	344	21	14	6.5	9.1
31	11	-----	16	16	-----	21	-----	200	-----	13	4.1	-----
TOTAL	395.9	448	546	528	933	1,849	691	6,474	1,379	2,003	267.2	227.3
MEAN	12.8	14.9	17.6	17.0	32.2	59.6	23.0	209	46.0	64.6	8.62	7.58
MAX	18	25	19	19	135	534	55	2,280	365	346	13	14
MIN	9.9	11	16	16	15	19	17	16	20	13	3.9	2.2
AC-FT	785	889	1,080	1,050	1,850	3,670	1,370	12,840	2,740	3,970	530	451
CAL YEAR 2003	TOTAL	13,587.70	MEAN	37.2	MAX	1,580	MIN	3.6	AC-FT	26,950		
WTR YEAR 2004	TOTAL	15,741.40	MEAN	43.0	MAX	2,280	MIN	2.2	AC-FT	31,220		



## ( ELKHORN RIVER )

## PEBBLE CREEK at Scribner, 06799385 - 2004

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 7,580 cubic feet per second May 23, gage height 19.40 feet; minimum daily discharge 8.7 cubic feet per second August 29.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	15	15 E	12E	112	36	31	54	38	19	10
2	12	12	15	17	12E	108	35	31	49	41	19	11
3	12	15	15 E	13 E	11E	50	31	30	47	47	20	11
4	11	19	14 E	10 E	12E	44	31	30	45	63	89	11
5	10	16	13 E	9.6E	13E	238	30	28	45	223	40	12
6	10	14	13 E	10 E	13E	125	28	28	47	95	25	15
7	10	13	14 E	11 E	11E	57	27	29	44	60	21	13
8	11	13	13 E	11 E	12E	44	27	28	40	70	19	11
9	11	13	12 E	11 E	13E	40	27	57	38	686	19	11
10	11	13	9.0E	12 E	15E	37	28	32	38	123	17	11
11	12	13	9.6E	15 E	16E	35	28	31	38	111	17	11
12	13	13	10 E	15 E	14E	32	28	29	40	62	18	11
13	13	13	10 E	16 E	16E	33	27	42	36	44	16	11
14	12	13	11 E	17 E	14E	32	26	35	36	40	16	12
15	12	13	11 E	19 E	12E	33	25	31	33	37	16	14
16	12	13	10 E	19 E	13E	32	25	28	31	37	15	14
17	12	13	10 E	16 E	15E	34	24	54	32	33	16	13
18	12	13	12 E	12 E	20E	43	24	83	35	31	15	13
19	11	13	14 E	10 E	25E	49	26	32	35	29	14	12
20	11	13	15 E	11 E	35E	45	27	29	33	28	14	12
21	11	13	16 E	14 E	45E	36	47	76	34	27	13	13
22	11	13E	16 E	11 E	150E	33	34	1,490	34	28	12	17
23	11	11E	14 E	15 E	180E	33	33	3,240	34	27	12	16
24	12	10E	11 E	13 E	60E	31	36	266	32	24	12	15
25	12	11E	13 E	11 E	35E	30	71	113	32	24	12	13
26	12	13E	14 E	10 E	30E	30	41	87	32	23	11	13
27	12	14E	16 E	9.6E	42	37	32	76	34	22	9.4	13
28	12	11E	16 E	9.6E	64	128	33	66	34	20	9.2	12
29	12	13E	15 E	9.8E	77	49	33	61	34	23	8.7	12
30	12	14E	14 E	10 E	-----	40	32	163	36	21	10	12
31	12	-----	13 E	11 E	-----	37	-----	74	-----	19	10	-----
TOTAL	359	393	403.6	393.6	987	1,707	952	6,430	1,132	2,156	564.3	375
MEAN	11.6	13.1	13.0	12.7	34.0	55.1	31.7	207	37.7	69.5	18.2	12.5
MAX	13	19	16	19	180	238	71	3,240	54	686	89	17
MIN	10	10	9.0	9.6	11	30	24	28	31	19	8.7	10
AC-FT	712	780	801	781	1,960	3,390	1,890	12,750	2,250	4,280	1,120	744
CAL YEAR 2003 TOTAL		13,629.40	MEAN	37.3	MAX	2,390	MIN	7.1	AC-FT	27,030		
WTR YEAR 2004 TOTAL		15,852.50	MEAN	43.3	MAX	3,240	MIN	8.7	AC-FT	31,440		

E indicates estimated discharge.

# PLATTE RIVER BASIN ( ELKHORN RIVER )

**LOGAN CREEK at Pender, 06799450 - 2004**

LOCATION.--NW1/4 Section 26-25-6 E., Thurston County, Lat. 42° 06' 40", Long. 96° 42' 00", on left bank just downstream of the State Highway 94 bridge at Pender.

DRAINAGE AREA.--731 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,300.96 feet above mean sea level.

PERIOD OF RECORD.--1965 - present

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 36,900 cubic feet per second February 19, 1971, gage height 23.11 feet; minimum daily discharge 12 cubic feet per second August 11, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge 4,360 cubic feet per second June 11, gage height 11.13 feet; minimum daily discharge 61 cubic feet per second estimated February 12.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	100	120E	100E	86E	1,180	206	189	333	276	165	81
2	102	101	110E	98E	80E	1,070	200	188	291	284	179	79
3	104	118	100E	94E	72E	358	192	185	272	929	197	78
4	101	132	96E	90E	78E	291	187	182	262	870	192	76
5	97	117	92E	82E	86E	578	185	179	272	505	183	81
6	96	106	90E	82E	80E	719	183	174	425	460	173	92
7	95	102	98E	88E	74E	594	179	166	303	344	166	86
8	94	101	98E	88E	78E	357	175	166	264	318	159	83
9	95	102	88E	92E	80E	285	172	169	248	309	151	83
10	93	101	86E	98E	80E	254	172	183	650	295	143	83
11	100	102	76E	108E	72E	232	171	184	2,920	280	142	82
12	108	98	82E	120E	61E	214	172	175	1,230	269	140	82
13	98	93	90E	110E	70E	212	171	178	537	257	134	82
14	95	93	100E	120E	64E	207	170	185	576	243	128	105
15	94	96	100E	120E	62E	206	165	178	642	234	122	237
16	95	95	102E	112E	68E	197	165	177	633	318	118	177
17	96	96	102E	112E	76E	205	162	194	1,590	247	115	139
18	95	95	110E	100E	80E	227	165	213	541	227	113	109
19	94	96	118E	90E	90E	295	198	208	457	219	110	101
20	92	94	130E	94E	120E	326	207	199	427	215	107	96
21	91	94	140E	98E	160E	253	201	196	677	209	102	95
22	92	90E	140E	100E	230E	226	197	2,920	411	204	102	96
23	95	80E	130E	108E	300E	218	201	2,260	350	191	99	101
24	97	76E	110E	100E	500E	212	191	916	323	185	94	108
25	97	80E	120E	90E	350E	207	323	856	306	180	90	104
26	100	90E	140E	86E	340E	202	291	499	296	178	88	98
27	105	110E	130E	80E	336	221	228	409	300	175	86	95
28	104	100E	120E	70E	1,010	276	214	356	307	172	82	95
29	105	114E	110E	72E	947	257	204	326	295	185	88	97
30	101	130E	100E	78E	-----	227	192	443	285	228	88	97
31	99	-----	106E	84E	-----	212	-----	429	-----	181	85	-----
TOTAL	3,029	3,002	3,334	2,964	5,730	10,518	5,839	13,282	16,423	9,187	3,941	3,018
MEAN	97.7	100	108	95.6	198	339	195	428	547	296	127	101
MAX	108	132	140	120	1,010	1,180	323	2,920	2,920	929	197	237
MIN	91	76	76	70	61	197	162	166	248	172	82	76
AC-FT	6,010	5,950	6,610	5,880	11,370	20,860	11,580	26,340	32,580	18,220	7,820	5,990
CAL YEAR 2003 TOTAL		70,260	MEAN	192	MAX	5,370	MIN	61	AC-FT	139,400		
WTR YEAR 2004 TOTAL		80,267	MEAN	219	MAX	2,920	MIN	61	AC-FT	159,200		

E indicates estimated discharge.

**HAIGLER CANAL from Republican River, 00061000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	18	23	24	18
2								0	17	24	23	18
3								12	17	22	19	17
4								23	19	21	15	17
5								22	19	19	15	18
6								19	15	17	19	19
7								17	15	17	21	24
8								17	15	15	22	25
9								16	13	13	22	24
10								15	16	14	22	18
11								21	15	11	22	17
12								26	17	0	22	17
13								29	17	14	21	17
14								32	16	19	19	19
15								32	15	20	18	4.8
16								24	16	22	18	0
17								23	22	21	17	0
18								21	23	20	16	0
19								19	23	16	13	12
20								20	23	16	14	15
21								18	27	16	15	11
22								18	27	18	15	11
23								18	23	20	19	11
24								1.2	24	12	18	11
25								0	20	12	20	11
26								0	15	23	19	19
27								1.2	21	23	15	24
28								15	22	22	14	25
29								19	22	21	20	23
30					-----			24	22	22	19	18
31		-----			-----		-----	20	-----	24	19	-----
TOTAL								522.4	574	557	575	463.8
MEAN								16.9	19.1	18.0	18.5	15.5
MAX								32	27	24	24	25
MIN								0	13	0	13	0
AC-FT								1,040	1,140	1,100	1,140	920
CAL YEAR 2003	MAX	39	MIN	0	AC-FT	6,570						
WTR YEAR 2004	MAX	32	MIN	0	AC-FT	5,340						

# REPUBLICAN RIVER BASIN

**HAIGLER CANAL from Republican River, 00061400 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	12	14	19	12
2								0	13	13	17	12
3								1.8	14	7.4	14	11
4								15	16	9.0	12	10
5								13	16	9.6	12	11
6								9.2	14	9.4	14	11
7								8.8	12	9.5	15	14
8								9.0	8.9	8.6	17	14
9								9.1	7.2	7.8	15	13
10								9.5	8.3	8.0	13	12
11								9.9	8.3	10	13	11
12								16	11	.72	14	12
13								18	12	6.7	14	11
14								17	11	16	14	13
15								17	9.3	14	13	10
16								15	9.8	16	12	0
17								14	13	16	12	0
18								16	19	16	11	0
19								13	16	11	7.6	3.7
20								12	13	9.1	8.6	12
21								12	15	10	9.1	5.9
22								10	16	15	9.2	6.4
23								15	17	17	11	7.2
24								1.5	16	14	11	6.6
25								0	15	8.9	11	5.9
26								0	12	18	11	8.2
27								0	15	15	11	13
28								9.2	12	14	7.9	14
29								13	13	14	13	14
30					-----			16	13	15	12	12
31		-----			-----		-----	12	-----	18	12	-----
TOTAL								312.0	387.8	370.72	385.4	285.9
MEAN								10.1	12.9	12.0	12.4	9.53
MAX								18	19	18	19	14
MIN								0	7.2	.72	7.6	0
AC-FT								619	769	735	764	567
CAL YEAR 2003	MAX	34	MIN	0	AC-FT	4,720						
WTR YEAR 2004	MAX	19	MIN	0	AC-FT	3,450						

## HAIGLER CANAL SPILLBACK to Arikaree River, 00061500 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9							0	1.9	1.3 E	.29	3.8
2	4.1							0	5.1	.50E	.56	5.7
3	1.9							0	3.9	0 E	0	5.2
4	2.3							2.5	2.7	0 E	0	3.7
5	3.2							6.6	3.7	2.0 E	0	4.0
6	4.4							4.1	1.5	16 E	.07	2.8
7	3.2							1.1	0	12 E	1.6	4.0
8	1.4							0	0	7.0 E	2.1	3.9
9	.10							0	.45	2.4	.41	.70
10	0							0	.71	1.3	.13	.61
11	0							0	1.1	1.3	1.3	.52
12	0							.10	1.1	1.5	2.6	.44
13	0							.87	1.0 E	0	2.6	.37
14	0							1.3	1.6 E	2.2	.83	3.3
15	0							2.6	2.2 E	2.5	.54	.39
16	0							1.1	2.8 E	3.5	.76	.16
17	0							.89	.98	4.9	1.1	.10
18	0							1.3	1.6	6.9	1.6	.05
19	0							1.5	2.0 E	8.4	1.6	.02
20	0							0	2.0 E	5.6	1.2	2.5
21	0							.57	1.8 E	.86	1.9	3.3 E
22	0							.55	1.6 E	2.1	1.6	1.5 E
23	0							1.3	1.4 E	5.2	2.8	.50E
24	0							1.9	.70E	9.8	3.3	.80E
25	0							0	.40E	6.0	1.6	.20E
26	0							0	0 E	2.5	3.2	.10E
27	0							0	0 E	3.8	3.5	0 E
28	0							2.2	0 E	2.2	3.5	0 E
29	0							29	.50E	1.7	2.3	0 E
30	0				-----			5.4	1.0 E	.43	3.4	0 E
31	0	-----			-----		-----	3.3	-----	.36	3.5	-----
TOTAL	25.50							68.18	43.74	114.25	49.89	48.66
MEAN	.82							2.20	1.46	3.69	1.61	1.62
MAX	4.9							29	5.1	16	3.5	5.7
MIN	0							0	0	0	0	0
AC-FT	51							135	87	227	99	97
CAL YEAR 2003 MAX		25	MIN	0	AC-FT	1,670						
WTR YEAR 2004 MAX		29	MIN	0	AC-FT	695						

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

**SWANSON LAKE near Trenton, 06829000 - 2004**

LOCATION.--SE1/4NE1/4 Sec. 5-2-33 W., Hitchcock County, Lat. 40° 10' 10", Long. 101° 03' 35", in gate control house at right end of spillway on downstream side of Trenton Dam on Republican River, 2.5 miles west of Trenton.

GAGE.--Continuous stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

DRAINAGE AREA.--8,620 square miles, of which approximately 3,940 square miles contributes directly to surface runoff.

PERIOD OF RECORD.--May 1953 - present

REMARKS.--Values from the U.S. Bureau of Reclamation Great Plains Region web page.  
Published by U. S. Geological Survey up to October 1, 1994.

DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27,908	26,974	26,755	26,602	26,580	27,863	29,174	30,419	29,911	29,888	32,051	30,771
2	27,863	26,952	26,755	26,580	26,602	27,863	29,197	30,443	29,865	31,619	32,027	30,748
3	27,863	27,061	26,755	26,580	26,580	27,930	29,197	30,466	29,818	31,786	31,979	30,630
4	27,841	27,083	26,755	26,602	26,580	27,997	29,197	30,512	29,795	31,786	31,955	30,583
5	27,796	27,061	26,733	26,624	26,624	28,175	29,220	30,536	29,818	31,907	31,931	30,536
6	27,774	27,061	26,733	26,624	26,646	28,243	29,220	30,583	29,772	31,931	31,835	30,512
7	27,752	27,061	26,711	26,624	26,667	28,334	29,242	30,583	29,726	31,907	31,786	30,443
8	27,752	27,061	26,711	26,624	26,667	28,402	29,265	30,583	29,749	31,883	31,738	30,396
9	27,729	27,039	26,711	26,624	26,667	28,425	29,265	30,606	30,327	31,835	31,690	30,327
10	27,707	27,017	26,733	26,624	26,668	28,493	29,356	30,606	30,396	31,931	31,690	30,281
11	27,640	27,017	26,711	26,624	26,646	28,538	29,425	30,606	30,350	32,051	31,596	30,234
12	27,596	27,017	26,711	26,624	26,646	28,561	29,518	30,606	30,327	32,123	31,572	30,165
13	27,551	26,995	26,689	26,624	26,646	28,606	29,611	30,559	30,281	32,027	31,501	30,119
14	27,529	26,974	26,689	26,602	26,646	28,652	29,656	30,489	30,257	31,931	31,454	30,027
15	27,484	26,974	26,689	26,624	26,668	28,720	29,703	30,466	30,257	31,907	31,384	30,165
16	27,462	26,974	26,689	26,624	26,689	28,720	29,772	30,443	30,327	32,123	31,360	30,165
17	27,417	26,952	26,689	26,624	26,689	28,765	29,795	30,419	30,281	31,931	31,337	30,119
18	27,395	26,952	26,668	26,624	26,733	28,788	29,818	30,419	30,234	31,931	31,290	30,096
19	27,395	26,930	26,668	26,624	26,799	28,833	29,841	30,396	30,189	31,907	31,219	30,073
20	27,373	26,908	26,646	26,624	26,886	28,879	29,841	30,396	30,189	31,859	31,172	30,050
21	27,328	26,864	26,646	26,624	26,974	28,902	29,865	30,373	30,189	31,811	31,125	29,980
22	27,306	26,864	26,646	26,624	27,061	28,924	29,865	30,350	30,189	32,027	31,077	29,934
23	27,306	26,908	26,646	26,624	27,150	28,947	29,957	30,327	30,165	32,027	31,030	30,050
24	27,284	26,864	26,646	26,624	27,217	29,015	30,119	30,281	30,142	32,075	31,030	30,050
25	27,217	26,842	26,624	26,624	27,261	29,061	30,165	30,234	30,050	32,123	30,983	30,027
26	27,172	26,821	26,624	26,624	27,306	29,083	30,212	30,212	30,027	32,171	30,983	30,003
27	27,127	26,821	26,624	26,624	27,351	29,129	30,257	30,189	29,980	32,147	30,983	29,980
28	27,105	26,821	26,624	26,624	27,417	29,174	30,327	30,189	29,957	32,123	30,983	29,934
29	27,105	26,799	26,624	26,623	27,484	29,197	30,327	30,165	29,934	32,099	30,936	29,934
30	27,061	26,777	26,602	26,602	-----	29,197	30,350	30,119	29,911	32,075	30,889	29,911
31	27,017	-----	26,602	26,580	-----	29,174	-----	30,003	-----	32,075	30,795	-----
MAX	27,908	27,083	26,755	26,624	27,484	29,197	30,350	30,606	30,396	32,171	32,051	30,771
MIN	27,017	26,777	26,602	26,580	26,580	27,863	29,174	30,003	29,726	29,888	30,795	29,911
CHANGE	-867	-240	-175	-22.0	904	1,690	1,176	-347	-92.0	2,164	-1,280	-884
CAL YEAR 2003			MEAN	28,149	MAX	32,900	MIN	21,800				
WTR YEAR 2004			MEAN	28,918	MAX	32,171	MIN	26,580				

**REPUBLICAN RIVER near Trenton, 00126700 - 2004**

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 2003 TO SEP 2004

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 2004 WATER YEAR.

# REPUBLICAN RIVER BASIN

**MEEKER-DRIFTWOOD CANAL from Republican River, 00087000 - 2004**

LOCATION.--SW1/4NW1/4 Sec. 9-2-33 W. below Trenton Dam

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

PERIOD OF RECORD.--1957 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-----												
NO WATER WAS DIVERTED IN 2004.												
CAL YEAR 2003	MAX	0	MIN	0	AC-FT	0						
WTR YEAR 2004	MAX	0	MIN	0	AC-FT	0						



**FRENCHMAN CREEK near Imperial, 06831500 - 2004**

LOCATION.--SW1/4NW1/4 Sec. 3-5-38 W., Chase County, Lat. 40°25'45", Long. 101°37'25", on right bank, 0.2 mile downstream from bridge on county road; 5.8 miles upstream from Enders Dam; 1 mile east and 6.1 miles south of Imperial.

DRAINAGE AREA.--880 square miles, approximately 720 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Elevation of the gage is approximately 3130 feet from topographic map.

PERIOD OF RECORD.--1940 - present (published as Frenchman River near Imperial 1965-1972)

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 2,340 cubic feet per second March 22, 1960, gage height 8.43 ft.; minimum daily discharge 1.7 cubic feet per second July 24 & 25, 2003.

EXTREMES FOR CURRENT YEAR.--Peak discharge 6.7 cubic feet per second April 11, gage height 1.06 feet; minimum daily discharge 2.4 cubic feet per second September 1 -4, 10 - 13.

**DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	4.2	4.4	4.2	4.5	4.1	4.7	4.9	3.6	3.9	3.2	2.4
2	3.2	4.4	4.4	4.1	4.5	4.0	5.4	4.7	3.4	4.1	3.1	2.4
3	3.3	4.5	4.3	4.1	4.5	4.1	5.3	4.5	3.3	3.8	3.0	2.4
4	3.3	4.4	4.1	4.0	4.5	4.1	5.1	4.5	3.3	3.7	3.0	2.4
5	3.3	4.3	4.2	3.9	4.7	4.0	5.2	4.5	3.1	3.8	2.8	2.8
6	3.2	4.2	4.2	3.9	4.5	3.9	5.0	4.6	3.1	3.6	2.9	2.7
7	3.2	4.2	4.4	3.9	4.5	3.9	4.9	4.5	2.9	3.4	2.9	2.6
8	3.2	4.2	4.4	4.1	4.6	4.0	5.4	4.4	2.8	3.3	2.8	2.5
9	3.2	4.2	4.6	4.1	4.6	4.0	5.8	4.3	3.2	3.4	2.7	2.5
10	3.3	4.2	4.7	4.1	4.6	4.0	5.9	4.4	3.5	4.0	2.7	2.4
11	3.3	4.2	4.8	4.2	4.6	4.2	6.0	4.2	3.3	3.9	2.7	2.4
12	3.4	4.0	4.9	4.2	4.5	4.3	6.7	4.6	3.2	3.6	2.7	2.4
13	3.3	3.9	4.8	4.1	4.4	4.7	6.5	5.1	3.1	3.4	2.6	2.4
14	3.5	3.9	5.0	4.1	4.4	5.3	6.3	5.0	3.1	3.3	2.6	2.6
15	3.7	3.9	4.9	4.2	4.5	5.0	5.9	4.9	3.0	3.2	2.6	3.2
16	3.7	3.8	5.0	4.3	4.5	4.9	5.8	4.9	3.5	4.1	2.6	2.9
17	3.7	3.9	5.0	4.2	4.5	5.1	5.8	4.9	3.6	3.7	2.5	2.9
18	3.6	3.9	4.8	4.3	4.4	4.6	5.4	4.9	3.7	3.5	2.5	2.8
19	3.6	3.9	4.7	4.3	4.4	4.4	5.3	4.8	3.9	3.3	2.6	2.8
20	3.7	4.0	4.7	4.4	4.3	4.4	5.5	4.6	3.9	3.1	2.7	2.8
21	3.7	4.1	4.6	4.4	4.2	4.5	5.4	4.4	3.8	3.1	2.6	2.9
22	3.7	4.1	4.7	4.4	4.0	4.6	5.8	4.3	3.8	3.0	2.5	3.9
23	3.8	4.0	4.5	4.4	4.1	4.7	5.8	4.0	3.6	3.6	2.5	3.5
24	3.8	4.2	4.4	4.4	4.0	5.1	5.7	3.8	3.5	4.0	2.6	3.2
25	3.8	4.2	4.4	4.5	3.7	5.3	5.5	3.6	3.5	3.8	2.9	3.1
26	3.9	4.2	4.4	4.4	3.5	5.5	5.2	3.6	3.5	3.6	2.7	3.1
27	4.1	4.1	4.3	4.4	3.5	5.2	5.1	3.7	3.4	3.4	2.7	3.2
28	4.2	4.2	4.3	4.4	4.0	5.1	4.8	3.5	3.4	3.2	2.8	3.3
29	4.1	4.2	4.3	4.4	4.2	4.8	4.7	3.4	3.3	3.1	2.6	3.4
30	4.1	4.3	4.2	4.4	-----	4.6	4.9	3.8	3.4	3.5	2.5	3.4
31	4.1	-----	4.2	4.5	-----	4.6	-----	3.7	-----	3.4	2.5	-----
TOTAL	111.2	123.8	140.6	131.3	125.2	141.0	164.8	135.0	101.7	109.8	84.1	85.3
MEAN	3.59	4.13	4.54	4.24	4.32	4.55	5.49	4.35	3.39	3.54	2.71	2.84
MAX	4.2	4.5	5.0	4.5	4.7	5.5	6.7	5.1	3.9	4.1	3.2	3.9
MIN	3.2	3.8	4.1	3.9	3.5	3.9	4.7	3.4	2.8	3.0	2.5	2.4
AC-FT	221	246	279	260	248	280	327	268	202	218	167	169
CAL YEAR 2003 TOTAL		1,929.50	MEAN	5.29	MAX	14	MIN	1.7	AC-FT	3,830		
WTR YEAR 2004 TOTAL		1,453.80	MEAN	3.97	MAX	6.7	MIN	2.4	AC-FT	2,880		

# REPUBLICAN RIVER BASIN

**FRENCHMAN CREEK near Enders, 06832500 - 2004**

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 2003 TO SEP 2004

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

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 NO WATER WAS RELEASED FROM ENDERS RESERVOIR IN 2004.

CAL YEAR 2003	MAX	39	MIN	25	AC-FT	1.110						
WTR YEAR 2004	MAX	0	MIN	0	AC-FT	0						

**STINKING WATER CREEK near Palisade, 06835000 - 2004**

LOCATION.--SW1/4NW1/4 Sec. 30-5-33 W., Hayes County, Lat. 40°22'23", Long. 101°07'01", 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 175 cubic feet per second July 11, gage height 7.56 feet; minimum daily discharge 5.8 cubic feet per second October 1.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	9.5	12	16E	12E	16	14	15	12	12	56	7.8
2	5.9	9.4	12	15E	11E	18	12	15	12	11	29	7.5
3	6.3	9.8	12	14E	11E	17	12	15	10	12	23	7.1
4	6.5	9.9	12	14E	12E	17	12	14	9.5	11	16	6.8
5	6.9	10	11E	13E	12E	17	13	14	10	14	14	7.0
6	7.0	10	11E	13E	12E	16	14	13	9.7	11	13	7.6
7	7.1	10	11E	12E	12E	15	12	11	8.5	11	12	7.8
8	7.2	10	12	12E	12E	14	11	10	7.4	8.2	12	7.3
9	7.4	10	13	13E	13E	13	10	9.7	26	12	11	6.9
10	7.5	11	12E	14E	13E	14	11	10	13	39	12	6.6
11	8.2	11	11E	14E	13E	14	11	10	11	148	12	6.6
12	8.2	11	12	15E	13E	15	14	8.9	9.4	74	11	6.3
13	8.4	11	12E	15	14E	14	15	9.8	7.8	30	11	6.3
14	9.1	11	11E	15	14E	14	18	12	7.4	27	10	6.2
15	8.5	11	11E	16	15E	15	19	13	6.9	20	11	6.9
16	8.6	11	10E	14	15E	15	19	14	7.7	16	11	7.5
17	8.4	11	11E	14	16E	15	18	14	11	14	11	7.4
18	8.5	11	11	14	17E	15	15	15	13	13	10	7.4
19	8.4	10	12E	15	17	15	13	15	13	12	9.9	7.2
20	8.0	10	13E	15	19	14	13	15	15	11	9.9	7.1
21	7.7	10	14E	15	19	14	13	14	16	10	9.4	7.4
22	7.8	10	15	14	18	14	16	14	15	10	9.2	8.6
23	8.3	9.5E	16	14	17	15	16	15	14	11	8.8	9.6
24	8.5	9.0E	16	14	16	15	20	17	11	16	8.3	11
25	9.2	9.0E	17	15	15	15	21	17	9.8	18	8.5	10
26	9.4	9.5E	17	13E	14	15	25	14	8.9	15	9.0	9.7
27	9.7	10 E	18	14E	14	16	24	14	9.3	13	9.0	9.3
28	10	11 E	19	12E	14	19	20	12	9.2	12	8.8	8.8
29	11	11 E	18E	12E	14	19	16	11	9.0	13	8.6	8.5
30	10	12	17E	13E	-----	17	15	12	7.7	29	9.0	8.5
31	9.6	-----	16E	13E	-----	15	-----	12	-----	80	8.5	-----
TOTAL	253.1	308.6	415	432	414	477	462	405.4	330.2	733.2	401.9	232.7
MEAN	8.16	10.3	13.4	13.9	14.3	15.4	15.4	13.1	11.0	23.7	13.0	7.76
MAX	11	12	19	16	19	19	25	17	26	148	56	11
MIN	5.8	9.0	10	12	11	13	10	8.9	6.9	8.2	8.3	6.2
AC-FT	502	612	823	857	821	946	916	804	655	1,450	797	462
CAL YEAR 2003 TOTAL		4,670.40	MEAN	12.8	MAX	59	MIN	3.2	AC-FT	9,260		
WTR YEAR 2004 TOTAL		4,865.10	MEAN	13.3	MAX	148	MIN	5.8	AC-FT	9,650		

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

**CULBERTSON CANAL from Frenchman River, 00035000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						0	24	31	23	23	21	22
2						0	25	31	23	25	21	21
3						0	26	31	22	24	24	18
4						0	26	31	22	23	26	17
5						0	26	31	23	24	28	17
6						0	26	31	22	22	28	19
7						0	27	31	20	24	28	8.3
8						0	26	30	19	24	29	0
9						0	24	29	24	23	26	0
10						0	24	29	24	23	24	0
11						0	24	29	23	23	24	0
12						0	25	28	21	24	24	0
13						0	25	28	20	24	24	0
14						0	25	28	19	23	24	0
15						0	29	28	18	23	24	0
16						0	33	29	18	25	24	0
17						25	33	28	20	26	24	0
18						13	33	28	22	26	24	0
19						34	33	28	23	29	23	0
20						27	34	28	24	27	24	0
21						25	35	28	25	27	24	0
22						25	35	28	25	24	24	0
23						25	35	27	25	21	24	0
24						27	35	28	24	19	23	0
25						28	34	27	22	19	24	0
26						27	33	26	21	19	24	0
27						26	33	26	22	19	24	0
28						25	33	25	22	19	23	0
29						25	32	24	22	19	23	0
30					-----	21	32	24	21	22	23	0
31		-----			-----	21	-----	23	-----	21	24	-----
TOTAL						374	885	873	659	714	754	122.3
MEAN						12.1	29.5	28.2	22.0	23.0	24.3	4.08
MAX						34	35	31	25	29	29	22
MIN						0	24	23	18	19	21	0
AC-FT						742	1,760	1,730	1,310	1,420	1,500	243
CAL YEAR 2003	MAX	38	MIN	0	AC-FT	7,990						
WTR YEAR 2004	MAX	35	MIN	0	AC-FT	8,690						

