

**1997**

**HYDROGRAPHIC REPORT**

**STATE OF NEBRASKA**

**DEPARTMENT OF WATER RESOURCES**

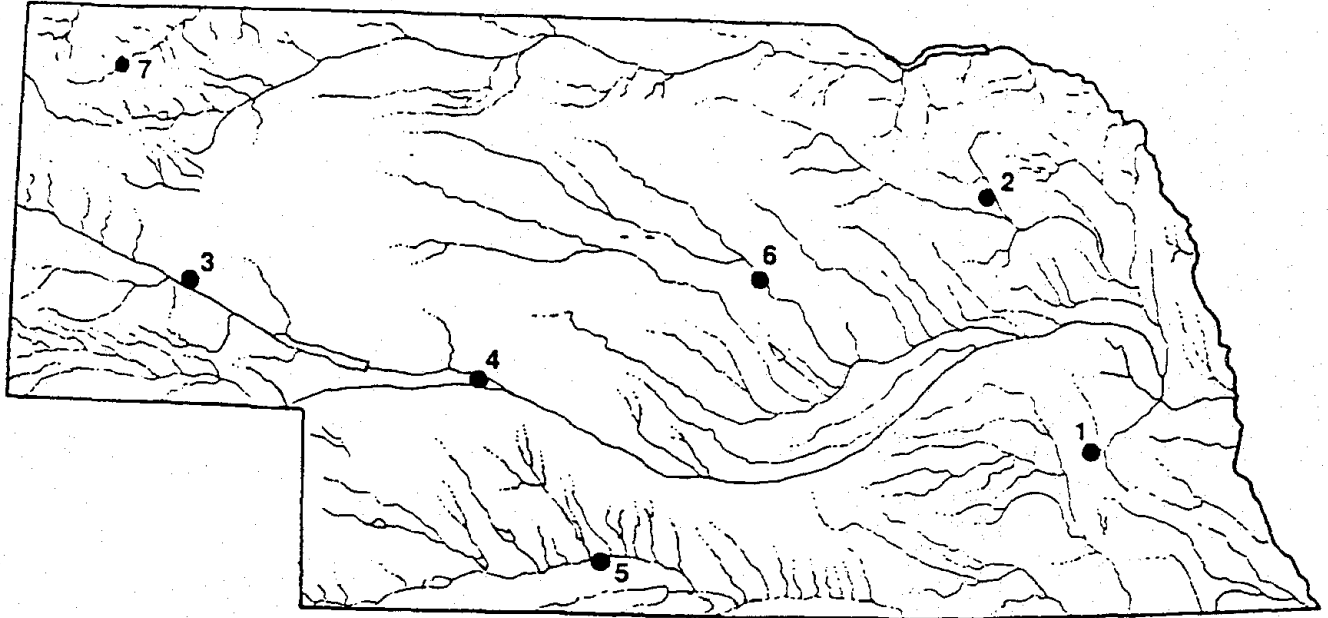
**STATE OF NEBRASKA**

**DEPARTMENT OF WATER RESOURCES**

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

**1997**

**Prepared Under the Direction of Michael Jess, Director  
Department of Water Resources**



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# HYDROGRAPHIC REPORT

1997

## INTRODUCTION and EXPLANATION OF DATA

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

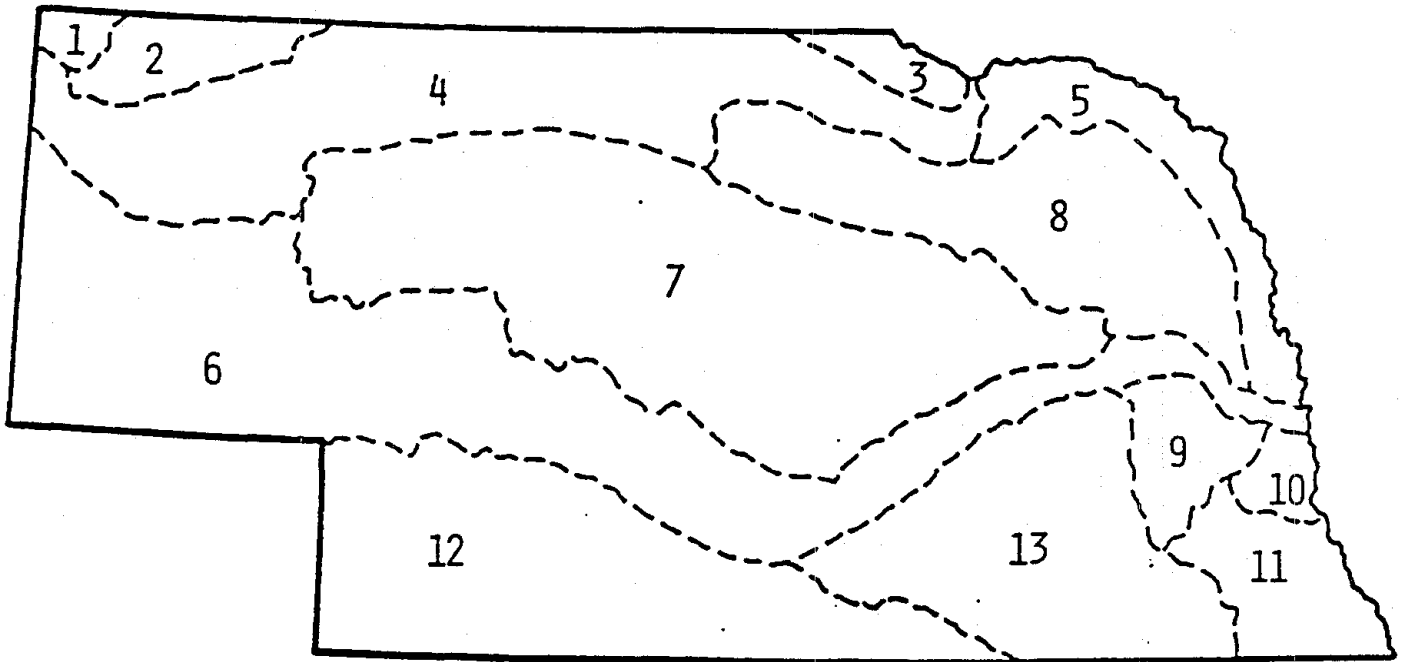
The Hydrographic Report for calendar year 1997 provides a record of stream flow, reservoir storage, and diversions for irrigation and power in Nebraska according to statutory authority granted under Statutes 46-212, 46-227, and 46-234. Stations are listed in order from upstream to downstream (downstream 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

Copies of the Hydrographic Report can be obtained by contacting the Nebraska Department of Water Resources, PO Box 94676, Lincoln, Nebraska 68509-4676 or by E-mail [lindeman@nrcdec.nrc.state.ne.us](mailto:lindeman@nrcdec.nrc.state.ne.us). Questions or comments can be directed to Guy H. Lindeman at this address or call (402) 471-2363. 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 or its cooperators, including the Department of Water Resources. Copies can be obtained by contacting the District Chief, U. S. Geological Survey, Room 406, Federal Building and U. S. Courthouse, Lincoln, Nebraska 68508.

Records from this and previous years publications are also provided to the Nebraska Natural Resources Commission's computerized Data Bank. This information can be obtained by contacting the Data Bank Administrator, Nebraska Natural Resources Commission, PO Box 94876, Lincoln, Nebraska 68509-4876. For E-mail requests, use [bansal@nrcdec.nrc.state.ne.us](mailto:bansal@nrcdec.nrc.state.ne.us). A stream gage station list is available on the Internet at the Natural Resources Commission home page address [www.nrc.state.ne.us](http://www.nrc.state.ne.us).



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

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

**1997**

**HYDROGRAPHIC REPORT**

# WHITE RIVER BASIN

## WHITE RIVER at Crawford, 06444000 - 1997

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.  
 E indicates estimated daily discharge. Estimated records January 1, 5-7, 10-14, 26-27, February 9-10, October 24-26, November 14-18, December 5-7, 11-12, 20-22, 24. Records 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 431 cubic feet per second June 3, gage height 5.90 feet; minimum daily discharge 11 cubic feet per second September 17.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	22E	23	20	19	25	26	18	21	13	15	20	22
2	24	25	20	20	32	37	17	19	13	14	19	22
3	25	25	20	21	27	104	19	20	14	15	18	22
4	24	22	19	21	25	33	20	18	14	15	19	21
5	18E	21	19	31	24	28	18	17	16	15	19	18E
6	22E	20	19	20	23	27	18	18	25	15	20	20E
7	22E	20	19	21	23	26	17	17	15	15	20	22E
8	22	20	20	21	22	25	17	16	13	16	20	21
9	22	20E	20	21	22	24	17	16	12	16	21	21
10	16E	20E	20	22	21	25	15	19	13	16	21	21
11	12E	21	20	21	21	25	15	23	13	17	21	18E
12	12E	21	20	21	21	23	17	21	12	18	20	18E
13	15E	21	19	22	21	23	17	18	12	18	21	23
14	16E	21	17	25	21	24	15	16	12	17	16E	23
15	20	22	19	25	21	23	15	16	12	17	15E	22
16	20	23	19	24	20	23	15	15	12	17	17E	23
17	22	27	19	23	21	22	14	15	11	17	20E	23
18	34	26	19	23	21	21	14	17	12	17	20E	22
19	50	24	19	22	22	20	14	15	13	17	23	22
20	53	23	19	24	21	20	16	15	15	18	22	19E
21	26	22	19	26	21	22	17	15	15	18	22	20E
22	24	22	19	23	33	21	17	15	16	18	22	21E
23	23	21	19	22	76	18	16	14	21	18	22	20
24	24	20	20	22	32	41	17	14	18	15E	23	23E
25	21	21	21	22	59	28	16	14	16	14E	23	23
26	20E	21	19	22	39	24	15	14	15	16E	22	22
27	20E	21	19	23	32	21	15	14	15	21	22	23
28	22	20	20	23	29	20	16	13	15	22	22	22
29	25	-----	19	26	28	19	26	14	15	22	22	25
30	23	-----	19	27	27	18	26	15	15	22	21	25
31	24	-----	20	-----	26	-----	26	14	-----	22	-----	24
TOTAL	723	613	600	683	856	811	535	508	433	533	613	671
MEAN	23.3	21.9	19.4	22.8	27.6	27.0	17.3	16.4	14.4	17.2	20.4	21.6
MAX	53	27	21	31	76	104	26	23	25	22	23	25
MIN	12	20	17	19	20	18	14	13	11	14	15	18
AC-FT	1,430	1,220	1,190	1,350	1,700	1,610	1,060	1,010	859	1,060	1,220	1,330
YEAR 1997	TOTAL	7,579	MEAN	20.8	MAX	104	MIN	11	AC-FT	15,030		



# WHITE RIVER BASIN

**WHITNEY RESERVOIR from White River, 00410000 - 1997**

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 CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												
2												8,270
3												
4												
5												
6												
7					10,500							
8									7,560			
9												
10						10,000						
11												
12												
13												
14												
15												
16												
17												
18			10,500									
19												
20												
21	8,240											
22												
23												
24												
25								7,150	5,880			
26												
27												
28												
29		-----										
30		-----										
31		-----		-----		-----			-----			8,280
MAX	8,240		10,500		10,500		10,000	7,560	5,880			8,280
MIN	8,240		10,500		10,500		10,000	7,150	5,880			8,270
YEAR 1997			MAX	10,500	MIN	5,880						