## RIVERSIDE CANAL from Frenchman River, 00127000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	0	5.9 E	15	4.0
2							0	0	0	5.9 E	14	2.8
3							0	0	.20E	5.9 E	14	.58
4							.88	0	4.0 E	5.9 E	9.9	.99
5							3.1	0	4.0 E	5.9 E	7.2	.06
6							2.9	0	4.0 E	5.9 E	7.2	0
7							2.9	0	4.0 E	6.9 E	6.7	0
8							2.8	0	4.6 E	6.6 E	6.4	8.3
9							2.9	0	3.7 E	9.7 E	6.4	9.3
10							3.2	0	3.7 E	9.7 E	6.9	6.8
11							3.2	0	3.7 E	9.7 E	7.3	5.4
12							3.6	0	3.7 E	9.7 E	7.5	5.0
13							3.8	0	3.7 E	.50E	6.3	4.7
14							3.9	0	3.7 E	0	5.3	4.6
15							4.0	0	3.7 E	0	5.0	5.5
16							3.3	0	3.7 E	2.2	5.8	4.8
17							2.8	0	2.8 E	11	6.3	5.9
18							2.3	0	5.9 E	10	5.2	5.7
19							.96	0	5.9 E	10	5.9	4.0
20							0	0	5.9 E	9.8	6.3	4.0
21							0	0	5.9 E	11	5.8	4.0
22							0	0	5.9 E	11	5.0	5.7
23							0	0	5.9 E	12	3.5	2.4
24							0	0	5.9 E	13	1.6	0
25							0	0	5.9 E	14	3.1	0
26							0	0	5.9 E	13	.97	0
27							0	0	5.9 E	13	1.4	0
28							0	0	5.9 E	13	2.6	0
29							0	0	5.9 E	13	1.5	0
30					-----		0	0	5.9 E	15	.35	0
31		-----			-----		0	0	-----	15	1.7	-----
TOTAL							46.54	0	129.90	274.20	182.12	94.53
MEAN							1.55	0	4.33	8.85	5.87	3.15
MAX							4.0	0	5.9	15	15	9.3
MIN							0	0	0	0	.35	0
AC-FT							92	0	258	544	361	188
CAL YEAR 2003 MAX		20	MIN	0	AC-FT	1,840						
WTR YEAR 2004 MAX		15	MIN	0	AC-FT	1,440						

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

## RED WILLOW CREEK above Hugh Butler Lake, 06837300 - 2004

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 fair, 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 175 cubic feet per second July 11, gage height 7.56 feet; minimum daily discharge 5.8 cubic feet per second October 1.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	9.5	12	16E	12E	16	14	15	12	12	56	7.8
2	5.9	9.4	12	15E	11E	18	12	15	12	11	29	7.5
3	6.3	9.8	12	14E	11E	17	12	15	10	12	23	7.1
4	6.5	9.9	12	14E	12E	17	12	14	9.5	11	16	6.8
5	6.9	10	11E	13E	12E	17	13	14	10	14	14	7.0
6	7.0	10	11E	13E	12E	16	14	13	9.7	11	13	7.6
7	7.1	10	11E	12E	12E	15	12	11	8.5	11	12	7.8
8	7.2	10	12	12E	12E	14	11	10	7.4	8.2	12	7.3
9	7.4	10	13	13E	13E	13	10	9.7	26	12	11	6.9
10	7.5	11	12E	14E	13E	14	11	10	13	39	12	6.6
11	8.2	11	11E	14E	13E	14	11	10	11	148	12	6.6
12	8.2	11	12	15E	13E	15	14	8.9	9.4	74	11	6.3
13	8.4	11	12E	15	14E	14	15	9.8	7.8	30	11	6.3
14	9.1	11	11E	15	14E	14	18	12	7.4	27	10	6.2
15	8.5	11	11E	16	15E	15	19	13	6.9	20	11	6.9
16	8.6	11	10E	14	15E	15	19	14	7.7	16	11	7.5
17	8.4	11	11E	14	16E	15	18	14	11	14	11	7.4
18	8.5	11	11	14	17E	15	15	15	13	13	10	7.4
19	8.4	10	12E	15	17	15	13	15	13	12	9.9	7.2
20	8.0	10	13E	15	19	14	13	15	15	11	9.9	7.1
21	7.7	10	14E	15	19	14	13	14	16	10	9.4	7.4
22	7.8	10	15	14	18	14	16	14	15	10	9.2	8.6
23	8.3	9.5E	16	14	17	15	16	15	14	11	8.8	9.6
24	8.5	9.0E	16	14	16	15	20	17	11	16	8.3	11
25	9.2	9.0E	17	15	15	15	21	17	9.8	18	8.5	10
26	9.4	9.5E	17	13E	14	15	25	14	8.9	15	9.0	9.7
27	9.7	10 E	18	14E	14	16	24	14	9.3	13	9.0	9.3
28	10	11 E	19	12E	14	19	20	12	9.2	12	8.8	8.8
29	11	11 E	18E	12E	14	19	16	11	9.0	13	8.6	8.5
30	10	12	17E	13E	-----	17	15	12	7.7	29	9.0	8.5
31	9.6	-----	16E	13E	-----	15	-----	12	-----	80	8.5	-----
TOTAL	253.1	308.6	415	432	414	477	462	405.4	330.2	733.2	401.9	232.7
MEAN	8.16	10.3	13.4	13.9	14.3	15.4	15.4	13.1	11.0	23.7	13.0	7.76
MAX	11	12	19	16	19	19	25	17	26	148	56	11
MIN	5.8	9.0	10	12	11	13	10	8.9	6.9	8.2	8.3	6.2
AC-FT	502	612	823	857	821	946	916	804	655	1,450	797	462
CAL YEAR 2003	TOTAL	4,670.40	MEAN	12.8	MAX	59	MIN	3.2	AC-FT	9,260		
WTR YEAR 2004	TOTAL	4,865.10	MEAN	13.3	MAX	148	MIN	5.8	AC-FT	9,650		

E indicates estimated discharge.

**HUGH BUTLER LAKE near McCook, 06837390 - 2004**

LOCATION.--SW1/4NW1/4 Sec. 31-5-29 W., Frontier County, Lat. 40° 21' 35", 100° 39' 55", in gate control house at outlet tube of Red Willow Dam on Red Willow Creek, 12 miles north of McCook.

DRAINAGE AREA.--730 square miles, of which approximately 310 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--September 1961 - present

REMARKS.--Values from the U.S. Bureau of Reclamation Great Plains Region web page.  
Published by U. S. Geological Survey up to October 1, 1994.

**DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15,202	15,010	15,269	15,607	16,087	16,750	17,181	17,567	17,431	17,191	18,560	18,075
2	15,202	15,029	15,278	15,617	16,097	16,730	17,181	17,567	17,399	17,275	18,571	18,043
3	15,192	15,087	15,288	15,617	16,107	16,771	17,191	17,567	17,389	17,275	18,549	18,000
4	15,182	15,096	15,298	15,665	16,127	16,811	17,191	17,567	17,368	17,326	18,538	17,990
5	15,182	15,106	15,317	15,675	16,157	16,873	17,191	17,577	17,378	17,462	18,505	17,979
6	15,173	15,106	15,317	15,685	16,197	16,893	17,202	17,588	17,358	17,472	18,473	17,958
7	15,173	15,106	15,326	15,685	16,217	16,913	17,212	17,577	17,347	17,472	18,516	17,937
8	15,173	15,115	15,346	15,724	16,227	16,934	17,223	17,588	17,316	17,483	18,505	17,894
9	15,173	15,125	15,365	15,714	16,237	16,955	17,223	17,588	17,347	17,535	18,495	17,862
10	15,173	15,144	15,365	15,733	16,227	16,975	17,254	17,588	17,358	17,640	18,462	17,831
11	15,173	15,154	15,365	15,753	16,237	16,996	17,264	17,577	17,337	17,873	18,440	17,809
12	15,154	15,163	15,375	15,773	16,257	16,996	17,306	17,577	17,326	18,139	18,419	17,788
13	15,134	15,163	15,384	15,792	16,257	17,016	17,306	17,567	17,316	18,430	18,386	17,756
14	15,115	15,163	15,394	15,812	16,267	17,037	17,316	17,556	17,306	18,462	18,365	17,725
15	15,115	15,173	15,413	15,821	16,287	17,057	17,347	17,546	17,285	18,462	18,333	17,767
16	15,115	15,173	15,413	15,841	16,306	17,047	17,347	17,546	17,316	18,451	18,333	17,735
17	15,096	15,173	15,423	15,870	16,326	17,057	17,358	17,556	17,295	18,495	18,311	17,714
18	15,096	15,192	15,423	15,890	16,346	17,067	17,358	17,556	17,264	18,549	18,290	17,693
19	15,096	15,202	15,442	15,910	16,366	17,078	17,358	17,546	17,254	18,538	18,268	17,672
20	15,096	15,202	15,452	15,920	16,407	17,088	17,368	17,556	17,243	18,516	18,247	17,640
21	15,096	15,211	15,471	15,939	16,417	17,098	17,378	17,556	17,243	18,495	18,225	17,640
22	15,096	15,211	15,491	15,959	16,447	17,098	17,389	17,556	17,243	18,484	18,214	17,693
23	15,096	15,240	15,500	15,979	16,467	17,098	17,452	17,567	17,243	18,462	18,204	17,756
24	15,096	15,211	15,510	15,999	16,487	17,119	17,483	17,556	17,243	18,473	18,182	17,756
25	15,077	15,221	15,520	16,018	16,497	17,129	17,514	17,546	17,202	18,440	18,225	17,746
26	15,068	15,230	15,539	16,038	16,517	17,140	17,525	17,535	17,181	18,430	18,204	17,746
27	15,058	15,240	15,549	16,028	16,538	17,150	17,535	17,535	17,191	18,408	18,171	17,735
28	15,058	15,249	15,558	16,038	16,557	17,160	17,556	17,525	17,191	18,397	18,150	17,725
29	15,049	15,249	15,578	16,048	16,578	17,171	17,577	17,504	17,191	18,386	18,128	17,714
30	15,058	15,259	15,578	16,048	-----	17,171	17,567	17,504	17,191	18,473	18,107	17,714
31	15,029	-----	15,587	16,068	-----	17,171	-----	17,462	-----	18,505	18,086	-----
MAX	15,202	15,259	15,587	16,068	16,578	17,171	17,577	17,588	17,431	18,549	18,571	18,075
MIN	15,029	15,010	15,269	15,607	16,087	16,730	17,181	17,462	17,181	17,191	18,086	17,640
CHANGE	-173	230	328	481	510	593	396	-105	-271	1,314	-419	-372
CAL YEAR 2003			MEAN	15,290	MAX	17,200	MIN	12,700				
WTR YEAR 2004			MEAN	16,778	MAX	18,571	MIN	15,010				

REPUBLICAN RIVER BASIN

RED WILLOW CANAL from Red Willow Creek, 00126000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-----												
NO WATER WAS DIVERTED IN 2004.												
CAL YEAR 2003	MAX	0	MIN	0	AC-FT	0						
WTR YEAR 2004	MAX	0	MIN	0	AC-FT	0						



**BARTLEY CANAL from Republican River, 00006000 - 2004**

LOCATION.--NW1/4SW1/4 Sec. 16-3-27 W. near Indianola

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

PERIOD OF RECORD.--1955 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-----												
NO WATER DIVERTED IN 2004												
CAL YEAR 2003	MAX	0	MIN	0	AC-FT	0						
WTR YEAR 2004	MAX	0	MIN	0	AC-FT	0						

# REPUBLICAN RIVER BASIN

**MEDICINE CREEK above Harry Strunk Lake, 06841000 - 2004**

LOCATION.--SW1/4 Sec. 7-6-26 W., Frontier County, Lat. 40°30'10", Long. 100°19'20", on right bank 3.75 miles southeast of Stockville and 13.5 miles upstream from Medicine Creek Dam.

DRAINAGE AREA.--770 square miles, of which approximately 530 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 2,380.94 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1950 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except discharges above 125 cubic feet per second are fair and estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 11,600 cubic feet per second June 21, 1967, gage height 20.05 feet; minimum daily discharge 7.1 cubic feet per second August 8, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharge 185 cubic feet per second August 26, gage height 6.28 feet; minimum daily discharge 17 cubic feet per second September 4, 9 - 14.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	23	34	38E	32E	51	39	37	27	33	44	20
2	20	24	34	37E	33E	59	39	36	25	38	27	19
3	21	27	35	37E	33E	53	40	36	25	44	24	18
4	23	27	35	36E	33E	49	40	36	24	35	24	17
5	22	29	34E	36E	33E	47	40	36	24	64	23	18
6	21	27	34E	36E	34E	45	40	35	24	54	23	18
7	21	27	33E	37E	34E	43	39	34	23	46	23	18
8	21	27	34	36E	34E	43	39	33	22	36	24	18
9	20	27	34	36E	34E	42	39	33	21	53	22	17
10	20	28	35	36E	35E	43	39	33	22	67	22	17
11	21	29	36	37E	35E	43	41	32	22	92	21	17
12	21	29	35E	36E	35E	42	42	31	23	85	21	17
13	22	29	34E	36E	34E	42	43	32	24	53	22	17
14	22	29	35E	36E	35E	41	43	31	22	40	22	17
15	22	30	36E	37E	35E	42	42	31	21	34	22	18
16	24	30	37E	38E	38E	41	41	32	45	40	20	19
17	27	30	36E	39E	41E	41	39	32	56	29	20	21
18	27	30	35E	40E	45E	41	38	33	39	30	19	21
19	27	30	34E	41	45E	41	37	34	37	27	19	19
20	27	30	34E	41	44E	41	37	34	38	26	19	19
21	26	30	35E	40	43	40	37	33	38	26	18	19
22	26	30	35	40	43	41	40	32	35	24	19	27
23	25	29E	35	40	42	40	41	31	33	25	18	29
24	25	30E	39	40	41	40	47	30	31	27	19	30
25	25	31E	35	41	40	41	47	31	30	26	19	31
26	25	30E	35	38E	39	41	49	30	31	25	102	28
27	24	31E	35	35E	38	42	45	30	47	24	55	27
28	24	32E	35	32E	39	41	43	30	46	26	33	25
29	24	33E	35E	29E	43	41	40	28	38	26	28	25
30	24	34	36E	30E	-----	40	37	37	33	28	25	25
31	24	-----	37E	31E	-----	39	-----	31	-----	38	22	-----
TOTAL	720	872	1,086	1,142	1,090	1,336	1,223	1,014	926	1,221	819	631
MEAN	23.2	29.1	35.0	36.8	37.6	43.1	40.8	32.7	30.9	39.4	26.4	21.0
MAX	27	34	39	41	45	59	49	37	56	92	102	31
MIN	19	23	33	29	32	39	37	28	21	24	18	17
AC-FT	1,430	1,730	2,150	2,270	2,160	2,650	2,430	2,010	1,840	2,420	1,620	1,250
CAL YEAR 2003	TOTAL	13,701	MEAN	37.5	MAX	731	MIN	11	AC-FT	27,180		
WTR YEAR 2004	TOTAL	12,080	MEAN	33.0	MAX	102	MIN	17	AC-FT	23,960		

E indicates estimated discharge.

**HARRY STRUNK LAKE near Cambridge, 06842000 - 2004**

LOCATION.--NE1/4 Sec. 25-5-26 W., Frontier County, Lat. 40° 22' 40", Long. 100° 13' 00", in control house at outlet tube of Medicine Creek Dam, 7 miles northeast of Cambridge.

DRAINAGE AREA.--880 square miles, of which approximately 640 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--August 1949 - present

REMARKS.--Values from the U.S. Bureau of Reclamation Great Plains Region web page.  
Published by U. S. Geological Survey up to October 1, 1994.

**DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16,879	17,948	19,697	21,610	23,709	26,087	28,320	30,272	31,408	28,789	23,348	14,308
2	16,910	18,012	19,755	21,684	23,774	26,087	28,381	30,304	31,425	28,637	23,208	13,966
3	16,930	18,120	19,823	21,757	23,839	26,198	28,426	30,352	31,408	28,441	22,928	13,753
4	16,961	18,184	19,881	21,831	23,917	26,310	28,471	30,416	31,425	28,260	22,625	13,762
5	16,992	18,217	19,973	21,880	23,995	26,449	28,531	30,448	31,458	28,141	22,300	13,780
6	17,033	18,271	20,019	21,904	24,060	26,533	28,592	30,512	31,458	28,037	22,003	13,824
7	17,054	18,336	20,066	21,966	24,114	26,618	28,667	30,561	31,458	27,889	21,720	13,851
8	17,085	18,391	20,124	22,065	24,180	26,689	28,728	30,609	31,491	27,756	21,440	13,860
9	17,126	18,456	20,228	22,102	24,244	26,760	28,789	30,673	31,458	27,668	21,175	13,877
10	17,157	18,522	20,263	22,176	24,284	26,844	28,881	30,738	31,458	27,712	20,817	13,895
11	17,219	18,588	20,298	22,238	24,349	26,916	28,912	30,754	31,541	27,712	20,450	13,922
12	17,240	18,665	20,357	22,300	24,415	26,973	29,034	30,787	31,508	27,727	20,077	13,940
13	17,261	18,676	20,404	22,387	24,468	27,045	29,065	30,852	31,491	27,683	19,755	13,957
14	17,282	18,731	20,474	22,450	24,521	27,131	29,142	30,852	31,491	27,683	19,470	13,984
15	17,313	18,797	20,544	22,512	24,587	27,246	29,219	30,884	31,591	27,580	19,187	14,119
16	17,355	18,852	20,603	22,600	24,654	27,260	29,265	30,917	31,690	27,362	18,930	14,128
17	17,376	18,919	20,651	22,688	24,733	27,333	29,265	30,982	31,707	27,202	18,610	14,146
18	17,418	18,975	20,733	22,751	24,813	27,405	29,374	31,014	31,757	26,973	18,293	14,164
19	17,460	19,042	20,781	22,826	24,907	27,478	29,420	31,063	31,823	26,674	18,001	14,191
20	17,502	19,086	20,840	22,915	24,987	27,536	29,483	31,129	31,857	26,324	17,724	14,227
21	17,544	19,154	20,912	23,004	25,081	27,580	29,514	31,162	31,657	25,922	17,460	14,272
22	17,576	19,210	20,995	23,068	25,175	27,653	29,592	31,195	31,425	25,554	17,168	14,363
23	17,618	19,277	21,055	23,131	25,270	27,712	29,702	31,260	31,211	25,229	16,879	14,581
24	17,681	19,277	21,115	23,220	25,351	27,786	29,780	31,277	30,933	25,041	16,564	14,645
25	17,702	19,311	21,175	23,310	25,432	27,874	29,891	31,277	30,384	24,800	16,273	14,691
26	17,724	19,390	21,247	23,400	25,513	27,918	29,954	31,310	30,144	24,574	15,917	14,737
27	17,756	19,458	21,319	23,413	25,581	28,007	30,017	31,343	30,001	24,270	15,751	14,783
28	17,809	19,504	21,380	23,438	25,676	28,096	30,097	31,376	29,686	23,956	15,510	15,016
29	17,841	19,538	21,440	23,511	25,758	28,156	30,208	31,376	29,389	23,696	15,280	15,054
30	17,915	19,617	21,477	23,567	-----	28,216	30,208	31,408	29,096	23,619	14,848	15,101
31	17,926	-----	21,538	23,645	-----	28,245	-----	31,408	-----	23,451	14,673	-----
MAX	17,926	19,617	21,538	23,645	25,758	28,245	30,208	31,408	31,857	28,789	23,348	15,101
MIN	16,879	17,948	19,697	21,610	23,709	26,087	28,320	30,272	29,096	23,451	14,673	13,753
CHANGE	1,067	1,691	1,921	2,107	2,113	2,487	1,963	1,200	-2,312	-5,645	-8,778	428
CAL YEAR 2003			MEAN	22,744	MAX	34,200	MIN	16,100				
WTR YEAR 2004			MEAN	23,533	MAX	31,857	MIN	13,753				

# REPUBLICAN RIVER BASIN

## MEDICINE CREEK below Harry Strunk Lake, 06842500 - 2004

LOCATION.--Center of Sec. 25-5-26 W., Frontier County, Latitude 40° 22' 20", Longitude 100° 13' 20", On left bank 0.5 mile downstream from Medicine Creek Dam and 6.5 miles northwest of Cambridge.

DRAINAGE AREA.--880 square miles, of which 640 square miles contributes directly to surface runoff. This drainage controlled by Medicine Creek Dam 1/2 mile upstream.

GAGE.--Continuous stage recorder. Datum of gage is 2295.26 feet National Geodetic Vertical Datum of 1929 (U.S.B.R. benchmark).

PERIOD OF RECORD.--1949 - present (Monthly discharge only for some periods, published in WSP 1730).

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records above 10 cubic feet per second are good, records between 5 and 10 cubic feet per second are fair, records below 5 cubic feet per second and estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1,300 cubic feet per second March 23, 1960, gage height 5.97 ft.  
No flow September 11, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharge 231 cubic feet per second July 20, gage height 3.09 feet; minimum daily discharge 0 cubic feet per second October 19 - November 2.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	0	.30	.24	.25	.99	.78E	.13	.25	160	97	188
2	3.7	0	.35	.24	.26	.51	.78E	.10	6.2	131	144	173
3	3.4	.07	.36	.25	.25	.52	.78	.14	.92	126	167	21
4	.65	.12	.34	.28	.30	.52	1.4	.31	6.5	139	175	1.3
5	.65	.15	.30	.27	.29	.51	2.2	.24	.95	142	168	.43
6	.55	.20	.30	.25	.27	.43	.91	.28	.36	111	158	.28
7	3.5	.18	.32	.25	.26	.37	.53	.67	.23	103	158	.23
8	.30	.18	.33	.27	.27	.36	.42	1.7	.12	100	163	.21
9	.24	.18	.30	.25	.27	.30	.70	3.8	.07	100	186	.17
10	2.9	.18	.28	.24	.28	.32	1.3	8.0	.08	83	205	.10
11	.46	.18	.27	.25	.35	.30	1.6	14	.17	49	203	.07
12	.45	.16	.27	.25	.35	.29	.99	16	.13	71	199	.06
13	.66	.16	.26	.25	.34	.53	.71	18	.12	46	162	.05
14	.97	.17	.26	.26	.35	.87	.67	17	4.2	45	154	.02
15	.74	.18	.27	.29	.35	.51	1.1	3.6	2.2	110	154	.08
16	4.1	.18	.25	.33	.35	.50	1.6	1.9	.60	127	172	.05
17	.44	.18	.24	.34	.37	.88	1.0	1.7	.46	123	181	3.0
18	.05	.17	.25	.34	.40	.95	1.7	.72	.44	150	163	1.1
19	0	.16	.25	.34	.39	.79	2.7	.60	.44	185	165	.76
20	0	.18	.27	.33	.38	.79E	5.4	.52	85	220	154	.65
21	0	.18	.27	.32	.34	.79E	9.1	.41	130	216	153	.63
22	0	.19	.27	.29	.33	.79E	16	.42	121	202	156	4.0
23	0	.20	.27	.30	.32	.79E	16	.38	145	154	176	7.7
24	0	.21	.27	.30	.31	.79E	17	.32	186	146	187	6.8
25	0	.23	.27	.28	.31	.79E	14	.28	205	131	185	6.3
26	0	.24	.27	.29	.33	.79E	8.8	.21	191	160	178	6.4
27	0	.27	.29	.27	.34	.78E	.97	.19	185	163	149	7.2
28	0	.27	.22	.27	.35	.78E	.45	.20	183	179	145	6.9
29	0	.28	.22	.26	.68	.78E	.29	.22	173	141	146	6.4
30	0	.31	.22	.27	-----	.78E	.20	.18	169	99	183	6.1
31	0	-----	.23	.25	-----	.78E	-----	.22	-----	85	214	-----
TOTAL	28.76	5.36	8.57	8.62	9.64	19.88	110.08	92.44	1,797.44	3,997	5,200	448.99
MEAN	.93	.18	.28	.28	.33	.64	3.67	2.98	59.9	129	168	15.0
MAX	5.0	.31	.36	.34	.68	.99	17	18	205	220	214	188
MIN	0	0	.22	.24	.25	.29	.20	.10	.07	45	97	.02
AC-FT	57	11	17	17	19	39	218	183	3,570	7,930	10,310	891
CAL YEAR 2003 TOTAL	10,076.52		MEAN	27.6	MAX	252	MIN	0	AC-FT	19,990		
WTR YEAR 2004 TOTAL	11,726.78		MEAN	32.0	MAX	220	MIN	0	AC-FT	23,260		

E indicates estimated discharge.

**CAMBRIDGE CANAL from Republican River, 00020000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	154	95	189
2									0	128	142	176
3									0	117	186	97
4									0	119	204	0
5									0	109	199	0
6									0	99	174	0
7									0	99	165	0
8									0	93	165	0
9									0	80	181	0
10									0	74	198	0
11									0	75	200	0
12									0	75	196	0
13									0	77	162	0
14									0	85	146	0
15									0	110	147	0
16									0	146	156	0
17									0	155	168	0
18									0	154	162	0
19									0	179	159	0
20									0	200	152	0
21									55	206	147	0
22									91	198	148	0
23									108	157	165	0
24									143	134	182	0
25									165	131	182	0
26									165	158	176	0
27									164	185	152	0
28									170	196	144	0
29									166	164	144	0
30					-----				161	113	163	0
31		-----			-----		-----		-----	96	195	0
TOTAL									1,388	4,066	5,155	462
MEAN									46.3	131	166	14.9
MAX									170	206	204	189
MIN									0	74	95	0
AC-FT									2,750	8,060	10,220	916
CAL YEAR 2003	MAX	238	MIN	0	AC-FT	18,340						
WTR YEAR 2004	MAX	206	MIN	0	AC-FT	21,960						

# REPUBLICAN RIVER BASIN

## MUDDY CREEK at Arapahoe, 06844000 - 2004

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 161 cubic feet per second June 12, gage height 7.01 feet; minimum daily discharge 2.2 cubic feet per second September 13.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	4.7	5.3	5.2E	5.7E	7.1E	5.4	5.3	3.1	4.6	3.9	3.1
2	3.5	4.8	5.5	5.3E	5.7E	6.9E	5.5	5.2	3.0	8.9	3.7	3.1
3	3.4	5.3	5.6	5.5E	5.8E	6.8E	5.5	5.1	2.9	6.6	3.6	3.3
4	3.2	5.0	5.3E	5.0E	5.8E	6.6E	5.5	5.2	2.9	4.8	3.6	2.9
5	3.2	4.4	5.0E	5.3E	5.9E	6.6E	5.5	5.1	2.9	6.2	3.5	2.9
6	3.2	4.3	4.8E	5.5E	5.9E	6.8E	5.7	4.9	2.9	36	3.5	2.9
7	3.2	4.3	4.9E	5.8	6.0E	6.8E	6.0	4.7	2.8	17	3.5	2.8
8	3.4	4.1	5.0E	5.9	6.0E	6.6E	6.1	4.7	2.9	8.3	3.5	2.8
9	3.5	4.2	4.8E	6.0	6.1E	6.6E	5.7	4.6	2.8	11	3.5	2.6
10	4.2	4.3	4.6E	6.2	6.2E	6.5	5.6	4.7	2.7	25	3.6	2.5
11	5.6	4.4	4.4E	6.5	6.3E	6.4	5.6	4.5	5.9	20	3.7	2.4
12	5.2	4.6	4.5E	6.7	6.4E	6.3	6.0	4.5	74	12	3.7	2.3
13	5.3	4.7	4.8E	6.6	6.4E	6.3	6.2	4.6	12	9.1	3.6	2.2
14	5.3	4.7	5.2	6.7	6.5E	6.1	5.7	4.5	6.5	5.8	3.6	2.4
15	5.0	4.6	5.6	6.7	6.5E	5.9	5.8	4.4	6.1	4.7	3.5	5.6
16	4.9	4.5	5.1	7.0	6.7E	5.9	5.5	4.5	5.4	4.2	3.4	3.4
17	4.5	4.6	5.2	7.3	6.9E	5.9	5.8	4.8	7.2	4.0	3.6	2.7
18	4.2	4.6	6.1	7.4	7.1E	5.9	5.7	4.6	5.0	3.8	3.8	2.5
19	4.1	4.6	5.7	7.3E	7.3E	5.8	5.6	4.5	4.4	3.5	3.8	2.5
20	3.9	4.7	5.2	7.2E	7.7E	5.8	5.7	4.4	4.2	3.3	3.7	2.7
21	3.8	4.6	5.5E	7.1E	8.1E	5.4	5.8	4.4	4.0	3.2	3.6	2.8
22	3.7	4.5	5.5E	7.0E	8.6E	5.4	6.0	4.0	3.9	3.3	3.3	4.9
23	3.6	4.2E	5.4E	7.1E	9.0E	5.4	6.4	3.9	4.2	3.8	3.2	7.0
24	3.9	4.0E	5.4E	7.2E	8.5E	5.9	6.8	3.7	4.2	3.9	3.2	4.7
25	4.2	4.1E	5.3E	7.2E	7.9E	5.8	6.9	3.6	4.1	3.7	3.3	3.9
26	4.5	4.3E	5.3E	6.9E	7.7E	5.8	6.2	3.5	4.2	3.7	3.1	4.1
27	4.9	4.4E	5.2E	6.3E	7.6E	6.8	5.9	3.4	4.7	3.7	3.0	3.8
28	4.9	4.6E	5.2E	5.8E	7.4E	7.1	5.7	3.4	4.9	3.9	3.0	10
29	5.0	4.7	5.1E	5.3E	7.3E	6.0	5.3	3.1	4.4	4.0	3.0	6.0
30	5.0	5.3	5.0E	5.5E	-----	5.6	5.3	3.1	4.2	4.3	2.9	3.9
31	4.8	-----	5.1E	5.6E	-----	5.4	-----	3.4	-----	4.1	2.9	-----
TOTAL	130.5	136.1	160.6	196.1	199.0	192.2	174.4	134.3	202.4	240.4	106.8	108.7
MEAN	4.21	4.54	5.18	6.33	6.86	6.20	5.81	4.33	6.75	7.75	3.45	3.62
MAX	5.6	5.3	6.1	7.4	9.0	7.1	6.9	5.3	74	36	3.9	10
MIN	3.2	4.0	4.4	5.0	5.7	5.4	5.3	3.1	2.7	3.2	2.9	2.2
AC-FT	259	270	319	389	395	381	346	266	401	477	212	216
CAL YEAR 2003	TOTAL	2,226.00	MEAN	6.10	MAX	203	MIN	2.7	AC-FT	4,420		
WTR YEAR 2004	TOTAL	1,981.50	MEAN	5.41	MAX	74	MIN	2.2	AC-FT	3,930		

E indicates estimated discharge.

**TURKEY CREEK at Edison, 06844210 - 2004**

LOCATION.--NE1/4SW1/4 Sec. 31-4-21 W., Furnas County, Lat. 40° 16' 15", Long. 99° 44' 00", on left bank 10 feet downstream from bridge on U.S. Highway 136, 2 miles east of Edison and 2.7 miles upstream from mouth.

DRAINAGE AREA.--74.9 square miles.

GAGE.--Continuous stage recorder. Gage elevation is 2,090 feet above sea level, from topographic map.

PERIOD OF RECORD.--1977 - present

REMARKS.--Published by U.S. Geological Survey up to Oct. 1, 1993. Records are good, except estimated records and records below 8 cubic feet per second are fair.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1,510 cubic feet per second June 16, 1996, gage height 16.62 feet; minimum daily discharge 0.01 cubic feet per second September 6, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharge 102 cubic feet per second July 6, gage height 5.89 feet; maximum gage height 6.38 feet February 2 due to backwater from ice conditions; minimum daily discharge 3.5 cubic feet per second September 11.

**DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	8.7	12	16	12E	17	16	15	11	12	7.8	5.9
2	7.9	8.8	11	14	11E	15	16	15	11	15	7.2	5.8
3	7.6	11	11	13	11E	14	15	14	11	19	7.1	4.6
4	7.6	12	11	8.8	11E	15	15	14	12	13	7.4	3.9
5	7.7	10	10 E	8.3E	11E	15	15	14	12	28	8.7	4.0
6	7.9	9.6	9.0E	10 E	11E	15	15	14	12	60	8.4	3.8
7	7.4	9.4	10 E	13 E	11E	14	15	14	13	21	8.9	4.0
8	7.2	8.7	11 E	15 E	12E	14	15	14	13	15	9.2	4.4
9	7.2	9.2	11 E	17 E	12E	14	15	14	12	24	7.2	4.2
10	7.3	9.9	10 E	17 E	12E	14	15	13	11	25	5.0	4.1
11	8.6	11	9.3E	18	13E	14	16	15	9.6	16	6.7	3.5
12	11	11	9.5E	20	13E	14	16	13	8.0	14	6.8	3.9
13	10	11	9.7E	17	14E	14	16	13	7.9	13	6.4	3.7
14	11	11	10	16	14E	15	16	13	8.3	13	6.5	4.3
15	10	11	15	16	15E	14	16	13	9.8	13	6.0	8.2
16	10	11	11	16	15E	14	16	13	15	13	6.0	6.8
17	11	11	11	18	16E	13	15	13	12	13	6.6	5.1
18	10	11	15	17	16E	14	15	14	12	11	6.5	4.5
19	9.8	9.9	11	13	18E	14	15	13	12	11	5.5	4.4
20	9.9	9.8	9.2	13	20E	14	15	13	12	11	6.2	4.8
21	10	10	15	30	22E	13	14	13	12	10	4.9	5.0
22	9.5	10	13	33	24E	14	14	12	12	11	5.4	6.8
23	9.3	9.0E	12	22	26E	14	14	12	12	11	6.1	9.9
24	10	8.5E	9.6	26	28E	15	15	12	12	10	5.8	10
25	10	8.8E	14	21	27E	15	16	11	11	9.4	5.8	7.4
26	10	8.9E	13	18	29E	15	15	11	11	8.9	4.5	7.1
27	10	9.0E	13	16 E	30E	15	14	11	12	7.6	5.4	7.5
28	11	9.1	12	15 E	30E	16	14	11	12	7.9	5.7	11
29	9.9	11	9.8	14 E	20	16	14	11	11	10	5.6	12
30	9.3	15	8.9	13 E	-----	16	14	11	11	8.8	6.7	9.3
31	9.4	-----	19	12 E	-----	15	-----	11	-----	8.7	5.8	-----
TOTAL	285.2	304.3	356.0	516.1	504	451	452	400	340.6	463.3	201.8	179.9
MEAN	9.20	10.1	11.5	16.6	17.4	14.5	15.1	12.9	11.4	14.9	6.51	6.00
MAX	11	15	19	33	30	17	16	15	15	60	9.2	12
MIN	7.2	8.5	8.9	8.3	11	13	14	11	7.9	7.6	4.5	3.5
AC-FT	566	604	706	1,020	1,000	895	897	793	676	919	400	357
CAL YEAR 2003	TOTAL	4,439.80	MEAN	12.2	MAX	58	MIN	4.5	AC-FT	8,810		
WTR YEAR 2004	TOTAL	4,454.20	MEAN	12.2	MAX	60	MIN	3.5	AC-FT	8,830		

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

## BEAVER CREEK near Beaver City, 06847000 - 2004

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 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 3.1 cubic feet per second July 11, gage height 3.11 feet; minimum daily discharge 0.00 cubic feet per second September 11 - 13.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.15	.29	.26	.30	.27	.33	.72	.08	.14	.10	.06
2	.02	.09	.16	.27	.30	.27	.30	.83	.09	.18	.09	.04
3	.02	.08	.17	.25	.30	.31	.28	.80	.10	.13	.09	.04
4	.02	.10	.18	.22	.30	.38	.36	.63	.11	.14	.08	.03
5	.02	.08	.17	.22	.30	.36	.33	.49	.11	.39	.10	.03
6	.03	.10	.19	.16	.30	.34	.33	.51	.12	.25	.09	.03
7	.03	.07	.21	.18	.31	.33	.40	.42	.11	.26	.09	.04
8	.04	.07	.24	.21	.34	.31	.34	.49	.06	.23	.09	.04
9	.05	.06	.24	.21	.33	.30	.32	.52	.05	.27	.09	.03
10	.03	.07	.24	.21	.33	.32	.34	.47	.06	.35	.12	.01
11	.03	.15	.30	.23	.33	.34	.24	.43	.07	.92	.12	0
12	.02	.17	.27	.23	.25	.34	.25	.34	.07	.32	.11	0
13	.03	.25	.26	.23	.27	.34	.27	.58	.08	.32	.09	0
14	.04	.22	.27	.24	.27	.34	.26	.63	.09	.33	.09	.01
15	.05	.21	.28	.22	.23	.34	.28	.61	.15	.33	.08	.34
16	.04	.16	.28	.21	.27	.38	.28	.38	.21	.42	.08	.10
17	.04	.16	.30	.21	.31	.34	.22	.27	.19	.42	.08	.04
18	.06	.20	.29	.18	.34	.35	.23	.28	.19	.47	.06	.04
19	.10	.22	.31	.18	.34	.37	.31	.26	.18	.39	.05	.03
20	.14	.24	.44	.18	.31	.33	.37	.31	.17	.26	.05	.03
21	.13	.27	.41	.21	.26	.31	.44	.25	.13	.22	.05	.01
22	.12	.28	.41	.20	.21	.29	.51	.15	.13	.20	.05	.10
23	.15	.32	.43	.24	.19	.34	.67	.16	.11	.24	.03	.09
24	.16	.23	.44	.24	.17	.33	.86	.13	.08	.29	.04	.02
25	.13	.21	.38	.26	.16	.32	.96	.12	.06	.28	.03	.02
26	.11	.17	.33	.19	.13	.34	.79	.12	.09	.25	.03	.02
27	.08	.15	.31	.17	.15	.44	.63	.12	.10	.11	.03	.03
28	.09	.16	.27	.21	.16	.44	.67	.12	.09	.21	.04	.18
29	.13	.18	.28	.19	.25	.46	.67	.11	.07	.19	.07	.07
30	.16	.25	.27	.22	-----	.44	.61	.09	.06	.31	.08	.06
31	.19	-----	.26	.26	-----	.38	-----	.08	-----	.16	.07	-----
TOTAL	2.28	5.07	8.88	6.69	7.71	10.75	12.85	11.42	3.21	8.98	2.27	1.54
MEAN	.074	.17	.29	.22	.27	.35	.43	.37	.11	.29	.073	.051
MAX	.19	.32	.44	.27	.34	.46	.96	.83	.21	.92	.12	.34
MIN	.02	.06	.16	.16	.13	.27	.22	.08	.05	.11	.03	0
AC-FT	4.5	10	18	13	15	21	25	23	6.4	18	4.5	3.1
CAL YEAR 2003	TOTAL	108.92	MEAN	.30	MAX	1.9	MIN	0	AC-FT	216		
WTR YEAR 2004	TOTAL	81.65	MEAN	.22	MAX	.96	MIN	0	AC-FT	162		



**HARLAN COUNTY RESERVOIR near Republican City, 06849000 - 2004**

LOCATION.--Sec. 11-1-17 W., Harlan County, Lat. 40° 04' 10", Long. 99° 12' 30", at left end of spillway on upstream side of Harlan County Dam on Republican River, 2 miles southeast of Republican City and 8 miles southeast of Alma.

DRAINAGE AREA.--20,750 square miles, approximately 13,530 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is mean sea level.

PERIOD OF RECORD.--November 1952 - present

REMARKS.--Values from the U.S. Bureau of Reclamation Great Plains Region web page.  
Published by U.S. Geological Survey up to Oct. 1, 1994.

**DAILY MEAN CONTENTS IN ACRE-FEET WATER YEAR OCT 2003 TO SEP 2004**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117,739	115,219	114,138	113,418	113,850	115,579	115,724	116,587	116,587	114,282	114,643	111,402
2	117,595	115,435	113,850	113,562	113,922	115,147	115,724	116,587	116,299	114,427	114,643	111,186
3	117,451	115,435	114,138	113,562	113,850	115,147	115,724	116,443	116,083	114,427	114,355	110,970
4	117,523	115,579	113,995	113,490	113,850	115,075	115,652	116,587	116,011	114,499	114,427	110,623
5	117,451	115,363	114,066	113,490	114,066	115,724	115,652	116,371	116,011	114,859	114,066	110,623
6	117,379	115,363	113,995	113,490	114,210	115,724	115,724	116,587	116,011	115,219	113,995	110,554
7	117,307	115,291	113,922	113,418	114,210	115,652	116,299	116,371	115,579	115,003	113,922	110,211
8	117,235	115,147	113,850	113,490	114,138	115,652	116,299	116,443	115,652	115,075	113,778	110,005
9	117,235	115,147	113,922	113,345	114,138	115,579	116,011	116,946	115,507	115,724	113,562	109,867
10	117,163	115,075	113,922	113,345	114,138	115,652	116,083	116,731	115,435	115,507	113,562	109,455
11	117,451	115,219	113,706	113,418	114,138	115,652	116,155	117,451	115,363	115,363	113,490	109,455
12	117,451	115,363	113,778	113,418	114,066	115,507	116,443	117,019	115,147	116,299	113,201	109,455
13	117,451	115,003	113,778	113,418	114,066	115,507	116,443	117,307	115,075	116,011	112,842	109,111
14	117,379	115,003	113,778	113,418	114,066	115,579	116,227	117,019	115,003	116,011	112,842	109,524
15	116,946	115,075	113,778	113,418	114,066	115,579	116,443	116,299	115,003	116,011	112,842	109,249
16	116,946	115,003	113,778	113,418	113,995	115,579	116,371	116,802	115,147	115,939	113,273	108,974
17	116,874	115,003	113,706	113,418	113,995	115,507	116,371	116,874	115,075	115,939	113,201	108,836
18	116,946	115,075	113,778	113,418	113,995	115,579	116,443	117,379	115,003	115,724	113,058	108,836
19	116,874	114,859	113,634	113,418	114,066	115,435	116,371	117,595	114,859	115,652	113,058	108,767
20	116,874	114,787	113,562	113,418	114,066	115,435	116,011	117,595	114,715	115,579	112,986	108,355
21	116,731	114,643	113,562	113,418	114,066	115,363	116,299	117,666	114,787	115,363	112,842	108,355
22	116,731	114,571	113,490	113,418	114,138	115,291	116,227	117,523	114,715	115,075	112,770	109,111
23	116,659	114,787	113,634	113,418	114,138	115,219	116,155	117,811	114,355	115,075	112,554	109,180
24	116,587	114,499	113,490	113,562	114,138	115,363	116,587	117,739	114,210	115,003	112,266	109,111
25	116,443	114,427	113,490	113,706	114,066	115,435	116,874	117,595	114,066	115,003	112,410	109,042
26	116,155	114,427	113,490	113,850	114,138	115,507	116,731	117,307	114,066	114,643	112,051	108,974
27	116,011	114,355	113,562	113,778	114,066	115,579	116,659	117,451	114,355	114,355	112,123	109,180
28	116,011	114,355	113,562	113,706	114,066	115,724	116,659	117,235	114,210	114,499	111,978	109,042
29	115,867	114,282	113,562	113,706	114,066	115,867	116,443	117,307	114,138	114,427	111,762	109,111
30	115,867	114,282	113,634	113,706	-----	115,867	116,443	117,235	114,282	114,787	111,762	109,111
31	115,579	-----	113,345	113,706	-----	115,796	-----	116,731	-----	114,715	111,546	-----
MAX	117,739	115,579	114,138	113,850	114,210	115,867	116,874	117,811	116,587	116,299	114,643	111,402
MIN	115,579	114,282	113,345	113,345	113,850	115,075	115,652	116,299	114,066	114,282	111,546	108,355
CHANGE	-2,160	-1,297	-937	361	360	1,730	647	288	-2,449	433	-3,169	-2,435
CAL YEAR 2003			MEAN	146,104	MAX	179,000	MIN	113,345				
WTR YEAR 2004			MEAN	114,580	MAX	117,811	MIN	108,355				

REPUBLICAN RIVER BASIN

NAPONEE CANAL from Republican River, 00105000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-----												
NO WATER WAS DIVERTED IN 2004.												
CAL YEAR 2003	MAX	34	MIN	0	AC-FT	2,160						
WTR YEAR 2004	MAX	0	MIN	0	AC-FT	0						

**FRANKLIN CANAL from Republican River, 00053000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-----												
NO WATER WAS DIVERTED IN 2004.												
CAL YEAR 2003	MAX	232	MIN	0	AC-FT	15,260						
WTR YEAR 2003	MAX	0	MIN	0	AC-FT	0						

# REPUBLICAN RIVER BASIN

## TURKEY CREEK at Naponee, 06850000 - 2004

LOCATION.--SW1/4SW1/4 Sec. 4-1-16 W., Franklin County, Lat. 40° 04' 35", Long. 99° 08' 18", on the right, downstream abutment on the road bridge at the Naponee city park, Naponee, Nebraska.

DRAINAGE AREA.--129 square miles.

GAGE.--Continuous stage recorder. Gage datum 1,870.00 feet (Corps of Engineers bench mark).

PERIOD OF RECORD.--Published by USGS at as a continuous record site 1948 - 1953, published as a miscellaneous or partial record site 1954 - 1989, crest-stage partial record station 1991 - 2002, continuous record site by Nebraska Department of Natural Resources 2003.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 48 cubic feet per second May 18, gage height 2.12 feet; minimum daily discharge 3.1 cubic feet per second September 20.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	6.5	6.6	8.1	6.2E	9.1	8.5	8.6	5.6	5.8	4.7	4.2
2	4.7	6.6	6.7	8.1	6.2E	8.4	8.5	8.3	5.4	7.3	4.0	4.0
3	4.6	7.0	6.8	7.9	6.6E	8.5	9.0	8.2	5.5	6.5	4.6	4.0
4	4.5	6.8	6.8	6.2E	7.0E	8.8	8.9	7.7	5.3	6.5	4.5	3.7
5	4.7	6.8	6.8	6.0E	7.4E	9.6	9.2	7.3	5.6	7.8	5.8	3.6
6	4.5	6.8	6.6E	5.2E	7.6E	9.0	9.4	7.4	5.4	8.7	5.3	3.6
7	4.6	6.9	6.5	5.2E	7.6E	8.9	10	8.1	5.2	6.8	5.0	3.8
8	4.7	7.2	6.5	5.4E	7.8E	9.0	9.6	7.5	4.9	6.4	5.1	3.7
9	4.8	7.2	6.5	5.6E	8.0E	9.0	9.6	9.8	5.1	7.7	4.2	3.5
10	4.9	7.3	6.6E	6.0E	8.0E	8.7	9.6	7.2	5.0	12	5.0	3.6
11	6.2	7.0	6.4	6.2E	8.0E	8.4	9.5	6.7	4.3	11	6.1	3.3
12	6.1	7.0	6.4	6.4E	7.8E	8.5	10	6.6	3.9	6.9	6.0	3.4
13	6.0	7.0	6.3	6.6E	7.8E	8.4	10	7.4	3.8	6.2	6.1	3.3
14	6.1	6.9	6.4E	6.8E	7.6E	8.4	9.5	7.3	3.4	5.6	6.1	3.4
15	6.2	6.9	6.5	7.4E	7.2E	8.4	9.5	7.4	4.1	5.0	6.0	4.0
16	6.1	6.8	6.4	7.6E	7.2E	8.7	9.6	7.2	5.8	5.1	7.6	3.6
17	6.2	7.0	6.5	7.2E	7.2E	8.8	9.2	6.9	6.9	6.2	5.6	3.6
18	6.1	7.0	6.6	7.0E	7.4E	8.5	8.9	15	6.7	6.6	3.8	3.5
19	6.1	7.2	6.7	6.8E	7.6E	8.4	8.7	10	6.3	6.1	3.9	3.2
20	6.0	7.2	6.7	6.4E	7.8E	8.5	8.7	7.2	6.9	5.6	4.2	3.1
21	5.8	7.2	6.9	6.4E	7.8E	8.5	8.7	6.9	6.3	5.3	4.7	3.3
22	5.8	7.0E	6.9	6.4E	8.0E	8.5	9.0	6.7	6.3	5.3	4.2	4.2
23	5.6	6.8E	6.9	6.6E	8.2E	8.6	8.7	6.4	5.7	6.2	4.1	4.8
24	5.9	6.6E	7.1	6.6E	8.2	8.6	9.6	6.0	5.4	6.4	3.6	4.1
25	6.1	6.6	7.5	6.6E	8.1	8.7	9.0	5.8	7.0	6.1	4.0	4.0
26	6.2	6.6	7.4	6.8E	8.2	8.7	9.5	5.7	7.9	5.5	4.1	4.4
27	6.5	6.6	7.4	7.0E	8.2	11	9.3	5.3	8.7	5.3	4.1	4.5
28	6.6	6.6	7.4	7.0E	8.1	9.9	8.5	5.3	7.3	7.4	4.0	4.8
29	6.6	6.8	7.5	6.8E	10	9.1	8.1	4.9	6.8	7.5	4.0	5.0
30	6.5	6.8	7.6E	6.0E	-----	9.0	8.6	5.3	6.1	7.1	3.8	5.4
31	6.5	-----	7.7	6.0E	-----	8.8	-----	5.8	-----	5.3	4.2	-----
TOTAL	176.0	206.7	211.6	204.3	222.8	273.4	274.9	225.9	172.6	207.2	148.4	116.6
MEAN	5.68	6.89	6.83	6.59	7.68	8.82	9.16	7.29	5.75	6.68	4.79	3.89
MAX	6.6	7.3	7.7	8.1	10	11	10	15	8.7	12	7.6	5.4
MIN	4.5	6.5	6.3	5.2	6.2	8.4	8.1	4.9	3.4	5.0	3.6	3.1
AC-FT	349	410	420	405	442	542	545	448	342	411	294	231
CAL YEAR 2003 TOTAL		3,001.30	MEAN	8.22	MAX	36	MIN	3.8	AC-FT	5,950		
WTR YEAR 2004 TOTAL		2,440.40	MEAN	6.67	MAX	15	MIN	3.1	AC-FT	4,840		