# NIOBRARA RIVER BASIN

## NIOBRARA RIVER at Wyoming-Nebraska State Line, 06454000 - 1997

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.  
E indicates estimated daily discharge. Estimated records January 2, 17-19, 25, February 25-28, March 24-26, September 25-October 3, October 9-16, December 16-18. Records good, except estimated records are poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 18.6 cubic feet per second February 18, gage height 2.67 feet; maximum gage height 3.86 feet April 7 due to backwater from snow in channel; minimum daily discharge 1.8 cubic feet per second July 23.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4.5	4.0	3.6	4.9	7.0	5.6	2.5	2.4	2.2	2.9	3.0E	3.4
2	4.5	5.3	3.7	4.7	7.4	6.3	2.3	2.3	2.3	2.8	3.2E	3.6
3	4.6	4.4	3.8	4.7	6.4	7.2	2.5	2.6	2.3E	2.8	3.3E	3.7
4	4.4E	3.8	3.6	4.9	6.4	6.0	2.6	2.4	2.2E	2.8E	3.3E	3.8
5	3.0E	4.0	3.6	4.9E	6.2	5.4	2.4	2.3	2.2E	2.8E	3.3E	3.6
6	3.6	3.9	3.6	4.6E	5.9	5.1	2.4	2.3	2.2E	2.7E	3.3	3.4
7	3.1	3.6	3.7	4.4E	5.8	4.9	2.4	2.7	2.2E	2.7E	3.3	3.5
8	3.2	3.5	3.9	4.0E	5.4	4.8	2.3	3.1	2.1E	2.7E	3.3	3.5
9	2.9E	3.6	4.1	4.0E	5.0	4.8	2.2	2.9	2.1E	2.7E	3.4	3.6
10	2.4E	3.7	4.6	4.0E	4.9	4.3	2.1	3.0	2.1E	2.7E	3.2	3.7
11	2.1E	3.7	4.9	5.1E	4.9	3.9	2.1	3.5	2.0E	2.7E	3.2	3.3
12	2.3	3.7	5.1	6.6E	4.5	3.7	2.3	3.7	2.0E	2.6E	3.2	3.4
13	2.2	3.7	4.8	5.4E	4.2	3.5	2.2	3.3	2.0E	2.6E	3.0	3.4
14	2.3	3.7	4.5	5.3	4.0	3.5	2.1	3.1	2.0E	2.6E	3.2	3.4
15	2.2E	4.0	4.4	5.4	4.1	3.6	2.1	3.0	1.9E	2.6E	3.0	3.5
16	2.1E	4.3	4.8	5.3	4.0	3.4	2.0	3.0	1.9	2.7E	3.0	3.5
17	2.3	4.4	5.0	8.7	4.0	3.2	1.9	3.0	1.9	2.7E	3.0	3.6
18	2.9	9.7	5.2	9.9	3.9	3.1	1.9	3.0	1.9	2.7E	3.3	3.6
19	3.1	4.5	5.5	12	3.8	3.1	1.9	3.0	2.1	2.8E	3.8	3.6
20	3.3	4.6	5.8	13	3.8	3.1	1.9	3.0	2.2	2.8E	3.9	3.4
21	3.3	4.3	5.8	12	3.8	3.2	1.9	2.9	2.3	2.8E	3.7	3.5
22	3.1	4.1	5.5	9.6	4.4	3.2	1.9	2.8	2.7	2.8E	3.5	3.4
23	3.1	3.8	5.3	8.9	6.0	3.1	1.8	2.6	3.8	2.7E	3.3	3.2
24	3.2	3.8	5.3	8.6	4.9	3.0	2.1	2.6	3.1	2.5E	3.3	3.3
25	2.4E	3.9	5.1	8.2	7.9	2.9	2.1	2.7	2.8	2.4E	3.4	3.2
26	2.8E	3.9	5.1	8.1	6.4	3.0	2.1	2.6	2.8	2.8E	3.3	3.2
27	2.8E	3.8	5.1	7.7	5.7	2.9	2.1	2.5	2.7	3.1E	3.5	3.1
28	2.9	3.8	5.1	7.3	5.9	3.0	2.1	2.3	2.8	3.1E	3.5	4.3
29	3.2	-----	4.8	7.2	5.5	3.0	3.5	2.2	2.8	3.1E	3.4	3.6
30	3.5	-----	4.8	7.2	5.3	2.7	3.0	2.5	2.8	3.2E	3.4	3.6
31	3.6	-----	4.8	-----	5.4	-----	2.8	2.3	-----	3.2E	-----	3.5
TOTAL	94.9	117.5	144.9	206.6	162.8	118.5	69.5	85.6	70.4	86.1	99.5	108.4
MEAN	3.06	4.20	4.67	6.89	5.25	3.95	2.24	2.76	2.35	2.78	3.32	3.50
MAX	4.6	9.7	5.8	13	7.9	7.2	3.5	3.7	3.8	3.2	3.9	4.3
MIN	2.1	3.5	3.6	4.0	3.8	2.7	1.8	2.2	1.9	2.4	3.0	3.1
AC-FT	188	233	287	410	323	235	138	170	140	171	197	215
YEAR 1997	TOTAL	1,364.7	MEAN	3.74	MAX	13	MIN	1.8	AC-FT	2,710		

# NIOBRARA RIVER BASIN

JOHNSON CANAL from Niobrara River, 00072000 - 1997

LOCATION.--NE1/4NE1/4 Sec. 1-31-57 W. near Harrison

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

PERIOD OF RECORD.--1956 - present

REMARKS.--E indicates estimated daily discharge. Estimated records March 27-May 5, June 4-9.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1			0	1.4E	2.3 E	1.4	1.3					
2			0	1.5E	2.3 E	1.5	1.2					
3			0	1.5E	2.4 E	2.0	1.2					
4			0	1.5E	2.4 E	1.9 E	1.3					
5			0	1.5E	2.4 E	1.7 E	1.3					
6			0	1.6E	2.5	1.6 E	1.2					
7			0	1.6E	5.6	1.5 E	1.1					
8			0	1.6E	5.5	1.4 E	.77					
9			0	1.7E	5.4	1.3 E	0					
10			0	1.7E	3.3	1.1	0					
11			0	1.7E	1.3	1.3	0					
12			0	1.8E	1.3	1.1	0					
13			0	1.8E	1.3	.91	0					
14			0	1.8E	1.3	1.0	0					
15			0	1.8E	1.3	1.7	0					
16			0	1.9E	1.3	1.6	0					
17			0	1.9E	1.3	1.2	0					
18			0	1.9E	1.1	1.1	0					
19			0	2.0E	1.1	1.1	0					
20			0	2.0E	1.1	1.2	0					
21			0	2.0E	.96	1.5	0					
22			0	2.0E	1.0	1.6	0					
23			0	2.1E	1.7	1.7	0					
24			0	2.1E	1.7	1.9	0					
25			0	2.1E	2.2	1.9	0					
26			1.2	2.2E	2.0	1.9	0					
27			1.3E	2.2E	1.8	1.9	0					
28			1.3E	2.2E	1.4	1.8	0					
29		-----	1.3E	2.3E	1.3	1.7	0					
30		-----	1.4E	2.3E	1.2	1.4	0					
31		-----	1.4E	-----	1.3	-----	0		-----	-----		
TOTAL			7.9	55.7	63.06	44.91	9.37					
MEAN			.25	1.86	2.03	1.50	.30					
MAX			1.4	2.3	5.6	2.0	1.3					
MIN			0	1.4	.96	.91	0					
AC-FT			16	110	125	89	19					
YEAR 1997	MAX	5.6	MIN	0	AC-FT	359						

# NIOBRARA RIVER BASIN

LAKOTAH CANAL from Niobrara River, 00079000 - 1997

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

REMARKS.--E indicates estimated daily discharge. Estimated records June 5-9, 27.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	2.4	0	2.8	1.8	2.9		
2					0	2.8	0	2.6	1.8	2.9		
3					0	3.4	0	2.3	1.7	3.0		
4					0	3.3	0	1.9	1.7	3.4		
5					0	3.2 E	0	1.5	2.0	3.0		
6					4.7	3.1 E	0	1.5	3.3	2.7		
7					2.2	3.0 E	0	1.5	4.1	3.1		
8					.61	2.8 E	0	1.4	3.0	3.8		
9					.41	2.7 E	.33	1.6	2.7	3.8		
10					.85	2.6	.54	1.8	2.6	3.8		
11					3.8	2.8	.56	2.4	2.2	3.8		
12					3.8	2.7	.66	3.2	2.1	2.9		
13					3.6	2.7	.65	3.8	1.8	2.7		
14					3.5	2.6	.69	3.0	1.6	1.6		
15					3.5	2.0	.72	2.8	1.6	0		
16					3.3	1.6	.68	2.4	1.9	0		
17					3.2	1.6	.59	2.1	1.7	0		
18					3.2	1.4	.57	2.0	1.6	0		
19					3.3	1.3	.61	2.3	1.8	0		
20					3.2	1.0	.84	2.3	2.1	0		
21					3.0	.69	.90	2.3	2.2	0		
22					3.1	.29	.91	2.2	2.4	0		
23					4.3	.23	.89	2.1	3.2	0		
24					4.2	.30	1.1	1.9	3.0	0		
25					6.2	.32	1.1	1.9	3.0	0		
26					4.3	.30	.87	1.9	3.2	0		
27					4.4	.12E	.88	1.7	3.1	0		
28					3.7	0	.92	1.6	3.0	0		
29		-----			3.2	0	1.5	1.7	2.8	0		
30		-----			3.0	0	2.3	1.9	2.6	0		
31		-----		-----	2.7	-----	2.6	1.9	-----	0	-----	
TOTAL					85.27	51.25	21.41	66.3	71.6	43.4		
MEAN					2.75	1.71	.69	2.14	2.39	1.40		
MAX					6.2	3.4	2.6	3.8	4.1	3.8		
MIN					0	0	0	1.4	1.6	0		
AC-FT					169	102	42	132	142	86		
YEAR 1997	MAX	6.2	MIN	0	AC-FT	673						

# NIOBRARA RIVER BASIN

EARNEST CANAL (SOUTH) from Niobrara River, 00038100 - 1997

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

REMARKS.--E indicates estimated daily discharge. Estimated records June 5-9.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	0	0	1.8	3.0		
2					0	0	0	0	1.9	3.0		
3					0	2.4	0	0	2.0	3.0		
4					0	4.6	0	0	1.4	3.0		
5					0	4.5E	0	0	0	3.0		
6					0	4.3E	0	0	0	1.7		
7					0	4.2E	0	0	0	0		
8					0	4.0E	0	0	0	0		
9					0	3.9E	0	0	0	0		
10					0	3.7	0	0	.54	0		
11					0	3.1	0	0	1.1	0		
12					0	3.1	0	0	2.5	0		
13					0	3.2	0	0	2.4	0		
14					0	3.3	0	0	2.4	0		
15					0	3.3	0	0	2.4	0		
16					0	2.8	0	0	2.3	0		
17					0	3.2	0	0	2.3	0		
18					0	3.9	0	0	2.3	0		
19					0	4.1	0	0	2.5	0		
20					0	4.2	0	0	2.7	0		
21					0	4.2	0	0	2.7	0		
22					0	3.3	0	0	2.8	0		
23					0	3.0	0	0	3.1	0		
24					0	3.1	0	0	3.2	0		
25					0	3.1	0	0	3.2	0		
26					0	1.0	0	0	3.1	0		
27					0	0	0	0	3.0	0		
28					0	0	0	0	3.0	0		
29		-----			0	0	0	0	3.0	0		
30		-----			0	0	0	0	3.0	0		
31		-----		-----	0	-----	0	.93	-----	0	-----	
TOTAL					0	83.5	0	0.93	60.74	16.7		
MEAN					0	2.78	0	.030	2.02	.56		
MAX					0	4.6	0	.93	3.2	3.0		
MIN					0	0	0	0	0	0		
AC-FT					0	166	0	1.8	120	33		
YEAR 1997	MAX	4.6	MIN	0	AC-FT	321						

# NIOBRARA RIVER BASIN

**EARNEST CANAL (NORTH) from Niobrara River, 00038200 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	3.5	0	0	0	0		
2					0	3.5	0	0	0	0		
3					0	1.4	0	0	0	0		
4					0	0	0	0	0	0		
5					0	0	0	0	0	0		
6					1.6	0	0	0	0	0		
7					2.5	0	0	0	0	0		
8					2.7	0	0	0	0	0		
9					2.7	0	0	0	0	0		
10					2.8	0	0	0	0	0		
11					2.7	0	0	0	0	0		
12					2.8	0	0	0	0	0		
13					2.8	0	0	0	0	0		
14					2.7	0	0	0	0	0		
15					2.7	0	0	0	0	0		
16					2.7	0	0	0	0	0		
17					2.7	0	0	0	0	0		
18					2.7	0	0	0	0	0		
19					2.7	0	0	0	0	0		
20					2.8	0	0	0	0	0		
21					2.9	0	0	0	0	0		
22					3.0	0	0	0	0	0		
23					3.2	0	0	.35	0	0		
24					3.4	0	0	1.3	0	0		
25					3.6	0	0	1.5	0	0		
26					3.8	0	0	1.5	0	0		
27					3.8	0	0	1.5	0	0		
28					3.7	0	0	1.5	0	0		
29		-----			3.6	0	0	1.5	0	0		
30		-----			3.6	0	0	1.8	0	0		
31		-----		-----	3.6	-----	0	.50	-----	0	-----	
TOTAL					77.8	8.4	0	11.45	0	0		
MEAN					2.51	.28	0	.37	0	0		
MAX					3.8	3.5	0	1.8	0	0		
MIN					0	0	0	0	0	0		
AC-FT					154	17	0	23	0	0		
YEAR 1997	MAX	3.8	MIN	0	AC-FT	194						

# NIOBRARA RIVER BASIN

McGINLEY-STOVER CANAL from Niobrara River, 00084000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
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	0			
6					7.5	0	0	0	0			
7					7.8	0	0	0	0			
8					7.8	0	0	0	0			
9					7.6	0	0	0	0			
10					7.7	0	0	0	0			
11					7.3	0	0	0	0			
12					7.4	0	0	0	0			
13					7.0	0	0	0	0			
14					6.9	0	0	0	0			
15					6.7	0	0	0	0			
16					6.8	0	0	0	0			
17					6.2	0	0	0	0			
18					6.6	0	0	0	0			
19					6.6	0	0	0	0			
20					6.3	0	0	0	0			
21					6.4	0	0	0	0			
22					7.4	0	0	0	0			
23					12	0	0	0	0			
24					10	0	0	0	0			
25					21	0	0	0	0			
26					9.4	0	0	0	0			
27					0	0	0	0	0			
28					0	0	0	0	0			
29		-----			0	0	0	0	0			
30		-----			0	0	0	0	0			
31		-----		-----	0	-----	0	0	-----		-----	
TOTAL					172.4	0	0	0	0			
MEAN					5.56	0	0	0	0			
MAX					21	0	0	0	0			
MIN					0	0	0	0	0			
AC-FT					342	0	0	0	0			
YEAR 1997	MAX	21	MIN	0	AC-FT	342						

# NIOBRARA RIVER BASIN

COOK CANAL NO. 1 from Niobrara River, 00029000 - 1997

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

GAGE.--Continuous stage recorder and concrete flume

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

REMARKS.--E indicates estimated daily discharge. Estimated records June 16, September 10-15, October 6.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	.07	0	0	1.4		
2					0	0	.05	0	0	1.4		
3					0	0	.06	0	0	1.3		
4					0	0	.07	0	0	1.3		
5					0	0	.06	0	0	1.3		
6					0	0	.05	0	0	1.3 E		
7					0	0	.03	0	0	1.3		
8					0	0	0	0	0	1.3		
9					0	0	0	0	0	1.3		
10					0	0	0	0	.60E	1.3		
11					0	0	0	0	1.0 E	1.3		
12					0	0	0	0	1.0 E	1.4		
13					0	0	0	0	1.0 E	1.4		
14					0	0	0	0	1.0 E	.53		
15					0	0	0	0	1.0 E	0		
16					0	.03E	0	0	1.2	0		
17					0	.06	0	0	1.2	0		
18					0	.03	0	0	1.2	0		
19					0	0	0	0	1.3	0		
20					0	0	0	0	1.4	0		
21					0	0	0	0	1.5	0		
22					0	0	0	0	1.6	0		
23					0	.04	0	0	1.9	0		
24					0	.09	0	0	1.9	0		
25					0	.09	0	0	1.6	0		
26					0	.06	0	0	1.5	0		
27					0	.07	0	0	1.5	0		
28					0	.15	0	0	1.4	0		
29		-----			0	.13	0	0	1.4	0		
30		-----			0	.10	0	0	1.4	0		
31		-----		-----	0	-----	0	0	-----	0	-----	
TOTAL					0	0.85	0.39	0	27.60	17.83		
MEAN					0	.028	.013	0	.92	.58		
MAX					0	.15	.07	0	1.9	1.4		
MIN					0	0	0	0	0	0		
AC-FT					0	1.7	.8	0	55	35		
YEAR 1997	MAX	1.9	MIN	0	AC-FT	93						



# NIOBRARA RIVER BASIN

HARRIS-NEECE CANAL from Niobrara River, 00062000 - 1997

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

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

PERIOD OF RECORD.--1956 - present

REMARKS.--E indicates estimated daily discharge. Estimated records June 6-9.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	14	8.6	11	0			
2					0	14	8.6	10	0			
3					0	14	8.8	11	0			
4					0	14	9.1	10	0			
5					0	14	9.2	9.5	0			
6					0	14 E	9.1	11	0			
7					4.8	14 E	9.2	12	0			
8					8.5	0 E	8.9	11	0			
9					7.9	0 E	8.7	11	0			
10					7.7	0	8.1	11	0			
11					8.7	0	8.1	12	0			
12					11	0	8.5	11	0			
13					11	0	8.0	11	0			
14					11	0	7.8	11	0			
15					10	0	7.9	10	0			
16					10	0	7.9	10	0			
17					10	0	8.0	10	0			
18					10	4.6	8.4	10	0			
19					10	7.0	8.4	9.2	0			
20					10	7.1	8.6	8.2	0			
21					10	7.1	9.7	8.0	0			
22					10	6.7	9.6	8.0	0			
23					12	6.1	9.2	7.9	0			
24					12	7.9	9.1	7.8	0			
25					13	8.4	9.2	7.8	0			
26					13	7.3	9.2	7.8	0			
27					14	7.3	9.3	7.8	0			
28					14	7.4	9.7	7.8	0			
29		-----			14	7.7	10	7.8	0			
30		-----			14	7.9	10	7.8	0			
31		-----		-----	14	-----	11	4.7	-----		-----	
TOTAL					270.6	190.5	275.9	293.1	0			
MEAN					8.73	6.35	8.90	9.45	0			
MAX					14	14	11	12	0			
MIN					0	0	7.8	4.7	0			
AC-FT					537	378	547	581	0			
YEAR 1997	MAX	14	MIN	0	AC-FT	2,040						

# NIOBRARA RIVER BASIN

LABELLE CANAL from Niobrara River, 00078000 - 1997

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 FOR 1997

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

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No water diverted in 1997

# NIOBRARA RIVER BASIN

**METTLEN CANAL from Niobrara River, 00089000 - 1997**

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

REMARKS.--E indicates estimated daily discharge. Estimated records June 4-9.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	3.8	5.1	0			
2					0	2.8	2.6	5.2	0			
3					0	5.2	2.2	5.2	0			
4					0	5.1E	2.7	5.4	0			
5					0	5.1E	2.5	4.9	0			
6					0	5.0E	2.6	4.7	0			
7					0	5.0E	3.5	3.9	0			
8					0	4.9E	2.9	2.8	0			
9					0	4.9E	2.1	2.3	0			
10					0	4.8	1.7	2.6	0			
11					0	4.3	1.3	3.5	0			
12					0	3.8	.70	3.9	0			
13					0	3.9	.30	3.9	0			
14					0	3.9	.27	3.8	0			
15					0	3.8	.10	3.7	0			
16					0	3.7	0	1.9	0			
17					0	3.6	0	0	0			
18					0	3.3	0	0	0			
19					0	2.4	0	0	0			
20					0	2.0	0	0	0			
21					0	1.9	0	0	0			
22					0	1.9	0	0	0			
23					0	1.7	0	0	0			
24					0	2.0	0	0	0			
25					0	2.0	0	0	0			
26					0	1.6	0	0	0			
27					0	1.7	0	0	0			
28					0	2.4	0	0	0			
29		-----			0	3.5	0	0	0			
30		-----			0	3.7	0	0	0			
31		-----		-----	0	-----	3.1	0	-----		-----	
TOTAL					0	99.9	32.37	62.8	0			
MEAN					0	3.33	1.04	2.03	0			
MAX					0	5.2	3.8	5.4	0			
MIN					0	0	0	0	0			
AC-FT					0	198	64	125	0			
YEAR 1997	MAX	5.4	MIN	0	AC-FT	387						

# NIOBRARA RIVER BASIN

**BENNETT-KAY CANAL from Niobrara River, 00013000 - 1997**

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1958 - present

REMARKS.--E indicates estimated daily discharge. Estimated records June 5-9.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	.28	0	0			
2					0	2.6	0	0	0			
3					0	4.9	0	0	0			
4					0	5.0	0	0	0			
5					0	5.0E	0	0	0			
6					0	5.0E	0	0	0			
7					0	4.0E	0	0	0			
8					0	0 E	0	0	0			
9					0	0 E	0	0	0			
10					0	0	0	0	0			
11					0	0	0	0	0			
12					0	0	0	0	0			
13					0	0	0	0	0			
14					0	0	0	0	0			
15					0	0	0	0	0			
16					0	0	0	0	0			
17					.98	0	0	0	0			
18					4.7	0	0	0	0			
19					4.7	0	0	0	0			
20					3.7	0	0	0	0			
21					3.5	0	0	0	0			
22					3.8	0	0	0	0			
23					4.8	3.2	0	0	0			
24					5.6	4.6	0	0	0			
25					5.7	4.5	0	0	0			
26					5.9	4.5	0	0	0			
27					5.0	4.2	0	0	0			
28					4.1	3.5	0	0	0			
29		-----			4.3	1.9	0	0	0			
30		-----			3.7	1.2	0	0	0			
31		-----		-----	0	-----	0	0	-----		-----	
TOTAL					60.48	54.1	0.28	0	0			
MEAN					1.95	1.80	.009	0	0			
MAX					5.9	5.0	.28	0	0			
MIN					0	0	0	0	0			
AC-FT					120	107	.6	0	0			
YEAR 1997	MAX	5.9	MIN	0	AC-FT	228						

# NIOBRARA RIVER BASIN

MOORE - KAY CANAL from Niobrara River, 00104000 - 1997

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

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

PERIOD OF RECORD.--1956 - present

REMARKS.--E indicates estimated daily discharge. Estimated records June 4-9.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	2.5	0	0	0			
2					0	1.4	0	0	0			
3					0	0	0	0	0			
4					0	0 E	0	0	0			
5					0	0 E	0	0	0			
6					0	0 E	0	0	0			
7					0	0 E	0	0	0			
8					0	0 E	0	0	0			
9					0	0 E	0	0	0			
10					0	0	0	0	0			
11					0	0	0	0	0			
12					0	0	0	0	0			
13					0	0	0	0	0			
14					0	0	0	1.2	0			
15					0	0	0	2.7	0			
16					0	0	0	2.6	0			
17					0	0	0	3.2	0			
18					0	0	0	3.5	0			
19					.43	0	0	3.4	0			
20					3.0	3.6	0	3.9	0			
21					4.5	4.7	0	3.8	0			
22					5.1	4.5	0	2.1	0			
23					3.6	4.3	0	0	0			
24					1.8	3.6	0	0	0			
25					5.6	0	.58	0	0			
26					5.2	0	1.3	0	0			
27					4.9	0	1.5	0	0			
28					4.2	0	2.0	0	0			
29		-----			3.1	0	1.4	0	0			
30		-----			2.9	0	0	0	0			
31		-----		-----	2.7	-----	0	0	-----		-----	
TOTAL					47.03	24.6	6.78	26.4	0			
MEAN					1.52	.82	.22	.85	0			
MAX					5.6	4.7	2.0	3.9	0			
MIN					0	0	0	0	0			
AC-FT					93	49	13	52	0			
YEAR 1997	MAX	5.6	MIN	0	AC-FT	208						