E indicates estimated discharge.

**CENTER CREEK at Franklin, 06851000 - 2004**

LOCATION.--SE1/4SW1/4 Sec. 36-2-15 W. at Franklin, Franklin County, Latitude 40°05'33", Longitude 98°57'53", on the left bank at the downstream side of the Franklin County bridge at the southwest edge of Franklin, Nebraska.

GAGE.--Continuous stage recorder. Gage Datum is 1828.50 feet above sea level.

PERIOD OF RECORD.--1948 - 1956, Annual peaks and occasional low flow measurements 1961 - 1968, 1968 - 1975, 1977 - 1994, 2003 - present.

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1993. Station location is about 1.7 miles downstream of the old station location. Records are fair, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 3,150 cubic feet per second September 20, 1950 at gage height 6.80 ft. Minimum daily discharge zero August 29, 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharge 160 cubic feet per second May 18, gage height 3.38 feet; minimum daily discharge 1.5 cubic feet per second August 14.

**DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	4.4	5.3	5.6	4.0E	7.1	5.9	8.0	4.8	9.5	4.0	3.0
2	5.3	4.4	5.6	5.6	4.3E	6.4	5.2	7.8	3.8	8.6	4.1	3.2
3	4.7	5.3	5.5	6.0E	4.5E	6.7	5.6	8.1	3.4	5.3	3.1	3.2
4	4.7	4.7	5.2E	4.1E	4.5E	7.7	6.2	7.3	2.1	4.3	3.1	3.2
5	4.8	5.1	5.2E	3.9E	4.9E	8.7	6.8	6.6	4.2	6.1	2.9	4.0
6	4.9	5.2	5.0E	3.8E	5.0E	7.5	6.7	6.2	3.5	5.8	3.4	4.1
7	4.6	5.5	5.0E	3.8E	5.0E	6.8	6.5	5.4	3.4	5.0	5.8	3.9
8	4.4	6.0	5.0E	4.4E	4.0E	6.6	6.6	3.7	4.2	5.1	6.3	3.8
9	4.5	5.5	5.0E	4.9E	5.0E	6.4	7.0	7.0	3.5	12	5.4	3.9
10	4.0	4.5	5.0E	5.2E	6.4E	6.4	7.6	5.7	4.6	7.8	4.8	3.8
11	4.4	4.5	4.9E	6.0E	6.4E	6.7	8.2	5.1	4.3	8.2	3.0	3.4
12	4.7	4.8	4.9E	6.1	6.2E	7.2	9.5	4.9	2.9	4.6	3.1	2.8
13	4.6	5.9	5.0E	6.1	6.2E	7.1	8.5	5.5	3.8	4.2	2.0	2.4
14	4.8	5.8	5.2E	5.7	6.2E	6.7	8.2	5.7	4.2	4.0	1.5	3.0
15	5.1	5.4	5.4E	5.7	6.8E	6.6	5.5	5.3	6.1	4.0	3.5	2.9
16	5.4	5.4	5.6E	5.2	6.8E	6.5	7.5	4.6	7.2	3.9	7.2	2.6
17	5.3	4.8	5.6E	5.1	7.4	5.6	7.9	4.6	5.4	4.2	5.1	2.6
18	4.7	5.1	5.6E	4.6	6.7	5.3	7.7	36	5.7	3.4	3.3	2.9
19	4.4	5.5	5.8E	5.0E	8.0	5.4	8.0	11	6.2	2.9	3.6	2.5
20	4.3	5.2E	5.9	5.6E	11	5.2	8.5	6.6	6.2	2.4	3.8	2.9
21	4.5	5.2E	5.6	5.4	7.2	5.6	11	5.9	6.2	2.6	3.8	3.7
22	4.8	5.0E	4.9	5.3	6.9	6.0	11	5.7	6.0	3.0	2.8	8.8
23	4.9	4.8E	5.8	5.6E	7.1	5.7	9.1	5.7	5.1	3.3	2.2	6.9
24	4.3	4.5E	6.0	5.2E	7.4	5.6	11	10	5.0	3.9	4.3	4.8
25	4.5	4.6E	6.0	5.0E	7.8	4.9	9.5	10	4.9	5.0	5.2	4.8
26	4.7	4.9E	5.5	5.0E	7.6	5.4	9.1	9.0	5.3	4.1	4.8	4.4
27	4.1	5.0E	6.1	4.1E	6.9	7.7	8.5	8.0	7.3	3.6	4.3	7.9
28	3.9	5.0E	6.3	4.0E	6.6	6.3	8.0	7.0	4.3	4.0	3.2	6.9
29	4.2	5.0E	6.1	4.3E	10	5.9	7.9	6.0	4.0	4.5	4.9	5.4
30	3.9	5.0E	6.4	4.4E	-----	5.9	8.8	5.1	5.4	4.5	5.2	5.8
31	3.7	-----	6.2	4.2E	-----	6.1	-----	5.1	-----	3.3	3.2	-----
TOTAL	142.6	152.0	170.6	154.9	186.8	197.7	237.5	232.6	143.0	153.1	122.9	123.5
MEAN	4.60	5.07	5.50	5.00	6.44	6.38	7.92	7.50	4.77	4.94	3.96	4.12
MAX	5.5	6.0	6.4	6.1	11	8.7	11	36	7.3	12	7.2	8.8
MIN	3.7	4.4	4.9	3.8	4.0	4.9	5.2	3.7	2.1	2.4	1.5	2.4
AC-FT	283	301	338	307	371	392	471	461	284	304	244	245
CAL YEAR 2003 TOTAL		2,038.70	MEAN	5.59	MAX	40	MIN	1.2	AC-FT	4,040		
WTR YEAR 2004 TOTAL		2,017.20	MEAN	5.51	MAX	36	MIN	1.5	AC-FT	4,000		

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

**FRANKLIN PUMP CANAL from Republican River, 00054000 - 2004**

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
-----												
NO WATER WAS DIVERTED IN 2004.												
CAL YEAR 2003	MAX	39	MIN	0	AC-FT	1,680						
WTR YEAR 2004	MAX	0	MIN	0	AC-FT	0						

**REPUBLICAN RIVER at Riverton, 06851090 - 2004**

LOCATION.--NE1/4NE1/4 Sec. 3-1-13 W., Franklin County, Latitude 40° 05' 20", Longitude 98° 45' 54", on the left, upstream side of the Franklin County Road near the west edge of Riverton, NE.

GAGE.--Continuous stage recorder.

DRAINAGE AREA.--21,300 square miles

PERIOD OF RECORD.--USGS miscellaneous site 1963 - 1967, crest-stage gage 1970 - 1978, Department of Natural Resources continuous record 2003.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 449 cubic feet per second May 18, gage height 4.10 feet; minimum daily discharge zero on August 27, 28 and September 1 - 22.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	21	27	24E	18E	75	45	43	23	26	8.1	0 E
2	15	23	26	23E	19E	60	44	39	22	36	7.2	0 E
3	15	28	27	22E	19E	55	43	37	21	29	5.9	0 E
4	15	27	26	21E	19E	56	44	35	20	23	4.5	0 E
5	14	25	24E	18E	19E	71	42	34	19	26	4.0	0 E
6	14	24	19E	16E	20E	59	42	32	21	28	3.7	0 E
7	15	25	20E	17E	20E	51	46	32	19	25	4.1	0 E
8	15	25	21E	20E	20E	48	44	30	18	24	4.9	0 E
9	15	25	21E	20E	20E	46	41	43	17	32	4.6	0 E
10	15	26	22E	20E	18E	45	43	45	18	38	4.0	0 E
11	19	26	21E	22E	19E	44	41	41	18	46	4.8	0 E
12	18	27	21E	25E	20E	43	45	36	16	49	2.4	0 E
13	17	26	21E	26E	20E	43	46	36	14	34	2.0	0 E
14	18	27	22E	30E	19E	42	41	37	13	26	1.5	0 E
15	17	27	23E	32E	18E	41	37	37	17	23	1.9	0 E
16	18	27	23E	34E	20E	41	34	38	31	19	3.0	0 E
17	19	28	24E	36E	20E	40	35	38	24	16	4.5	0 E
18	18	27	24E	38E	20E	39	34	225	22	15	2.6	0 E
19	18	26	25E	40E	20E	40	34	114	22	13	1.7	0 E
20	16	26	25E	46E	20E	38	34	53	21	12	1.6	0 E
21	16	27	25E	50E	21E	39	34	44	20	9.1	.91	0 E
22	17	25E	25E	50E	29E	40	42	38	19	11	.37	0 E
23	17	23E	26E	46E	30E	40	40	36	17	11	.22	3.0E
24	17	22E	25E	42E	31E	39	45	34	14	14	.15E	7.9
25	18	23E	25E	40E	34E	38	48	33	12	15	.10E	3.6
26	19	23E	25E	40E	44E	37	42	31	14	13	.10E	2.2
27	20	24E	25E	32E	44E	49	39	29	27	10	0 E	2.3
28	20	25E	26E	28E	50E	54	36	27	23	11	0 E	5.8
29	20	26E	26E	19E	60	49	36	25	19	12	.10E	5.2
30	20	28	25E	17E	-----	46	41	24	16	14	.10E	4.7
31	21	-----	25E	18E	-----	46	-----	24	-----	11	.10E	-----
TOTAL	532	762	740	912	731	1,454	1,218	1,370	577	671.1	79.15	34.7
MEAN	17.2	25.4	23.9	29.4	25.2	46.9	40.6	44.2	19.2	21.6	2.55	1.16
MAX	21	28	27	50	60	75	48	225	31	49	8.1	7.9
MIN	14	21	19	16	18	37	34	24	12	9.1	0	0
AC-FT	1,060	1,510	1,470	1,810	1,450	2,880	2,420	2,720	1,140	1,330	157	69
CAL YEAR 2003 TOTAL		28,164.00	MEAN	77.2	MAX	1,100	MIN	6.7	AC-FT	55,860		
WTR YEAR 2004 TOTAL		9,080.95	MEAN	24.8	MAX	225	MIN	0	AC-FT	18,010		

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

## THOMPSON CREEK at Riverton, 06851500 - 2004

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 970 cubic feet per second May 18, gage height 8.00 feet; minimum daily discharge 9.4 cubic feet per second September 13 & 14.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	13	16	21	13E	24	17	17	16	17	17	12
2	12	13	16	22	14E	19	17	16	16	77	16	13
3	12	16	16	20E	13E	20	17	16	16	23	15	13
4	12	13	15E	19E	13E	21	16	16	16	18	18	11
5	12	11	13E	15E	13E	29	17	15	19	20	19	14
6	12	11	12E	13E	12E	23	19	16	18	20	17	11
7	13	11	13E	13E	12E	21	22	15	16	18	17	11
8	14	11	13E	14E	12E	20	20	15	16	17	14	11
9	14	11	14E	14E	13E	20	20	19	17	39	14	11
10	14	12	14E	15E	13E	19	20	16	17	41	17	10
11	16	12	14E	15E	13E	18	18	16	16	22	16	10
12	14	13	15E	15E	13E	18	19	15	16	18	14	10
13	14	12	15E	15	14E	19	19	16	16	17	14	9.4
14	14	14	15	15	14E	18	19	15E	14	16	15	9.4
15	14	14	16	15	14E	19	20	15E	41	15	13	14
16	14	14	16	15E	14E	19	20	16E	49	15	16	12
17	13	15	16	14E	16E	19	20	17E	19	16	20	11
18	13	14	17	13E	19E	19	20	502	14	19	14	12
19	14	14	17	13E	23E	19	20	192	14	15	12	11
20	13	15	17	14E	25E	19	20	30	13	15	14	12
21	13	14	17	15	25E	18	19	19	13	18	13	12
22	13	13	18	15	23E	17	19	17	12	21	12	15
23	13	12	18	15	20E	17	19	17	11	19	15	22
24	13	14	17	14	17E	18	22	22	11	19	14	14
25	13	14	18	14E	14E	18	20	18	11	19	16	13
26	13	14	19	13E	11	18	18	17	15	16	13	13
27	13	15	21	12E	12	23	18	18	37	15	12	14
28	13	15	20	12E	15	20	18	17	18	19	12	15
29	13	15	20	12E	23	19	18	17	15	20	12	14
30	13	16	20	12E	-----	18	19	16	15	23	13	15
31	13	-----	20	13E	-----	17	-----	17	-----	19	13	-----
TOTAL	409	401	508	457	453	606	570	1,190	537	666	457	374.8
MEAN	13.2	13.4	16.4	14.7	15.6	19.5	19.0	38.4	17.9	21.5	14.7	12.5
MAX	16	16	21	22	25	29	22	502	49	77	20	22
MIN	12	11	12	12	11	17	16	15	11	15	12	9.4
AC-FT	811	795	1,010	906	899	1,200	1,130	2,360	1,070	1,320	906	743
CAL YEAR 2003 TOTAL		6,101.70	MEAN	16.7	MAX	110	MIN	9.0	AC-FT	12,100		
WTR YEAR 2004 TOTAL		6,628.80	MEAN	18.1	MAX	502	MIN	9.4	AC-FT	13,150		

E indicates estimated discharge.