# NIOBRARA RIVER BASIN

GEO. HITSHEW CANAL from Niobrara river, 00063000 - 1997

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

REMARKS.--E indicates estimated daily discharge. Estimated records May 15-22.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	1.4	0	0	0			
2					0	1.2	0	0	0			
3					0	1.4	0	0	0			
4					0	.43	0	0	0			
5					0	.35	0	0	0			
6					0	.27	0	0	0			
7					0	.23	0	0	0			
8					0	.19	0	0	0			
9					0	.19	0	0	0			
10					0	.24	0	0	0			
11					0	.27	0	0	0			
12					0	.17	0	0	0			
13					0	.13	0	0	0			
14					0	.12	0	0	0			
15					0 E	.19	0	0	0			
16					0 E	.16	0	0	0			
17					0 E	.12	0	0	0			
18					0 E	.07	0	0	0			
19					0 E	.04	0	0	0			
20					1.0E	.01	0	0	0			
21					2.0E	0	0	0	0			
22					3.0E	0	0	0	0			
23					3.8	0	0	0	0			
24					2.7	0	0	0	0			
25					4.7	0	0	0	0			
26					4.6	0	0	0	0			
27					4.1	0	0	0	0			
28					3.4	0	0	0	0			
29		-----			3.2	0	0	0	0			
30		-----			2.3	0	0	0	0			
31		-----		-----	1.8	-----	0	0	-----		-----	
TOTAL					36.6	7.18	0	0	0			
MEAN					1.18	.24	0	0	0			
MAX					4.7	1.4	0	0	0			
MIN					0	0	0	0	0			
AC-FT					73	14	0	0	0			
YEAR 1997	MAX	4.7	MIN	0	AC-FT	87						

# NIOBRARA RIVER BASIN

McLAUGHLIN CANAL from Niobrara River, 00086000 - 1997

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

REMARKS.--E indicates estimated daily discharge. Estimated records June 16-18.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	3.5	3.2	0	3.4		
2					0	0	3.5	3.2	0	3.4		
3					0	0	3.5	2.9	0	3.3		
4					0	0	3.4	2.5	0	3.3		
5					0	0	3.4	2.4	0	3.2		
6					0	0	3.3	.75	0	3.2		
7					0	0	3.3	0	0	3.2		
8					0	0	3.3	0	0	3.1		
9					0	0	3.1	0	0	1.6		
10					0	0	3.2	0	0	.95		
11					0	0	3.3	0	1.6	.93		
12					0	0	3.5	0	2.5	.17		
13					0	0	3.8	0	2.6	0		
14					0	0	3.8	0	2.6	0		
15					0	0	3.9	0	2.6	0		
16					0	3.5E	3.5	0	2.6	0		
17					0	7.0E	2.9	0	2.5	0		
18					0	7.0E	2.6	0	2.5	0		
19					0	7.7	2.6	0	2.7	0		
20					0	7.2	2.5	0	3.0	0		
21					0	7.3	2.2	0	3.1	0		
22					0	6.6	2.2	0	3.4	0		
23					0	6.0	2.3	0	3.9	0		
24					0	7.2	2.4	0	3.9	0		
25					0	4.9	2.4	0	3.7	0		
26					0	3.7	2.4	0	3.6	0		
27					0	3.6	2.4	0	3.5	0		
28					0	3.5	2.0	0	3.4	0		
29		-----			0	3.5	2.1	0	3.4	0		
30		-----			0	3.5	2.9	0	3.4	0		
31		-----		-----	0	-----	3.1	0	-----	0	-----	
TOTAL					0	82.2	92.3	14.95	60.5	29.75		
MEAN					0	2.74	2.98	.48	2.02	.96		
MAX					0	7.7	3.9	3.2	3.9	3.4		
MIN					0	0	2.0	0	0	0		
AC-FT					0	163	183	30	120	59		
YEAR 1997	MAX	7.7	MIN	0	AC-FT	555						

# NIOBRARA RIVER BASIN

**EXCELSIOR CANAL from Niobrara River, 00046000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	1.7	0	0			
2					0	0	1.4	0	0			
3					0	0	1.9	0	0			
4					0	0	1.7	0	0			
5					0	0	1.7	0	0			
6					0	0	1.5	0	0			
7					0	0	1.6	0	0			
8					0	0	1.6	0	0			
9					0	0	1.3	0	0			
10					0	0	1.1	0	0			
11					0	0	1.1	0	0			
12					0	3.5	1.1	0	0			
13					0	3.2	1.1	0	0			
14					0	2.6	.99	0	0			
15					0	2.7	.96	0	0			
16					0	2.5	.92	0	0			
17					0	2.4	.96	0	0			
18					0	2.5	1.4	0	0			
19					0	2.6	1.9	0	0			
20					0	2.7	2.6	0	0			
21					0	2.6	3.2	0	0			
22					0	2.2	3.3	0	0			
23					0	2.3	3.3	0	0			
24					0	4.4	3.4	0	0			
25					0	6.3	3.4	0	0			
26					0	5.5	2.8	0	0			
27					0	4.6	1.9	0	0			
28					0	3.8	1.8	0	0			
29		-----			0	3.0	2.6	0	0			
30		-----			0	2.4	0	0	0			
31		-----		-----	0	-----	0	0	-----			
TOTAL					0	61.8	54.23	0	0			
MEAN					0	2.06	1.87	0	0			
MAX					0	6.3	3.4	0	0			
MIN					0	0	.92	0	0			
AC-FT					0	123	108	0	0			
YEAR 1997	MAX	6.3	MIN	0	AC-FT	230						



# NIOBRARA RIVER BASIN

HUGHES CANAL from Niobrara River, 00069000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	1.1	.08	0	0	0			
2				0	1.1	.05	0	0	0			
3				0	1.1	.03	0	0	0			
4				0	.99	0	0	0	0			
5				0	.81	0	0	0	0			
6				0	.67	0	0	0	0			
7				0	.55	0	0	0	0			
8				0	.28	0	0	0	0			
9				0	.15	0	0	0	0			
10				0	.11	0	0	0	0			
11				0	.06	0	0	0	0			
12				0	.02	0	0	0	0			
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	.15	0	0	0	0			
26				0	.46	0	0	0	0			
27				0	.51	0	0	0	0			
28				0	.53	0	0	0	0			
29		-----		0	.52	0	0	0	0			
30		-----		0	.36	0	0	0	0			
31		-----		-----	.20	-----	0	0	-----			
TOTAL				0	9.67	0.16	0	0	0			
MEAN				0	.31	.005	0	0	0			
MAX				0	1.1	.08	0	0	0			
MIN				0	0	0	0	0	0			
AC-FT				0	19	.3	0	0	0			
YEAR 1997	MAX	1.1	MIN	0	AC-FT	19						

# NIOBRARA RIVER BASIN

**PIONEER CANAL from Niobrara River, 00123000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	0	0	0			
2					0	1.4	0	0	0			
3					0	3.4	0	0	0			
4					0	3.4	0	0	0			
5					0	3.4	1.8	0	0			
6					0	3.3	2.4	0	0			
7					0	3.3	2.4	0	0			
8					0	3.3	2.4	0	0			
9					0	3.3	2.4	0	0			
10					0	3.4	2.2	0	0			
11					0	3.5	2.4	0	0			
12					0	3.5	2.6	0	0			
13					0	3.4	2.4	0	0			
14					2.5	3.3	2.4	0	0			
15					6.0	2.9	2.5	0	0			
16					5.9	.04	2.5	0	0			
17					5.8	0	1.2	0	0			
18					5.9	0	0	0	0			
19					5.8	0	0	0	0			
20					5.5	0	0	0	0			
21					5.2	0	0	0	0			
22					5.1	0	0	0	0			
23					5.1	0	0	0	0			
24					5.2	0	0	0	0			
25					6.0	0	0	0	0			
26					1.6	0	0	0	0			
27					0	0	0	0	0			
28					0	0	0	0	0			
29		-----			0	0	0	0	0			
30		-----			0	0	0	0	0			
31		-----		-----	0	-----	0	0	-----		-----	
TOTAL					65.6	44.84	29.6	0	0			
MEAN					2.12	1.49	.95	0	0			
MAX					6.0	3.5	2.6	0	0			
MIN					0	0	0	0	0			
AC-FT					130	89	59	0	0			
YEAR 1997	MAX	6.0	MIN	0	AC-FT	278						

# NIOBRARA RIVER BASIN

## NIOBRARA RIVER above Box Butte Reservoir, 06454500 - 1997

LOCATION.--NE1/4 Sec. 27-29-50 W., Dawes County, Lat. 42° 27' 35", Long. 103° 10' 15", 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.  
E indicates estimated daily discharge. Records good except estimated records 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 54 cubic feet per second April 17, gage height 3.68 feet; maximum gage height 5.25 feet on April 7 due to backwater from snow blown into the channel; minimum daily discharge 9.1 cubic feet per second July 5.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	28	25	37	30	43	32	14	23	18	24	28	27
2	33	25	31	30	47	26	13	18	17	20	47	28
3	30E	27	33	31	46	27	12	17	20	18	43	27
4	30E	26	35	32	44	27	12	16	21	17	42	24
5	29E	27	36	30E	42	26	9.1	17	22	17	34	22
6	30E	29	30	32E	39	24	11	19	21	16	33	22E
7	30E	28	34	32E	37	23	10	19	20	17	32	25
8	31	28E	38	30E	36	21	10	18	20	18	32	24
9	32	27E	39	30E	33	20	11	17	20	17	33	26
10	30E	27	37	32E	31	21	11	17	19	17	33	27
11	30E	27	38	30	30	22	10	19	20	19	31	26E
12	28E	26	38	32	28	23	11	22	20	19	29	24E
13	27E	27	38	31	27	22	11	20	18	19	30	23
14	27E	27	35	38	21	22	11	19	17	20	28E	23
15	25E	28	33	42	19	21	10	17	17	19	29E	25
16	24E	29	36	44	18	25	9.7	14	15	15	30E	27
17	20E	31	36	50	17	20	14	13	15	14	29	27
18	18	32	35	47	17	17	12	13	16	16	29	27
19	20	31	35	45	17	16	12	13	17	16	30	28
20	23	36	36	47	14	21	14	13	17	16	32	28E
21	24	35	36	49	13	24	14	14	18	16	30	25
22	25	34	34	45	12	20	14	13	18	17	31	23
23	24	35	34	44	12	17	13	13	23	17	31	22
24	24	33	34	44	12	18	13	13	23	21	30	25
25	24E	32	34	44	31	17	13	13	25	20E	30	25
26	23E	33	34	44	43	19	13	13	25	18E	30	23
27	22E	33	34	42	42	18	13	13	26	20E	31	23
28	23E	37	35	41	42	17	12	14	24	20E	30	23
29	23	-----	33	41	41	16	13	14	24	20E	30	25
30	23	-----	31	43	38	15	13	15	24	22E	29	24
31	24	-----	31	-----	35	-----	21	17	-----	23	-----	22
TOTAL	804	835	1,080	1,152	927	637	379.8	496	600	568	956	770
MEAN	25.9	29.8	34.8	38.4	29.9	21.2	12.3	16.0	20.0	18.3	31.9	24.8
MAX	33	37	39	50	47	32	21	23	26	24	47	28
MIN	18	25	30	30	12	15	9.1	13	15	14	28	22
AC-FT	1,590	1,660	2,140	2,280	1,840	1,260	753	984	1,190	1,130	1,900	1,530
YEAR 1997	TOTAL	9,204.8	MEAN	25.2	MAX	50	MIN	9.1	AC-FT	18,260		

# NIOBRARA RIVER BASIN

**BOX BUTTE RESERVOIR from Niobrara River, 06455000 - 1997**

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

GAGE.--Reference point

PERIOD OF RECORD.--1946 - present

DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				17,600	19,500			14,400		9,890		12,700
2	13,300					20,700	20,900					
3		14,600							8,820		11,200	
4												
5									8,890			
6								13,400				
7												
8												
9							19,200					
10												
11						20,900						
12												
13								12,700				
14				18,300	20,200							
15												
16							17,200					
17									9,320			
18		15,300				20,900						
19												
20								11,400				
21				18,900	20,200							
22												
23							14,900					
24												
25						21,000						
26												
27								9,780				
28					20,500							
29		-----										13,900
30		-----										
31		-----		-----		-----			-----		-----	

# NIOBRARA RIVER BASIN

## NIOBRARA RIVER below Box Butte Reservoir, 06455500 - 1997

LOCATION.--SE1/4 Sec. 28-29-49 W., Dawes County, Lat. 42° 27' 25", Long. 103° 04' 05", 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. E indicates estimated daily discharge. Estimated discharge January 10 due to backwater from ice. Records good, except discharges below 2.0 cfs are fair.

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 174 cubic feet per second July 21, gage height 4.35 feet; minimum daily discharge 0.85 cubic feet per second February 25 & 26.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	.98	.95	.86	1.0	.93	1.1	1.1	49	81	.88	1.1	1.1
2	.98	.95	.86	1.0	1.1	1.1	1.1	48	90	.86	1.0	1.1
3	1.0	.95	.87	1.1	.99	1.2	1.2	57	90	.87	1.0	1.1
4	.98	.95	.91	1.1	.97	1.1	1.2	85	90	.87	1.1	1.1
5	.97	.95	.93	1.2	.96	1.1	1.2	91	31	.88	1.1	1.1
6	.98	.95	.93	1.1	.98	1.1	65	86	1.2	.88	1.1	1.1
7	.98	.95	.91	1.1	.97	1.1	99	94	1.2	.90	1.1	1.1
8	.98	.95	.93	1.1	.99	1.1	112	97	1.1	.95	1.1	1.2
9	.96	.95	.95	1.1	.98	1.1	133	94	1.1	1.9	1.1	1.2
10	.90E	.95	.94	1.1	1.0	1.1	134	98	1.1	.94	1.1	1.2
11	.98	.92	.93	1.1	1.1	1.0	125	82	1.1	.94	1.1	1.2
12	.96	.91	.93	1.0	1.1	1.1	123	51	1.1	.96	1.1	1.2
13	.95	.93	.93	1.0	1.1	1.1	111	44	1.1	.99	1.0	1.2
14	.93	.93	.93	1.0	1.1	1.1	110	44	1.1	1.1	1.0	1.2
15	.90	.92	.93	1.0	1.1	1.1	117	46	1.1	1.0	1.0	1.1
16	.87	.91	.94	1.0	1.1	1.1	132	47	1.0	1.0	1.0	1.1
17	.87	.94	.95	.98	1.1	1.0	139	64	1.0	.98	1.0	1.1
18	.91	.94	.98	.97	1.1	1.0	138	91	1.0	.97	1.1	1.1
19	.93	.92	.98	.93	1.1	1.0	138	105	1.0	.95	1.1	1.1
20	.93	.91	.98	.93	1.1	1.1	142	117	1.1	.95	1.1	1.1
21	.93	.90	.98	.93	1.1	1.2	151	127	1.0	.97	1.1	1.1
22	.93	.89	.98	.91	1.1	1.1	159	115	1.0	.98	1.1	1.1
23	.93	.88	1.0	.92	1.2	1.1	133	102	1.1	.98	1.1	1.1
24	.93	.88	1.0	.90	1.1	1.1	121	103	1.0	1.1	1.1	1.1
25	.94	.85	.99	.90	1.5	1.2	103	106	1.0	1.1	1.1	1.1
26	.95	.85	.98	.90	1.2	1.1	95	107	.97	1.1	1.1	1.1
27	.94	.86	.99	.90	1.2	1.1	103	105	.92	1.1	1.1	1.1
28	.95	.87	1.0	.90	1.2	1.1	107	101	.92	1.1	1.1	1.1
29	.95	-----	1.0	.96	1.1	1.1	87	79	.91	1.1	1.1	1.1
30	.95	-----	1.0	.93	1.1	1.1	55	64	.87	1.1	1.1	1.2
31	.95	-----	1.0	-----	1.1	-----	51	67	-----	1.1	-----	1.2
TOTAL	29.29	25.71	29.49	29.96	33.77	32.9	2,988.8	2,566	407.99	31.50	32.3	35.0
MEAN	.94	.92	.95	1.00	1.09	1.10	96.4	82.8	13.6	1.02	1.08	1.13
MAX	1.0	.95	1.0	1.2	1.5	1.2	159	127	90	1.9	1.1	1.2
MIN	.87	.85	.86	.90	.93	1.0	1.1	44	.87	.86	1.0	1.1
AC-FT	58	51	58	59	67	65	5,930	5,090	809	62	64	69
YEAR 1997	TOTAL	6,242.71	MEAN	17.1	MAX	159	MIN	.85	AC-FT	12,380		

# NIOBRARA RIVER BASIN

MONTAGUE CANAL from Niobrara River, 00102000 - 1997

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 FOR 1997

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

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No water diverted in 1997

# NIOBRARA RIVER BASIN

LICHTE CANAL from Niobrara River, 00081000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
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	0			
6					0	0	0	0	0			
7					0	0	0	0	0			
8					0	0	0	0	0			
9					0	0	0	0	0			
10					0	0	.46	0	0			
11					0	0	2.1	0	0			
12					0	0	3.4	0	0			
13					0	0	3.4	0	0			
14					0	0	3.4	0	0			
15					0	0	3.4	0	0			
16					0	0	3.4	0	0			
17					0	0	3.4	0	0			
18					0	0	3.4	0	0			
19					0	0	3.4	0	0			
20					0	0	3.3	0	0			
21					0	0	3.3	0	0			
22					0	0	3.3	0	0			
23					0	0	3.3	0	0			
24					0	0	3.3	0	0			
25					0	0	3.3	0	0			
26					0	0	3.3	0	0			
27					0	0	3.3	0	0			
28					0	0	3.3	0	0			
29		-----			0	0	3.3	0	0			
30		-----			0	0	3.3	0	0			
31		-----		-----	0	-----	1.3	0	-----		-----	
TOTAL					0	0	67.36	0	0			
MEAN					0	0	2.17	0	0			
MAX					0	0	3.4	0	0			
MIN					0	0	0	0	0			
AC-FT					0	0	134	0	0			
YEAR 1997	MAX	3.4	MIN	0	AC-FT	134						

# NIOBRARA RIVER BASIN

**MIRAGE FLATS CANAL from Niobrara River, 00100000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	0	64	89			
2					0	0	0	65	108			
3					0	0	0	68	101			
4					0	0	0	95	103			
5					0	0	0	115	55			
6					0	0	0	106	0			
7					0	0	0	115	0			
8					0	0	61	117	0			
9					0	0	117	118	0			
10					0	0	127	120	0			
11					0	0	128	119	0			
12					0	0	115	81	0			
13					0	0	110	65	0			
14					0	0	106	58	0			
15					0	0	110	58	0			
16					0	0	124	62	0			
17					0	0	144	61	0			
18					0	0	116	92	0			
19					0	0	138	121	0			
20					0	0	145	126	0			
21					0	0	145	138	0			
22					0	0	125	127	0			
23					0	0	128	111	0			
24					0	0	125	109	0			
25					0	0	114	115	0			
26					0	0	103	117	0			
27					0	0	106	117	0			
28					0	0	114	104	0			
29		-----			0	0	104	99	0			
30		-----			0	0	69	77	0			
31		-----		-----	0	-----	74	81	-----		-----	
TOTAL					0	0	2,748	3,021	456			
MEAN					0	0	88.6	97.5	15.2			
MAX					0	0	145	138	108			
MIN					0	0	0	58	0			
AC-FT					0	0	5,450	5,990	904			
YEAR 1997	MAX	145	MIN	0	AC-FT	12,350						



# NIOBRARA RIVER BASIN

POTMESIL CANAL from Niobrara River, 00124000 - 1997

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

REMARKS.--E indicates estimated daily discharge. Estimated records May 10-13, June 30, July 1.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	5.0E	4.2	0			
2					0	0	5.7	4.4	.75			
3					0	0	5.7	3.6	4.4			
4					0	0	5.9	5.1	4.7			
5					0	0	6.0	5.3	1.2			
6					0	0	5.1	4.4	0			
7					0	0	4.3	5.3	0			
8					0	.37	4.8	5.8	0			
9					0	6.4	6.2	5.6	0			
10					1.8E	7.0	5.6	5.5	0			
11					3.6E	7.1	5.6	1.8	4.2			
12					3.6E	3.6	4.8	0	5.6			
13					3.6E	0	4.8	0	5.6			
14					3.8	0	4.1	0	5.5			
15					0	0	4.3	0	5.0			
16					0	0	5.0	.26	5.4			
17					3.2	0	5.3	1.8	5.3			
18					6.4	.97	5.0	4.1	1.2			
19					6.6	6.9	5.4	5.1	0			
20					4.4	7.3	5.4	4.2	0			
21					0	2.9	5.5	4.3	0			
22					0	0	4.9	4.0	0			
23					0	3.9	5.1	2.9	0			
24					0	.67	5.2	3.3	0			
25					0	0	3.9	4.0	0			
26					0	0	4.0	4.4	0			
27					0	0	4.0	3.9	0			
28					0	0	5.4	3.1	0			
29		-----			0	0	5.1	.51	0			
30		-----			0	2.0 E	4.2	0	0			
31		-----		-----	0	-----	3.9	0	-----		-----	
TOTAL					37.0	49.11	155.2	96.87	48.85			
MEAN					1.19	1.64	5.01	3.12	1.63			
MAX					6.6	7.3	6.2	5.8	5.6			
MIN					0	0	3.9	0	0			
AC-FT					73	97	308	192	97			
YEAR 1997	MAX	7.3	MIN	0	AC-FT	768						

# NIOBRARA RIVER BASIN

**SNAKE RIVER at Doughboy, 06459175 - 1997**

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

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

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

PERIOD OF RECORD.--1981 - present

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1993.

E indicates estimated daily discharge. Estimated daily discharges January 9-19, 24-28, November 14-16, December 5-7. Records good, except estimated records poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 367 cubic feet per second June 10, 1991, gage height 3.88 feet, present datum; maximum gage height 5.92 feet, present datum, January 7, 1982, due to backwater from ice; minimum daily discharge 79 cubic feet per second March 12, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharge 236 cubic feet per second January 4, gage height 2.36 feet; maximum gage height 3.94 feet January 19 due to backwater from ice, minimum daily discharge 120 cubic feet per second estimated January 11, 13, 15.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	201	210	184	170	192	183	168	182	160	162	183	177
2	210	209	185	169	192	189	156	172	163	165	182	178
3	226	205	188	169	185	213	155	186	156	167	176	169
4	230	197	180	175	207	213	156	172	157	164	178	174
5	201	193	176	173	193	219	157	185	164	163	182	160E
6	179	192	185	153	184	205	156	181	161	165	180	156E
7	181	190	184	159	182	185	153	174	159	167	176	150E
8	195	199	188	165	173	175	156	165	156	168	177	171
9	160E	194	188	168	169	169	160	162	153	169	175	172
10	140E	191	185	169	171	165	154	168	152	170	165	170
11	120E	193	185	168	170	166	166	172	152	176	170	165
12	130E	186	185	168	168	168	169	172	152	200	164	163
13	120E	191	174	174	169	167	167	173	153	182	167	167
14	130E	193	159	178	169	169	158	169	158	174	150E	170
15	120E	188	171	189	172	171	155	167	157	179	140E	169
16	130E	197	174	211	175	169	153	167	151	177	150E	170
17	140E	202	180	214	179	169	153	165	146	176	168	169
18	150E	201	180	211	179	166	154	165	146	178	172	168
19	160E	203	181	212	173	164	160	164	149	176	174	170
20	180	204	184	201	175	165	157	161	148	174	176	165
21	163	198	181	205	175	167	160	162	151	174	179	165
22	167	192	176	191	173	165	160	162	154	171	173	166
23	165	185	176	189	177	162	175	161	165	177	177	162
24	140E	190	173	181	183	162	162	160	166	179	173	161
25	130E	185	168	178	188	162	172	158	165	173	175	159
26	150E	190	172	180	211	160	161	160	164	163	178	157
27	140E	184	174	178	200	161	158	158	162	170	178	157
28	170E	185	169	176	195	162	157	158	160	185	179	159
29	196	-----	169	183	194	160	170	157	158	186	184	155
30	188	-----	168	189	196	162	178	164	162	186	178	159
31	200	-----	173	-----	189	-----	181	159	-----	189	-----	157
TOTAL	5,112	5,447	5,515	5,446	5,658	5,213	4,997	5,181	4,700	5,405	5,179	5,110
MEAN	165	195	178	182	183	174	161	167	157	174	173	165
MAX	230	210	188	214	211	219	181	186	166	200	184	178
MIN	120	184	159	153	168	160	153	157	146	162	140	150
AC-FT	10,140	10,800	10,940	10,800	11,220	10,340	9,910	10,280	9,320	10,720	10,270	10,140
YEAR 1997	TOTAL	62,963	MEAN	173	MAX	230	MIN	120	AC-FT	124,900		