**ELM CREEK at Amboy, 06852000 - 2004**

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 1,160 cubic feet per second May 18, gage height 13.58 feet; minimum daily discharge 7.2 cubic feet per second September 14.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	11	12	12	11E	16	12	11	11	15	10	8.1
2	9.7	12	12	12	12E	15	11	11	11	71	11	7.9
3	9.5	13	12	12	12	14	11	11	11	87	11	8.0
4	9.4	13	12	12	12	15	11	11	11	26	10	8.1
5	9.4	12	12	12E	12	18	11	11	11	27	9.8	8.9
6	9.5	11	12	12E	12	16	11	11	11	26	9.7	8.7
7	9.7	11	12	11	12	15	12	12	11	34	9.7	8.6
8	9.8	11	12	11	13	14	12	12	11	21	9.7	8.5
9	10	11	12	11	13	14	12	16	11	27	9.7	8.0
10	9.8	11	11	12	13	14	12	15	12	28	9.7	7.4
11	11	11	11	12	13	13	12	15	11	19	9.9	7.6
12	10	11	11	12	13	13	12	15	12	15	9.7	8.2
13	10	11	11	11	13	13	12	17	12	13	9.3	7.6
14	11	11	11	11	13	13	12	16	11	13	9.2	7.2
15	10	11	11	12	13	13	13	17	17	13	9.5	8.6
16	10	11	11	12	13	13	12	17	64	13	9.7	8.2
17	10	11	11	12	13	13	12	17	38	12	9.3	8.2
18	10	10	11	12	13	13	12	462	17	12	8.9	8.1
19	10	10	11	11	14	13	12	179	15	12	8.8	7.8
20	10	11	11	11	17	13	12	27	14	12	8.9	7.9
21	10	11	11	12	16	13	12	18	14	12	8.4	8.1
22	10	11	11	12	28	13	12	14	14	12	8.1	9.9
23	11	11	12	12	25	13	12	13	14	12	8.3	23
24	11	11	11	12	19	13	13	11	14	12	8.9	20
25	11	11	12	12E	15	13	12	11	14	12	8.9	13
26	11	11	12	11E	14	13	11	11	16	12	8.7	10
27	11	11	12	11E	14	15	11	11	40	12	8.5	9.7
28	11	11	12	11E	14	14	11	11	36	12	8.7	9.7
29	11	12	12	10E	16	14	11	11	18	12	8.2	9.7
30	11	12	12	10E	-----	13	11	11	15	11	7.9	9.8
31	11	-----	11	11E	-----	13	-----	11	-----	11	7.8	-----
TOTAL	317.8	336	357	357	418	428	352	1,036	517	626	285.9	284.5
MEAN	10.3	11.2	11.5	11.5	14.4	13.8	11.7	33.4	17.2	20.2	9.22	9.48
MAX	11	13	12	12	28	18	13	462	64	87	11	23
MIN	9.4	10	11	10	11	13	11	11	11	11	7.8	7.2
AC-FT	630	666	708	708	829	849	698	2,050	1,030	1,240	567	564
CAL YEAR 2003	TOTAL	5,115.70	MEAN	14.0	MAX	237	MIN	4.3	AC-FT	10,150		
WTR YEAR 2004	TOTAL	5,315.20	MEAN	14.5	MAX	462	MIN	7.2	AC-FT	10,540		

E indicates estimated discharge.

# REPUBLICAN RIVER BASIN

## COURTLAND CANAL from Republican River, 00031000 - 2004

LOCATION.--SE1/4SE1/4 Sec. 7-1-9 W. near Guide Rock

GAGE.--Continuous stage recorder and orifice

PERIOD OF RECORD.--2004, 1952 - 2003 partial year records

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

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	73	70E	0	95	80	20	28	0	0
2	0	0	0	75	70E	0	92	75	8.8	44	0	0
3	0	0	0	76	65E	0	90	73	4.3	52	0	0
4	0	0	0	77	60E	0	92	71	1.8	50	0	0
5	0	0	0	75	60E	0	93	68	0	50	0	0
6	0	0	0	75	60E	0	101	65	0	50	0	0
7	0	0	0	75	60E	0	101	63	0	51	0	0
8	0	0	0	75	60E	0	96	69	0	51	0	0
9	0	0	0	74	60E	0	95	77	0	51	0	0
10	0	0	0	73	60E	0	92	76	0	51	2.5	0
11	0	0	0	73	60E	0	94	74	0	51	14	0
12	0	0	0	73	60E	0	99	70	0	54	0	0
13	0	0	0	71	60E	0	100	60	0	57	0	0
14	0	0	0	69	60E	0	99	63	0	59	0	0
15	0	0	0	73	70E	0	96	66	2.5	49	0	3.2
16	0	0	0	72	75E	0	91	69	24	33	0	6.0
17	0	0	0	70	75E	0	91	76	58	24	0	6.0
18	0	0	0	69	75E	0	88	78	80	20	0	6.0
19	0	0	0	68	25E	0	88	78	51	15	0	6.0
20	0	0	0	71	0	0	86	77	43	14	0	6.0
21	0	0	0	76	0	0	84	77	44	7.7	0	6.0
22	0	0	0	71	0	68	92	76	37	4.4	0	6.0
23	0	0	0	84	0	96	100	65	21	0	0	49
24	0	0	0	82	0	96	104	40	14	0	19	39
25	0	0	0	90	0	95	103	41	11	0	30	28
26	0	0	0	73	0	101	95	41	4.2	0	22	22
27	0	0	0	70E	0	114	91	41	34	20	0	20
28	0	0	0	70E	0	114	62	41	88	9.6	0	20
29	0	0	0	70E	0	105	65	40	74	0	0	20
30	0	0	0	70E	-----	98	68	40	37	0	6.1	21
31	0	-----	0	70E	-----	96	-----	40	-----	0	0	-----
TOTAL	0	0	0	2,283	1,185	983	2,743	1,970	657.6	895.7	93.6	264.2
MEAN	0	0	0	73.6	40.9	31.7	91.4	63.5	21.9	28.9	3.02	8.81
MAX	0	0	0	90	75	114	104	80	88	59	30	49
MIN	0	0	0	68	0	0	62	40	0	0	0	0
AC-FT	0	0	0	4,530	2,350	1,950	5,440	3,910	1,300	1,780	186	524
WTR YEAR 2004	TOTAL	11,075.10	MEAN	30.3	MAX	114	MIN	0	AC-FT	21,970		

E indicates estimated discharge.

## SUPERIOR CANAL from Republican River, 00137000 - 2004

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 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	30	30	37	6.5
2								0	37	28	31	5.6
3								0	39	23	26	5.2
4								0	42	22	22	5.3
5								0	42	21	20	7.7
6								0	41	20	19	8.2
7								0	40	20	18	7.6
8								0	38	18	18	7.1
9								0	36	18	18	5.6
10								0	36	18	19	5.1
11								0	34	19	21	5.1
12								0	33	53	20	5.7
13								0	30	40	18	5.5
14								0	28	29	15	6.1
15								0	36	29	15	8.4
16								0	45	35	17	2.8
17								0	34	42	19	0
18								0	23	37	17	0
19								0	22	43	15	0
20								0	23	42	15	0
21								0	21	40	14	0
22								0	20	42	12	0
23								0	31	43	11	0
24								40	40	43	12	0
25								40	39	46	10	0
26								38	39	46	10	0
27								36	36	39	9.2	0
28								33	28	37	8.5	0
29								32	23	41	8.4	0
30					-----			31	26	42	8.0	0
31		-----			-----		-----	29	-----	42	7.1	-----
TOTAL								279	992	1,048	510.2	97.5
MEAN								9.00	33.1	33.8	16.5	3.25
MAX								40	45	53	37	8.4
MIN								0	20	18	7.1	0
AC-FT								553	1,970	2,080	1,010	193
CAL YEAR 2003	MAX	96	MIN	0	AC-FT	8,170						
WTR YEAR 2004	MAX	53	MIN	0	AC-FT	5,810						

# BIG BLUE RIVER BASIN

## BIG BLUE RIVER at Surprise, 06879900 - 2004

LOCATION.--NW1/4NW1/4 Sec. 15-13-1 E., Butler County, Lat. 41° 06' 05", Long. 97° 18' 35", on left bank 50 feet downstream from bridge on county road at south edge of Surprise.

DRAINAGE AREA.--345 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,522.84 feet above mean sea level.

PERIOD OF RECORD.--1964 - present (Published as North Branch Big Blue River at Surprise WY 1964)

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1993. Records are fair, except records above 5 cubic feet per second are good and estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 10,700 cubic feet per second July 19, 1965, gage height 11.52 feet; no flow for many days in many years.

EXTREMES FOR CURRENT YEAR.--Peak discharge 76 cubic feet per second July 10, gage height 2.27 feet; no flow for many days.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	0	0	0	0	.01E	40	.32	.28	.54	.56	3.6	.17	
2	0	0	0	0	.01E	26	.31	.27	.06	2.6	1.6	.16	
3	0	0	0	0	.01E	18	.16	.30	.05	3.1	.25	.35	
4	0	.06	0	0	.01E	10	.13	.35	.02	2.0	.55	.94	
5	0	.04	0	0	.01E	38	.14	.34	.03	1.0	2.0	1.1	
6	0	.03	0	0	.01E	20	.14	.14	.04	4.0	2.5	.76	
7	0	.02	0	0	.01E	13	.15	.12	.03	20	3.8	.43	
8	0	0	0	0	.01E	8.2	.07	.19	0	31	3.4	.21	
9	0	0	0	0	E	.01E	4.9	.08	.40	0	21	1.3	.10
10	0	0	0	0	E	.01E	2.8	.08	1.8	0	56	.75	.04
11	0	0	E	0	.01E	.01E	1.6	.09	.39	0	64	.33	0
12	0	0	E	0	.01E	.02E	1.1	.10	.26	.01	35	.90	0
13	0	0	0	E	.01E	.02E	.97	.13	.53	.04	16	1.2	0
14	0	0	0	E	.02E	.02E	.78	.10	.47	.02	8.5	1.2	0
15	0	0	0	E	.01E	.03E	1.0	.11	.37	.01	5.0	.87	.05
16	0	0	.01E	.01E	.04E	.82	.15	.40	.04	3.2	.37	.01	
17	0	0	E	.01E	.01E	.06E	.89	.17	.44	.14	2.0	.36	0
18	0	0	E	.01E	.01E	.06E	1.4	.19	.44	.14	1.1	1.9	0
19	0	0	0	E	.01E	.10E	1.6	.10	.47	.11	1.4	1.2	0
20	0	0	0	E	.01E	.10E	1.1	.17	.46	.10	.31	.04	0
21	0	0	0	E	.01E	.20E	.55	.16	.46	12	.26	0	0
22	0	0	0	E	.01E	.40E	.24	.30	.43	47	.73	0	0
23	0	0	0	E	.01E	1.0 E	.29	.39	.56	35	1.4	0	0
24	0	0	0	E	.01E	2.0 E	.58	.83	40	18	1.2	.08	0
25	0	0	0	.01E	6.0 E	.64	.36	16	5.2	.65	0	0	
26	0	0	0	.01E	4.4	.72	.16	7.2	2.2	.43	0	0	
27	0	0	0	.01E	4.0	1.1	.13	4.2	1.7	.01	0	0	
28	0	0	0	.01E	4.5	.54	.18	2.1	1.2	.79	0	0	
29	0	0	0	.01E	7.6	.23	.15	1.2	.79	1.4	.40	0	
30	0	0	0	.01E	-----	.18	.18	3.2	.56	1.4	1.1	0	
31	0	-----	0	.01E	-----	.19	-----	3.6	-----	2.9	.53	-----	
TOTAL	0	0.15	0.03	0.22	30.66	197.42	5.73	87.37	125.03	288.94	30.23	4.32	
MEAN	0	.005	.001	.007	1.06	6.37	.19	2.82	4.17	9.32	.98	.14	
MAX	0	.06	.01	.02	7.6	40	.83	40	47	64	3.8	1.1	
MIN	0	0	0	0	.01	.18	.07	.12	0	.01	0	0	
AC-FT	0	.3	.06	.4	61	392	11	173	248	573	60	8.6	
CAL YEAR 2003 TOTAL		2,060.50	MEAN	5.65	MAX	216	MIN	0	AC-FT	4,090			
WTR YEAR 2004 TOTAL		770.10	MEAN	2.10	MAX	64	MIN	0	AC-FT	1,530			

E indicates estimated discharge.

**LINCOLN CREEK near Seward, 06880000 - 2004**

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 346 cubic feet per second June 21, gage height 9.31 feet; minimum daily discharge 3.7 cubic feet per second August 6.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	8.3	9.1	11 E	10E	114	15	14	40	12	6.9	7.2
2	8.7	8.5	9.3	10 E	10E	65	15	14	28	13	7.2	6.7
3	8.6	9.0	9.1	9.4E	10E	40	15	14	23	14	6.6	6.3
4	8.4	12	9.0	8.8E	10E	36	15	14	21	13	6.1	6.0
5	8.4	9.0	8.6E	9.0E	10E	191	15	14	19	13	4.7	5.9
6	8.3	8.4	9.0E	9.4E	11E	91	15	14	18	13	3.7	6.7
7	8.2	8.3	9.1	9.6E	11E	52	15	14	17	16	5.0	6.4
8	8.4	8.2	9.0E	9.8E	12E	38	15	13	16	28	4.6	6.2
9	8.3	8.1	8.2E	9.8E	12E	31	15	14	16	41	5.4	6.0
10	8.4	8.4	8.0E	10 E	13E	29	15	41	16	31	4.9	6.2
11	8.9	8.5	8.0E	11 E	13E	26	15	33	15	20	4.9	6.1
12	9.4	8.5	8.4E	11 E	13E	25	15	35	15	18	5.3	6.4
13	9.2	8.5	9.0E	11 E	13E	26	15	28	15	16	6.0E	6.4
14	12	8.1	9.0E	11 E	13E	23	15	26	14	15	7.0E	6.3
15	9.1	8.3	9.2E	11 E	14E	21	15	22	14	14	8.0E	6.8
16	8.6	8.3	9.8E	11 E	15E	20	15	21	14	13	10 E	7.0
17	8.7	8.1	10 E	10 E	17E	19	15	21	14	16	9.8	6.5
18	8.6	8.2	10 E	10 E	19E	18	15	21	14	14	7.7	6.2
19	8.6	8.1	10 E	10 E	20E	17	14	20	14	11	6.8	6.2
20	8.5	8.1	10 E	11 E	33E	17	14	21	14	10	6.3	6.1
21	8.4	8.2	11 E	11 E	50E	16	14	21	149	9.4	5.9	6.1
22	8.4	8.0E	11 E	12 E	140E	16	14	21	19	9.5	5.7	6.4
23	8.6	8.0E	10 E	13 E	130	15	14	23	16	11	6.4	6.9
24	8.4	8.0E	9.4E	12 E	72	15	14	22	16	10	6.9	7.3
25	8.3	7.4E	9.4E	11 E	41	15	15	25	15	11	8.0	6.8
26	8.4	8.0E	10 E	10 E	21	15	14	23	14	12	8.4	6.6
27	8.4	8.4E	11 E	9.8E	18	16	14	22	14	10	7.1	6.5
28	8.5	8.6E	11 E	9.6E	19	19	14	21	14	8.4	7.6	6.4
29	8.5	8.6E	11 E	9.6E	21	16	14	21	14	8.1	8.0	6.5
30	8.5	8.8E	11 E	9.6E	-----	15	14	89	14	8.7	8.4	6.5
31	8.3	-----	11 E	9.6E	-----	15	-----	37	-----	7.8	7.7	-----
TOTAL	268.8	252.9	297.6	321.0	791	1,072	439	739	642	446.9	207.0	193.6
MEAN	8.67	8.43	9.60	10.4	27.3	34.6	14.6	23.8	21.4	14.4	6.68	6.45
MAX	12	12	11	13	140	191	15	89	149	41	10	7.3
MIN	8.2	7.4	8.0	8.8	10	15	14	13	14	7.8	3.7	5.9
AC-FT	533	502	590	637	1,570	2,130	871	1,470	1,270	886	411	384
CAL YEAR 2003 TOTAL		9,037.60	MEAN	24.8	MAX	613	MIN	7.4	AC-FT	17,930		
WTR YEAR 2004 TOTAL		5,670.80	MEAN	15.5	MAX	191	MIN	3.7	AC-FT	11,250		

E indicates estimated discharge.