# NIOBRARA RIVER BASIN

## MERRITT RESERVOIR from Snake River - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	69,390	65,530	68,830	69,110	75,370	75,660	74,490	61,940	54,140	59,410	69,110	68,830
2	69,670	65,530	68,830	69,390	75,370	75,960	74,490	62,710	53,680	59,910	69,110	68,830
3	69,670	69,110	68,830	69,110	75,370	76,250	74,490	62,960	53,230	60,410	69,110	68,830
4	69,670	69,110	68,830	69,110	75,370	76,250	74,490	63,220	52,780	60,910	69,110	68,830
5	69,670	69,110	68,830	69,110	75,370	76,250	74,490	63,480	52,780	61,170	69,110	68,830
6	69,670	69,110	68,830	69,110	75,370	76,250	74,490	63,220	52,780	61,680	68,830	68,830
7	69,670	69,110	68,830	69,390	75,370	76,250	74,490	62,710	52,560	62,190	68,830	68,830
8	69,670	68,830	68,830	69,390	75,370	75,960	74,490	62,190	52,330	62,710	69,110	68,830
9	69,390	68,830	68,830	69,390	75,370	75,960	74,490	61,420	52,110	63,220	69,110	68,830
10	69,390	68,830	68,830	69,670	75,370	75,660	73,630	60,660	52,330	63,480	69,110	68,830
11	69,110	68,830	68,830	69,450	75,370	75,370	73,050	60,160	52,330	64,000	69,110	68,830
12	68,830	68,830	68,830	70,230	75,370	75,370	72,480	59,660	52,560	64,800	69,110	68,830
13	68,560	68,830	69,110	70,230	75,370	75,080	72,480	59,410	53,010	65,590	69,110	68,830
14	68,290	68,830	69,110	70,500	75,080	75,080	72,480	59,410	53,230	66,120	68,830	68,830
15	68,290	68,830	69,110	70,500	75,080	75,080	72,770	59,410	53,230	66,930	68,830	68,830
16	68,290	68,830	69,110	70,780	75,080	75,080	72,480	59,160	53,450	67,470	68,830	68,830
17	68,560	68,830	69,110	71,620	75,080	75,080	72,480	58,920	53,680	68,020	68,830	68,830
18	68,830	68,830	69,110	72,190	75,080	75,080	71,910	58,670	53,910	68,560	68,830	68,830
19	68,830	68,830	69,110	72,480	75,080	75,080	71,340	58,180	54,140	68,830	68,830	68,830
20	69,110	68,830	69,110	73,050	74,780	75,080	70,500	57,690	54,380	69,110	68,830	68,830
21	69,670	68,830	69,110	73,630	74,780	74,780	69,670	57,210	54,840	69,390	68,830	68,830
22	69,670	68,830	69,110	73,910	74,490	74,780	68,830	56,730	55,310	69,390	68,830	69,110
23	69,670	68,830	69,110	74,490	74,490	74,780	68,020	56,730	55,770	69,670	68,830	69,390
24	69,670	68,830	69,110	75,080	74,490	74,490	67,200	56,730	56,250	69,670	69,110	69,390
25	69,390	68,830	69,110	75,080	74,780	74,490	66,660	56,730	56,730	69,670	69,110	69,110
26	69,390	68,830	69,110	75,080	74,780	74,490	65,850	56,490	57,210	69,670	69,110	69,110
27	69,110	68,830	69,110	75,080	74,780	74,780	65,060	56,000	57,690	69,670	68,830	69,110
28	68,830	68,830	69,110	75,080	75,080	74,780	64,000	55,540	58,180	69,390	68,830	69,110
29	68,830	-----	69,110	75,080	75,080	74,780	63,220	54,840	58,420	69,390	68,830	68,830
30	68,830	-----	69,110	75,080	75,370	74,490	62,450	54,610	58,920	68,830	68,830	68,830
31	68,830	-----	69,110	-----	75,370	-----	61,940	54,380	-----	69,110	-----	68,830
MAX	69,670	69,110	69,110	75,080	75,370	76,250	74,490	63,480	58,920	69,670	69,110	69,390
MIN	68,290	65,530	68,830	69,110	74,490	74,490	61,940	54,380	52,110	59,410	68,830	68,830
CHANGE	-560	0	280	5,970	290	-880	-12,550	-7,560	4,540	10,190	-280	0
YEAR 1997			MEAN	68,081	MAX	76,250	MIN	52,110				

# NIOBRARA RIVER BASIN

**AINSWORTH CANAL from Merritt Reservoir, 00001000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	53	114	80	329			
2					0	56	74	91	397			
3					0	59	75	125	393			
4					0	59	75	188	377			
5					0	59	83	293	327			
6					0	58	92	431	295			
7					0	57	124	498	299			
8					0	57	195	573	276			
9					0	63	288	535	152			
10					0	68	414	531	114			
11					0	66	492	500	109			
12					0	66	511	370	105			
13					0	60	245	340	101			
14					0	57	105	274	102			
15					0	58	170	287	95			
16					19	63	275	301	85			
17					125	68	372	313	80			
18					100	68	473	384	66			
19					101	67	571	419	50			
20					108	67	575	465	19			
21					121	67	597	435	0			
22					128	67	596	240	0			
23					124	78	600	196	0			
24					117	105	618	211	0			
25					117	131	610	273	0			
26					105	140	607	378	0			
27					68	150	609	451	0			
28					54	167	619	473	0			
29					53	188	610	385	0			
30					53	241	558	304	0			
31					53	-----	508	309	-----			
TOTAL					1,446	2,563	11,855	10,653	3,771			
MEAN					46.6	85.4	382	344	126			
MAX					128	241	619	573	397			
MIN					0	53	74	80	0			
AC-FT					2,870	5,080	23,510	21,130	7,480			
YEAR 1997	MAX	619	MIN	0	AC-FT	60,080						

# NIOBRARA RIVER BASIN

## SNAKE RIVER near Burge, 06459500 - 1997

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.  
No estimated daily discharges. Record 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 377 cubic feet per second May 5, gage height 2.32 feet; minimum daily discharge 14 cubic feet per second October 11.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	256	237	245	252	278	187	123	69	67	15	254	321
2	289	239	252	252	293	233	142	67	67	15	256	321
3	312	256	252	252	304	290	143	68	65	15	252	306
4	310	299	252	252	304	226	142	67	65	15	253	283
5	307	298	249	250	298	274	140	67	65	15	256	285
6	308	300	248	256	236	296	140	66	65	15	254	289
7	311	301	248	256	246	285	130	64	63	15	252	289
8	313	298	248	256	248	265	112	63	63	15	252	249
9	315	298	248	254	245	243	80	63	63	15	250	215
10	317	298	245	252	246	227	74	63	63	15	248	219
11	317	302	244	256	251	216	70	63	65	14	248	217
12	313	266	246	230	247	198	66	65	65	19	268	215
13	312	244	248	202	247	194	69	65	65	15	312	215
14	246	244	248	182	245	195	67	65	67	15	312	215
15	149	246	248	117	244	191	67	65	67	15	312	214
16	146	248	250	96	241	189	67	65	67	15	312	215
17	146	248	252	96	226	185	67	65	67	15	287	215
18	146	264	252	96	211	185	67	64	67	15	248	215
19	146	310	251	97	197	211	66	63	68	15	248	215
20	146	312	245	99	186	244	67	63	69	15	248	213
21	178	312	248	113	184	238	67	63	68	67	254	212
22	228	312	251	175	170	237	69	63	68	207	256	261
23	263	312	248	216	158	229	66	63	70	256	256	309
24	308	312	248	233	158	137	66	63	70	256	270	313
25	312	312	248	240	168	62	66	63	68	256	313	316
26	310	280	248	248	196	71	65	63	68	256	317	312
27	307	244	248	253	209	76	65	64	68	254	317	308
28	307	244	251	252	226	73	65	65	68	253	317	307
29	307	-----	249	258	165	88	65	66	68	270	319	305
30	303	-----	252	273	238	111	65	67	52	297	321	303
31	207	-----	252	-----	257	-----	68	67	-----	252	-----	303
TOTAL	8,135	7,836	7,714	6,264	7,122	5,856	2,626	2,007	1,981	2,927	8,262	8,175
MEAN	262	280	249	209	230	195	84.7	64.7	66.0	94.4	275	264
MAX	317	312	252	273	304	296	143	69	70	297	321	321
MIN	146	237	244	96	158	62	65	63	52	14	248	212
AC-FT	16,140	15,540	15,300	12,420	14,130	11,620	5,210	3,980	3,930	5,810	16,390	16,220
YEAR 1997	TOTAL	68,905	MEAN	189	MAX	321	MIN	14	AC-FT	136,700		

# NIOBRARA RIVER BASIN

**KEYA PAHA RIVER near Naper, 06464900 - 1997**

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.  
E indicates estimated daily discharge. Estimated records January 1-March 3, April 8-11, July 22-August 18, November 15-21, December 6-31. Records good, except estimated records 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 3,440 cubic feet per second March 4, gage height 8.29 feet; maximum gage height 14.35 feet February 20, due to backwater from ice jam; minimum daily discharge 93 cubic feet per second August 24 & 26.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	200E	300E	540E	235	705	818	126	154E	142	102	332	217
2	260E	490E	520E	265	962	752	113	230E	225	100	306	209
3	310E	540E	500E	282	1,110	693	108	206E	185	99	270	200
4	380E	440E	492	302	989	920	122	168E	157	101	256	206
5	290E	380E	402	417	882	1,030	133	142E	143	97	252	171
6	260E	340E	386	435	730	836	126	130E	287	97	227	170E
7	245E	360E	378	238	612	735	133	120E	491	98	226	180E
8	240E	330E	410	235E	499	713	133	110E	257	99	232	190E
9	200E	300E	472	245E	440	828	123	100E	179	110	242	180E
10	175E	280E	475	250E	538	685	115	99E	143	117	241	170E
11	145E	260E	509	270E	550	576	107	99E	126	123	236	160E
12	114E	250E	513	283	498	529	140	104E	115	171	240	180E
13	114E	235E	478	321	431	578	225	108E	122	306	238	170E
14	116E	250E	378	468	409	554	227	110E	123	485	253	180E
15	116E	310E	260	836	385	466	244	116E	121	494	190E	190E
16	114E	620E	239	938	367	389	239	104E	119	494	150E	190E
17	116E	1,400E	286	925	368	349	205	98E	124	419	120E	200E
18	116E	2,250E	327	808	361	289	157	100E	114	349	140E	210E
19	118E	2,500E	310	728	348	267	127	120	122	313	130E	190E
20	160E	2,250E	374	692	350	296	127	122	123	285	150E	170E
21	215E	1,900E	362	672	333	341	119	106	121	260	160E	180E
22	290E	1,550E	356	961	330	338	120E	98	130	241	172	190E
23	270E	1,140E	400	978	321	261	136E	94	136	236	201	180E
24	220E	920E	396	894	326	220	122E	93	126	231	227	170E
25	200E	800E	306	753	343	192	117E	95	123	245	233	170E
26	185E	680E	327	668	490	196	108E	93	122	254	245	180E
27	165E	640E	330	521	912	180	98E	107	116	245	253	170E
28	150E	580E	334	473	961	155	98E	106	108	250	255	160E
29	145E	-----	291	435	843	144	94E	94	104	276	242	170E
30	165E	-----	259	546	719	130	94E	111	103	292	220	160E
31	184E	-----	230	-----	662	-----	129E	115	-----	321	-----	170E
TOTAL	5,978	22,295	11,840	16,074	17,774	14,460	4,265	3,652	4,607	7,310	6,639	5,633
MEAN	193	796	382	536	573	482	138	118	154	236	221	182
MAX	380	2,500	540	978	1,110	1,030	244	230	491	494	332	217
MIN	114	235	230	235	321	130	94	93	103	97	120	160
AC-FT	11,860	44,220	23,480	31,880	35,250	28,680	8,460	7,240	9,140	14,500	13,170	11,170
YEAR 1997	TOTAL	120,527	MEAN	330	MAX	2,500	MIN	93	AC-FT	239,100		

## NORTH PLATTE RIVER BASIN

## FORT LARAMIE CANAL from North Platte River, 00052000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	1,370	1,400	1,460			
2					0	0	1,420	1,400	1,460			
3					0	0	1,450	1,400	1,430			
4					548	0	1,490	1,380	1,400			
5					658	0	1,510	1,310	1,330			
6					656	0	1,510	1,260	1,260			
7					728	0	1,500	1,300	1,260			
8					733	0	1,510	1,310	1,230			
9					762	0	1,510	1,330	1,210			
10					781	0	1,510	1,320	1,180			
11					836	0	1,510	1,230	1,160			
12					866	0	1,510	1,160	1,150			
13					912	0	1,500	1,150	1,130			
14					981	0	1,510	1,150	1,100			
15					1,050	0	1,510	1,160	1,100			
16					1,120	609	1,510	1,160	1,070			
17					1,180	811	1,510	1,180	989			
18					1,210	806	1,510	1,240	957			
19					1,210	809	1,510	1,230	933			
20					1,250	814	1,510	1,240	902			
21					1,280	811	1,510	1,310	902			
22					1,240	806	1,510	1,340	779			
23					1,190	841	1,510	1,390	463			
24					1,160	859	1,500	1,430	0			
25					846	884	1,500	1,440	0			
26					548	931	1,510	1,480	0			
27					70	957	1,510	1,490	0			
28					0	989	1,510	1,510	0			
29		-----			0	1,040	1,500	1,500	0			
30		-----			0	1,140	1,490	1,460	0			
31		-----		-----	0	-----	1,370	1,460	-----			
TOTAL					21,815	13,107	46,290	41,120	25,855			
MEAN					704	437	1,493	1,326	862			
MAX					1,280	1,140	1,510	1,510	1,460			
MIN					0	0	1,370	1,150	0			
AC-FT					43,270	26,000	91,820	81,560	51,280			
YEAR 1997	MAX	1,510	MIN	0	AC-FT	293,900						

# NORTH PLATTE RIVER BASIN

**FORT LARAMIE CANAL from North Platte River @ Mile Post 85.3, 00052200 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	364	603	581			
2					0	0	410	612	572			
3					0	0	512	608	559			
4					0	0	553	612	557			
5					0	0	564	610	540			
6					0	0	577	608	525			
7					210	0	588	610	500			
8					348	0	590	608	489			
9					364	0	583	603	473			
10					361	0	574	603	496			
11					366	0	581	605	479			
12					364	0	579	594	479			
13					364	0	581	574	485			
14					352	0	590	568	489			
15					359	0	594	561	471			
16					353	0	590	561	459			
17					391	0	588	557	449			
18					427	35	592	570	431			
19					471	389	594	559	398			
20					463	374	599	568	394			
21					459	366	605	566	392			
22					465	353	608	568	394			
23					451	359	608	579	366			
24					343	372	605	441	311			
25					500	357	603	605	204			
26					398	363	601	605	118			
27					265	359	599	603	84			
28					177	353	601	603	84			
29					107	352	614	608	83			
30		-----			52	361	628	596	0			
31		-----		-----	17	-----	626	581	-----			
TOTAL					8,427	4,393	17,901	18,149	11,862			
MEAN					272	146	577	585	395			
MAX					500	389	628	612	581			
MIN					0	0	364	441	0			
AC-FT					16,710	8,710	35,510	36,000	23,530			
YEAR 1997	MAX	628	MIN	0	AC-FT	120,500						



# NORTH PLATTE RIVER BASIN

INTERSTATE CANAL from North Platte River, 00071000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					906	0	1,930	1,820	1,920			
2					904	0	1,980	1,810	1,920			
3					901	0	1,970	1,820	1,920			
4					901	0	1,970	1,870	1,890			
5					898	0	1,980	1,850	1,820			
6					906	0	1,980	1,800	1,770			
7					960	0	2,010	1,810	1,780			
8					1,080	0	2,030	1,800	1,760			
9					1,200	0	2,030	1,850	1,690			
10					1,220	0	2,060	1,830	1,600			
11					1,260	0	2,060	1,800	1,600			
12					1,310	0	2,060	1,700	1,600			
13					1,360	0	2,060	1,690	1,600			
14					1,440	0	2,070	1,680	1,610			
15					1,510	0	2,070	1,680	1,610			
16					1,550	0	2,070	1,670	1,610			
17					1,550	0	2,060	1,680	1,600			
18					1,550	0	2,050	1,750	1,550			
19					1,550	0	2,040	1,780	1,540			
20					1,550	0	2,010	1,830	1,490			
21					1,550	105	2,000	1,820	1,490			
22					1,530	784	2,000	1,830	1,470			
23					1,450	918	2,000	1,870	1,450			
24					1,450	1,130	2,000	1,870	1,400			
25					1,420	1,370	1,990	1,890	1,340			
26					1,330	1,420	1,970	1,890	1,300			
27					1,020	1,530	1,970	1,900	1,300			
28					870	1,750	1,970	1,900	1,060			
29		-----			904	1,880	1,970	1,910	470			
30		-----			573	1,910	1,910	1,910	0			
31		-----		-----	32	-----	1,860	1,910	-----			
TOTAL					36,635	12,797	62,130	56,220	45,160			
MEAN					1,182	427	2,004	1,814	1,505			
MAX					1,550	1,910	2,070	1,910	1,920			
MIN					32	0	1,860	1,670	0			
AC-FT					72,670	25,380	123,200	111,500	89,570			
YEAR 1997	MAX	2,070	MIN	0	AC-FT	422,400						

# NORTH PLATTE RIVER BASIN

**LAKE ALICE RESERVOIR from North Platte, 00400300 - 1997**

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

GAGE.--Reference point

PERIOD OF RECORD.--1977 - present

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

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

DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	520	327	267	210	133	9,670	6,480	3,090	5,820	4,150	1,230	967
2	515	327	265	209	1,130	9,410	6,470	3,250	5,900	3,520	1,210	939
3	526	324	263	207	1,600	8,480	6,460	3,460	6,020	2,800	1,200	937
4	512	324	260	205	2,100	7,600	6,420	3,640	6,150	2,120	1,190	935
5	502	322	258	204	2,630	6,740	6,340	3,810	6,320	1,510	1,180	935
6	489	322	256	202	2,860	5,860	6,170	3,950	6,490	1,160	1,180	914
7	476	320	254	201	3,170	5,080	5,930	4,110	6,630	1,180	1,160	907
8	474	320	252	199	3,200	4,330	5,630	4,230	6,780	1,190	1,160	890
9	489	318	250	197	3,230	4,080	5,320	4,270	6,900	1,190	1,150	886
10	476	316	249	346	3,560	4,080	4,990	4,330	7,080	1,200	1,160	876
11	466	314	247	194	3,720	4,060	4,620	4,450	7,110	1,220	1,150	876
12	454	312	245	193	3,990	4,040	4,300	4,660	7,000	1,230	1,130	865
13	439	310	243	191	4,230	4,010	4,020	4,870	6,740	1,230	1,150	848
14	430	308	241	189	4,590	4,010	3,870	5,130	6,380	1,210	1,120	842
15	408	306	240	185	4,940	3,960	3,710	5,240	6,060	1,210	1,100	835
16	401	304	238	180	5,260	3,940	3,580	5,570	5,750	1,210	1,100	832
17	388	302	236	176	5,650	3,900	3,450	5,770	5,490	1,210	1,090	588
18	372	300	234	173	5,810	3,880	3,340	5,880	5,290	1,210	1,080	580
19	365	296	233	170	5,810	3,850	3,290	5,960	5,160	1,200	1,070	574
20	365	292	231	167	6,620	3,840	3,220	6,000	5,050	1,200	1,070	569
21	361	288	229	167	6,790	3,780	3,180	5,990	4,970	1,190	1,060	563
22	343	284	227	164	7,050	3,760	3,130	5,930	4,940	1,190	1,040	558
23	343	279	226	161	7,500	3,740	3,100	5,830	4,910	1,180	1,040	552
24	343	275	224	158	7,660	4,120	3,060	5,800	4,840	1,260	1,030	547
25	339	271	222	155	7,850	4,910	3,040	5,750	4,750	1,260	1,020	542
26	337	267	221	151	8,040	5,320	3,020	5,730	4,750	1,250	1,000	536
27	333	269	219	148	8,880	5,500	2,970	5,720	4,750	1,240	1,000	531
28	331	269	217	145	9,330	5,700	2,950	5,690	4,780	1,240	986	526
29	331	-----	215	141	9,570	6,000	2,920	5,680	4,750	1,240	975	520
30	329	-----	214	137	10,100	6,370	2,950	5,690	4,490	1,230	971	515
31	329	-----	212	-----	10,000	-----	2,980	5,750	-----	1,230	-----	510
MAX	526	327	267	346	10,100	9,670	6,480	6,000	7,110	4,150	1,230	967
MIN	329	267	212	137	133	3,740	2,920	3,090	4,490	1,160	971	510
YEAR 1997			MAX	10,100	MIN	133						

# NORTH PLATTE RIVER BASIN

## LITTLE LAKE ALICE RESERVOIR from North Platte River, 00405200 - 1997

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

GAGE.--Slope gage

PERIOD OF RECORD.--1992 - present

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

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

### DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	64	68	52	22	21	178	334	314	339	371	173	168
2	64	68	51	21	201	265	336	313	341	365	169	164
3	65	68	51	21	240	374	317	317	343	349	169	163
4	67	68	51	32	271	379	312	321	345	319	169	163
5	68	67	49	34	288	384	306	327	346	286	175	164
6	69	67	49	31	318	378	298	329	346	152	175	163
7	69	69	49	29	346	362	293	333	346	102	175	163
8	70	81	49	27	355	349	289	336	349	122	176	163
9	71	83	47	25	297	315	284	341	350	134	175	163
10	70	77	47	23	274	290	284	350	352	140	175	163
11	70	72	45	33	276	288	295	351	367	144	175	162
12	72	66	45	64	237	290	297	351	373	145	174	161
13	72	64	45	76	205	292	302	352	368	143	175	161
14	72	62	44	79	205	296	306	353	364	145	173	161
15	72	61	43	21	208	298	304	353	359	145	173	160
16	72	60	42	21	190	299	302	353	352	144	172	160
17	71	60	42	21	185	302	302	349	358	144	173	160
18	73	59	41	21	185	302	296	342	360	143	172	159
19	73	58	40	21	189	304	294	342	360	144	171	160
20	73	58	39	21	193	306	290	341	355	152	171	158
21	73	57	38	21	192	305	286	342	354	158	171	155
22	72	56	36	21	199	305	278	342	353	163	170	153
23	72	55	34	21	193	307	276	342	353	165	169	151
24	71	55	35	21	208	312	276	342	374	184	169	149
25	71	54	34	21	200	316	276	341	384	181	169	149
26	70	54	33	21	201	310	280	341	386	179	168	147
27	70	53	35	21	202	315	283	339	382	176	168	148
28	69	53	31	21	204	289	289	337	384	176	168	146
29	69	-----	31	21	207	314	288	337	385	175	168	145
30	69	-----	27	21	206	333	294	337	380	175	168	146
31	68	-----	24	-----	326	-----	309	338	-----	174	-----	147
MAX	73	83	52	79	355	384	336	353	386	371	176	168
MIN	64	53	24	21	21	178	276	313	339	102	168	145
YEAR 1997			MAX	386	MIN	21						