## BIG BLUE RIVER BASIN

## BIG BLUE RIVER at Seward, 06880500 - 2004

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 716 cubic feet per second June 21, gage height 6.76 feet; minimum daily discharge 3.1 cubic feet per second August 10.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	10	9.8E	11 E	11E	235	39	26	143	10	8.9	6.1
2	9.9	11	9.4E	10 E	10E	284	36	28	81	9.6	8.6	6.4
3	9.6	12	9.2E	10 E	10E	186	33	23	61	15	7.8	6.3
4	9.7	25	9.4E	8.4E	11E	126	31	26	50	17	7.2	5.3
5	9.2	17	9.6E	9.0E	11E	354	31	26	43	18	4.9	4.9
6	9.0	13	9.8E	9.6E	11E	330	30	25	38	26	4.4	6.0
7	8.9	13	10 E	10 E	10E	184	30	23	35	22	4.6	6.3
8	8.8	13	10 E	9.8E	11E	116	29	22	41	63	5.9	5.1
9	9.4	12	10 E	11 E	12E	89	29	25	41	77	5.6	5.2
10	9.4	12	9.2E	12 E	13E	78	29	86	34	91	3.1	7.2
11	10	12	8.6E	14 E	13E	68	26	85	31	62	6.5	6.8
12	11	12	8.0E	14 E	13E	60	26	63	30	79	5.5	6.0
13	11	11	9.0E	15 E	13E	58	26	47	29	112	7.7	6.2
14	18	11	9.8E	15 E	13E	51	27	45	25	70	8.4	5.9
15	14	11	10 E	15 E	14E	47	26	40	24	44	7.4	6.7
16	11	11	11 E	13 E	16E	45	25	31	27	27	11	7.9
17	10	12	12 E	11 E	21E	44	24	28	27	28	11	7.2
18	9.7	12	13 E	11 E	23E	46	23	28	27	20	8.2	6.8
19	9.7	12	13 E	10 E	27E	43	26	26	25	12	5.4	6.0
20	9.5	13	13 E	10 E	36E	42	25	25	24	7.3	5.6	5.9
21	9.2	12	12 E	11 E	54E	40	26	24	378	6.1	5.5	5.3
22	9.0	11 E	10 E	12 E	145E	34	25	22	71	9.5	4.6	6.3
23	9.4	9.2E	9.8E	13 E	220	32	24	23	78	12	5.2	8.1
24	9.7	9.2E	9.8E	12 E	228	32	27	40	83	18	5.6	9.2
25	9.2	9.2E	10 E	11 E	189	31	29	47	69	23	6.5	8.4
26	9.4	9.2E	11 E	10 E	110	30	28	36	55	23	9.7	7.5
27	9.6	9.0E	11 E	10 E	72	37	28	46	41	17	11	8.1
28	9.8	9.6E	12 E	10 E	70	45	33	40	34	11	9.6	7.5
29	10	9.8E	12 E	10 E	80	46	27	39	25	8.8	10	7.4
30	9.8	10 E	12 E	10 E	-----	50	23	164	16	9.7	10	7.5
31	9.9	-----	11 E	11 E	-----	43	-----	171	-----	8.6	5.5	-----
TOTAL	312.8	353.2	324.4	348.8	1,467	2,906	841	1,380	1,686	956.6	220.9	199.5
MEAN	10.1	11.8	10.5	11.3	50.6	93.7	28.0	44.5	56.2	30.9	7.13	6.65
MAX	18	25	13	15	228	354	39	171	378	112	11	9.2
MIN	8.8	9.0	8.0	8.4	10	30	23	22	16	6.1	3.1	4.9
AC-FT	620	701	643	692	2,910	5,760	1,670	2,740	3,340	1,900	438	396
CAL YEAR 2003	TOTAL	14,030.90	MEAN	38.4	MAX	822	MIN	8.0	AC-FT	27,830		
WTR YEAR 2004	TOTAL	10,996.20	MEAN	30.0	MAX	378	MIN	3.1	AC-FT	21,810		

E indicates estimated discharge.

**TURKEY CREEK near Wilber, 06881200 - 2004**

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 fair, 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 4,560 cubic feet per second May 23, gage height 16.32 feet; minimum daily discharge 0.53 cubic feet per second September 30.

**DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	2.5E	2.1	3.5	.60E	376	29	11	200	30	10	6.3
2	4.7	2.9E	2.4	3.0	.60E	532	23	12	117	39	9.4	4.0
3	2.6	5.0E	2.5	2.4 E	.60E	307	20	11	59	33	11	2.6
4	5.4	12 E	2.4	1.5 E	.60E	156	18	11	43	103	8.9	2.1
5	5.2	20 E	2.1E	1.3 E	.64E	809	17	10	35	98	7.5	1.6
6	3.7	19 E	2.1E	.90E	.70E	1,070	16	10	30	124	10	1.1
7	2.0	15 E	2.2E	.90E	.70E	804	15	11	27	72	12	.82
8	1.4	12 E	2.2E	1.0 E	.70E	436	15	11	24	48	13	.80
9	2.0	10 E	1.9E	1.0 E	.75E	175	15	12	21	38	9.0	.72
10	1.7	7.8E	1.7E	1.1 E	.82E	97	15	13	21	42	8.0E	.72
11	2.0E	6.0E	1.5E	1.3	.82E	68	15	13	19	138	8.0E	.89
12	2.1E	4.8E	1.5E	1.7	.80E	57	13	14	87	150	8.0E	.87
13	2.2E	4.0E	1.5E	2.2	.90E	47	12	13	1,920	116	8.0E	1.2
14	2.3E	3.8E	1.7E	2.9	.90E	42	12	12	2,960	91	6.0E	.92
15	2.4E	3.7E	1.9E	4.2	.95E	38	12	14	2,250	47	7.0E	1.2
16	2.3E	2.8E	2.2E	4.4	1.0 E	36	13	15	1,340	33	6.0E	.86
17	2.3E	2.6E	2.4E	4.4	1.1 E	32	13	14	1,300	27	5.0E	.74
18	2.3E	2.5E	2.9E	3.6 E	1.2 E	30	12	308	508	23	4.0E	.72
19	2.4E	2.3E	2.9E	2.6 E	1.7 E	28	12	1,010	251	20	4.0E	.69
20	2.3E	2.0E	2.8	2.4 E	3.2 E	24	11	797	137	19	3.0E	.89
21	2.2E	2.0E	2.7	2.0 E	8.0 E	23	11	261	100	18	3.0E	.84
22	2.2E	1.8E	2.9	1.7 E	27 E	21	11	146	76	17	3.0E	1.1
23	2.2E	1.7E	2.9	1.4 E	87	20	12	2,960	55	14	3.0E	1.0
24	2.2E	1.5E	3.0	1.2 E	172	19	13	2,130	44	11	3.0E	.82
25	2.2E	1.5E	3.1	1.0 E	117	19	14	1,500	39	12	3.0E	.72
26	2.2E	1.6E	3.1	.88E	137	18	13	299	34	13	3.0E	.67
27	2.3E	1.6E	3.1	.72E	98	96	14	146	31	14	3.0E	.73
28	2.2E	1.7	3.4	.68E	32	61	11	96	29	13	3.0E	.66
29	2.2E	1.8	3.6	.60E	32	45	11	73	31	15	4.0E	.58
30	2.2E	1.7	3.8	.60E	-----	35	11	57	31	13	4.0E	.53
31	2.3E	-----	3.5	.60E	-----	37	-----	174	-----	12	5.0E	-----
TOTAL	82.8	157.6	78.0	57.68	729.28	5,558	429	10,164	11,819	1,443	194.8	37.39
MEAN	2.67	5.25	2.52	1.86	25.1	179	14.3	328	394	46.5	6.28	1.25
MAX	7.1	20	3.8	4.4	172	1,070	29	2,960	2,960	150	13	6.3
MIN	1.4	1.5	1.5	.60	.60	18	11	10	19	11	3.0	.53
AC-FT	164	313	155	114	1,450	11,020	851	20,160	23,440	2,860	386	74
CAL YEAR 2003 TOTAL		13,036.15	MEAN	35.7	MAX	2,810	MIN	.70	AC-FT	25,860		
WTR YEAR 2004 TOTAL		30,750.55	MEAN	84.0	MAX	2,960	MIN	.53	AC-FT	60,990		

E indicates estimated discharge.

# BIG BLUE RIVER BASIN

## BIG BLUE RIVER at Beatrice, 06881500 - 2004

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 9,340 cubic feet per second May 24, gage height 16.02 feet; minimum daily discharge 88 cubic feet per second estimated January 5.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	140	160	146	106E	991	360	201	1,650	307	160	155
2	128	185	171	140	108E	1,750	316	207	1,490	312	142	147
3	121	239	163	145E	112E	1,700	297	205	997	906	123	134
4	119	291	161	96E	114E	1,250	274	210	682	480	134	123
5	114	279	160	88E	120E	4,220	259	207	524	433	136	123
6	111	282	159	90E	150E	6,120	240	177	430	467	133	122
7	109	298	155	100E	170E	4,430	238	177	373	835	121	120
8	107	275	155E	100E	200E	2,180	251	173	342	1,080	137	123
9	113	223	140E	102E	205E	1,080	237	207	318	1,250	310	117
10	118	201	102E	110E	205E	597	232	214	306	1,090	225	106
11	137	176	102E	120E	205E	488	228	206	292	783	182	102
12	127	172	104E	128E	205E	467	221	198	377	979	171	97
13	145	171	110E	135E	205E	437	210	761	3,400	1,070	163	90
14	146	156	120E	140E	210E	420	212	602	4,500	956	169	89
15	133	153	120E	140E	240E	400	200	386	3,880	803	143	106
16	139	151	125E	140E	250E	394	200	300	3,550	629	137	105
17	138	149	130E	140E	260E	374	198	275	3,060	501	138	105
18	135	170	140E	135E	270E	351	196	1,610	2,450	394	139	96
19	133	169	145E	140E	280E	330	198	2,820	1,360	313	136	96
20	126	141	150E	140E	320E	305	191	2,260	937	257	121	92
21	126	148	160E	145E	380E	304	195	1,400	734	208	122	143
22	119	140E	170	145E	420E	286	197	796	625	199	113	124
23	117	130E	167	145E	490E	264	197	5,050	1,350	185	121	127
24	115	130E	165E	150E	580E	250	226	9,060	1,030	171	141	125
25	116	135E	160E	130E	721	247	221	6,840	681	173	236	123
26	116	140E	160E	120E	767	241	220	3,670	535	158	215	114
27	110	164	155E	110E	755	292	209	2,020	462	162	177	111
28	114	165	155E	108E	744	929	201	1,340	389	197	156	113
29	118	150	155E	106E	852	913	203	1,230	342	194	231	114
30	120	151	155E	108E	-----	546	208	4,300	317	191	214	104
31	128	-----	157	106E	-----	422	-----	1,120	-----	187	178	-----
TOTAL	3,835	5,474	4,531	3,848	9,644	32,978	6,835	48,222	37,383	15,870	5,024	3,446
MEAN	124	182	146	124	333	1,064	228	1,556	1,246	512	162	115
MAX	146	298	171	150	852	6,120	360	9,060	4,500	1,250	310	155
MIN	107	130	102	88	106	241	191	173	292	158	113	89
AC-FT	7,610	10,860	8,990	7,630	19,130	65,410	13,560	95,650	74,150	31,480	9,970	6,840
CAL YEAR 2003	TOTAL	118,282	MEAN	324	MAX	4,750	MIN	84	AC-FT	234,600		
WTR YEAR 2004	TOTAL	177,090	MEAN	484	MAX	9,060	MIN	88	AC-FT	351,300		

E indicates estimated discharge.



**BIG SANDY CREEK at Alexandria, 06883940 - 2004**

LOCATION.--SE1/4SE1/4 Sec. 11-3-1 W., Thayer County, Lat. 40° 14' 06", Long. 97° 23' 20", on right bank downstream from State Highway 53 bridge, 0.8 mile south of Alexandria.

DRAINAGE AREA.--607 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,390.55 feet above mean sea level.

PERIOD OF RECORD.--1979 - present

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 21,900 cubic feet per second June 13, 1984, gage height 16.71 ft; minimum daily discharge 2.4 cubic feet per second September 11-12, 1996.

EXTREMES FOR CURRENT YEAR.--Peak discharge 5,040 cubic feet per second June 15, gage height 12.31 feet; minimum daily discharge 13 cubic feet per second estimated September 11 & 12.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 2003 TO SEP 2004

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	19	17	18	15E	309	33	20	97	48	52	17
2	20	21	17	18	15E	216	30	20	69	63	45	18
3	19	18	17	18	15E	111	30	20	56	70	38	20
4	19	75	17	18E	15E	73	28	19	48	68	45	19
5	18	41	18	18E	15E	1,710	27	19	40	85	38	22
6	18	25	18	18E	15E	916	26	18	36	99	41	21
7	18	17	18	18E	15E	398	27	18	31	123	44	18
8	17	16	18	18	15E	171	32	17	27	141	47	17
9	16	15	20	18	15	111	27	18	27	144	38	15
10	16	15	19	18	15	86	25	27	26	122	35	14
11	18	14	19	17	15	71	24	55	25	110	34	13
12	16	15	19	17	16	58	25	35	26	104	35	13
13	16	15	18	17	16	50	24	28	197	89	38	14
14	16	14	18	17	16	41	23	23	139	69	37	14
15	17	14	18	17	16	35	22	19	3,210	56	35	15
16	17	15	18	16	16	32	22	18	1,930	50	31	15
17	18	15	18	16	15	30	21	19	1,220	47	25	15
18	17	15	18	16	15	28	21	333	669	44	29	14
19	17	15	19	16	16	26	21	534	305	41	30	15
20	16	16	19	16	18	24	21	261	160	40	32	15
21	17	19	19	16	30	24	21	155	117	36	38	17
22	16	18	18	16	144	25	21	157	93	51	32	16
23	17	19	19	17	193	24	21	2,160	80	52	25	19
24	17	19	19	17	103	23	24	287	75	48	202	17
25	18	18	19	17E	77	24	22	177	68	46	309	17
26	18	18	18	17E	47	23	21	118	62	43	82	18
27	19	18	18	16E	46	203	21	89	61	37	47	18
28	18	18	19	16E	39	133	20	76	55	39	35	18
29	18	18	18	16E	50	59	21	158	53	43	26	18
30	18	17	19	16E	-----	45	21	841	50	49	21	18
31	18	-----	18	16E	-----	37	-----	232	-----	49	18	-----
TOTAL	545	592	567	525	1,038	5,116	722	5,971	9,052	2,106	1,584	500
MEAN	17.6	19.7	18.3	16.9	35.8	165	24.1	193	302	67.9	51.1	16.7
MAX	22	75	20	18	193	1,710	33	2,160	3,210	144	309	22
MIN	16	14	17	16	15	23	20	17	25	36	18	13
AC-FT	1,080	1,170	1,120	1,040	2,060	10,150	1,430	11,840	17,950	4,180	3,140	992
CAL YEAR 2003 TOTAL		37,595	MEAN	103	MAX	6,830	MIN	11	AC-FT	74,570		
WTR YEAR 2004 TOTAL		28,318	MEAN	77.4	MAX	3,210	MIN	13	AC-FT	56,170		

E indicates estimated discharge.