# NORTH PLATTE RIVER BASIN

**LAKE MINATARE RESERVOIR from North Platte, 00406300 - 1997**

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

GAGE.--Staff gage

PERIOD OF RECORD.--1977 - present

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

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

DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	38,400	38,000	37,700	37,100	36,800	48,500	53,900	37,200	26,900	37,100	39,900	39,100
2	38,300	38,000	37,700	37,100	37,000	49,100	53,700	36,700	26,400	37,800	39,800	39,200
3	38,300	38,000	37,600	37,000	37,500	49,600	53,500	36,300	26,000	38,500	39,800	39,200
4	38,300	38,000	37,600	37,200	38,100	50,300	53,200	36,000	25,600	39,100	39,800	39,100
5	38,300	38,000	37,600	37,200	38,600	51,100	53,000	35,800	25,300	39,700	39,600	39,000
6	38,300	38,000	37,600	37,100	39,500	51,900	52,500	35,600	25,000	40,200	39,600	39,100
7	38,200	38,100	37,600	37,100	39,900	52,500	51,900	35,100	24,600	40,300	39,600	39,000
8	38,300	38,000	37,600	37,100	40,900	53,200	51,400	34,800	24,400	40,300	39,700	39,000
9	38,300	37,900	37,600	37,100	41,400	53,800	50,900	34,500	24,200	40,200	39,600	39,100
10	38,300	37,900	37,500	37,100	42,200	53,900	50,200	34,300	24,000	40,200	39,600	39,000
11	38,200	37,900	37,500	37,100	42,500	53,700	49,600	34,000	24,000	40,100	39,600	39,000
12	38,200	37,900	37,600	37,100	43,000	53,700	48,900	33,900	24,000	40,100	39,600	38,900
13	38,200	37,900	37,600	37,000	43,500	53,600	48,100	33,600	24,400	40,000	39,600	38,900
14	38,200	37,900	37,600	37,000	43,700	53,600	47,500	33,400	24,900	40,000	39,500	38,900
15	38,200	37,800	37,500	37,000	43,800	53,400	46,800	33,300	25,200	39,800	39,400	38,900
16	38,200	37,800	37,500	36,900	43,900	53,300	46,200	33,200	25,500	39,800	39,500	38,900
17	38,200	37,800	37,400	36,900	44,000	53,300	45,600	33,000	25,900	39,800	39,400	38,900
18	38,100	37,800	37,400	37,000	44,100	53,300	44,900	32,800	26,600	39,800	39,400	38,900
19	38,100	37,800	37,400	37,000	44,000	53,300	44,400	32,600	27,300	39,800	39,400	38,900
20	38,100	37,800	37,400	36,900	44,000	53,300	43,700	32,300	27,800	39,800	39,400	38,900
21	38,100	37,700	37,400	36,900	44,000	53,100	43,100	32,000	28,500	39,800	39,400	38,900
22	38,100	37,700	37,400	36,900	44,200	53,000	42,600	31,600	29,200	39,800	39,400	38,800
23	38,200	37,800	37,300	36,900	44,200	53,000	42,000	31,100	29,900	39,700	39,300	38,800
24	38,100	37,700	37,400	36,900	44,400	53,000	41,400	30,800	30,500	40,000	39,200	38,800
25	38,200	37,700	37,400	36,800	44,800	52,900	40,900	30,300	31,200	40,000	39,200	38,800
26	38,100	37,800	37,200	36,800	45,000	53,300	40,200	29,900	32,100	39,900	39,300	38,800
27	38,100	37,700	37,200	36,700	45,200	53,700	39,600	29,300	33,000	39,900	39,200	38,700
28	38,100	37,700	37,200	36,700	45,500	54,000	39,100	28,900	34,000	39,900	39,200	38,800
29	38,000	-----	37,100	36,800	46,200	54,000	38,600	28,400	35,200	39,900	39,200	38,700
30	38,000	-----	37,100	36,800	46,700	54,000	38,000	27,900	36,200	39,800	39,200	38,700
31	38,000	-----	37,000	-----	47,400	-----	37,600	27,400	-----	39,800	-----	38,700
MAX	38,400	38,100	37,700	37,200	47,400	54,000	53,900	37,200	36,200	40,300	39,900	39,200
MIN	38,000	37,700	37,000	36,700	36,800	48,500	37,600	27,400	24,000	37,100	39,200	38,700
YEAR 1997			MAX	54,000	MIN	24,000						

## NORTH PLATTE RIVER BASIN

## WINTERS CREEK RESERVOIR, 00412000 - 1997

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

## DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1,130	1,030	961	744	657	1,240	932	865	865	672	657	1,130
2	1,120	1,030	961	744	651	1,250	935	865	880	670	653	1,120
3	1,120	1,030	957	734	651	1,250	930	867	882	668	662	1,120
4	1,120	1,020	957	748	639	1,250	950	867	882	670	662	1,120
5	1,120	1,020	955	746	641	1,250	946	875	878	678	653	1,120
6	1,120	1,020	943	746	641	1,250	952	917	882	686	649	1,110
7	1,120	1,010	946	744	643	1,250	948	926	871	678	645	1,110
8	1,120	1,010	941	744	637	1,240	946	893	860	662	649	1,120
9	1,120	1,010	935	742	634	1,250	948	906	869	676	645	1,120
10	1,120	1,010	930	742	630	1,250	964	948	670	694	641	1,120
11	1,120	1,010	841	742	630	1,250	952	912	682	668	637	1,120
12	1,120	1,010	843	736	622	1,050	946	935	680	662	641	1,110
13	1,120	1,010	835	728	618	1,000	930	932	686	670	637	1,110
14	1,110	1,010	833	726	641	1,020	932	923	700	664	637	1,100
15	1,110	1,010	829	726	680	1,030	935	915	676	664	628	1,100
16	1,110	1,000	824	720	716	1,000	932	906	672	668	649	1,100
17	1,110	995	816	714	746	1,000	950	912	680	664	634	1,100
18	1,110	997	814	710	774	995	915	899	680	662	886	1,100
19	1,100	991	808	706	801	988	915	904	676	678	912	1,100
20	1,100	991	801	706	833	993	915	902	680	676	895	1,090
21	1,100	988	801	698	884	952	908	899	680	670	897	1,090
22	1,040	984	797	688	926	959	902	888	684	670	886	1,090
23	1,040	984	791	686	966	964	886	888	688	670	895	1,090
24	1,040	979	783	680	1,030	961	878	884	664	653	839	1,090
25	1,040	973	778	672	1,080	946	871	891	672	649	1,140	1,080
26	1,040	975	772	672	1,130	943	863	893	684	645	1,130	1,080
27	1,040	973	768	664	1,170	957	858	882	668	649	1,140	1,080
28	1,040	970	766	661	1,210	991	856	886	664	653	1,130	1,070
29	1,040	-----	758	664	1,240	952	858	873	662	657	1,130	1,070
30	1,030	-----	752	661	1,240	966	856	884	668	668	1,130	1,070
31	1,030	-----	740	-----	1,240	-----	871	895	-----	657	-----	1,060
MAX	1,130	1,030	961	748	1,240	1,250	964	948	882	694	1,140	1,130
MIN	1,030	970	740	661	618	943	856	865	662	645	628	1,060
YEAR 1997			MAX	1,250	MIN	618						

# NORTH PLATTE RIVER BASIN

**MITCHELL & GERING CANAL from North Platte River, 00101100 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	108	255	301	332	166		
2					0	81	266	303	330	165		
3					0	49	296	326	331	166		
4					0	105	322	336	329	166		
5					75	89	326	334	310	165		
6					146	79	333	332	302	165		
7					158	80	346	333	300	165		
8					150	82	346	336	302	164		
9					152	83	353	338	287	166		
10					156	82	358	339	272	166		
11					156	82	358	340	272	166		
12					153	81	354	342	269	166		
13					155	81	354	307	264	83		
14					177	81	351	294	261	0		
15					185	83	354	291	261	0		
16					187	88	357	291	234	0		
17					201	86	361	295	218	0		
18					209	86	361	292	219	0		
19					211	86	359	293	223	0		
20					227	86	359	294	225	0		
21					239	87	354	313	222	0		
22					240	85	355	329	221	0		
23					238	86	357	346	203	0		
24					237	85	355	349	177	0		
25					212	112	353	349	166	0		
26					200	120	360	348	166	0		
27					154	156	356	348	166	0		
28					115	176	357	349	166	0		
29					103	173	357	350	166	0		
30		-----			105	195	352	339	165	0		
31		-----		-----	108	-----	328	332	-----	0	-----	
TOTAL					4,649	2,953	10,653	10,069	7,359	2,069		
MEAN					150	98.4	344	325	245	66.7		
MAX					240	195	361	350	332	166		
MIN					0	49	255	291	165	0		
AC-FT					9,220	5,860	21,130	19,970	14,600	4,100		
YEAR 1997	MAX	361	MIN	0	AC-FT	74,880						

## NORTH PLATTE RIVER BASIN

GERING CANAL from North Platte River via Mitchell and Gering Canal, 00056000 - 1997

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 &amp; Gering Canal and the Gering Canal flumes.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	47	98	184	211	155		
2					0	145	115	191	203	158		
3					0	109	130	196	203	157		
4					0	34	143	202	194	157		
5					0	74	146	197	196	156		
6					0	52	147	181	209	157		
7					23	54	164	181	200	157		
8					72	26	175	210	205	158		
9					88	2.4	183	206	206	154		
10					83	2.8	190	223	206	154		
11					83	5.2	197	223	208	154		
12					82	0	191	211	209	153		
13					81	0	196	214	209	151		
14					78	0	198	207	200	36		
15					79	0	200	207	202	0		
16					82	26	198	201	196	0		
17					92	78	208	209	166	0		
18					102	78	209	201	163	0		
19					104	75	209	196	167	0		
20					110	74	204	206	169	0		
21					109	64	205	204	170	0		
22					133	48	206	193	167	0		
23					91	53	208	208	168	0		
24					101	68	209	212	160	0		
25					122	60	200	217	145	0		
26					95	64	212	208	151	0		
27					78	63	215	196	148	0		
28					62	77	215	201	148	0		
29					40	71	221	213	152	0		
30		-----			38	73	211	213	155	0		
31		-----		-----	44	-----	255	216	-----	0	-----	
TOTAL					2,072	1,523.4	5,858	6,327	5,486	2,057		
MEAN					66.8	50.8	189	204	193	66.4		
MAX					133	145	255	223	211	158		
MIN					0	0	98	181	145	0		
AC-FT					4,110	3,020	11,620	12,550	10,880	4,080		
YEAR 1997	MAX	255	MIN	0	AC-FT	46,260						

# NORTH PLATTE RIVER BASIN

**TRI-STATE CANAL from North Platte River, 00145100 - 1997**

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 are 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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	197	940	1,160	1,050			
2					0	198	1,100	1,120	1,050			
3					0	180	1,170	1,120	1,050			
4					0	0	1,210	1,110	1,020			
5					567	0	1,250	1,100	971			
6					627	0	1,270	1,060	941			
7					690	0	1,270	1,060	844			
8					705	0	1,250	1,050	842			
9					714	0	1,280	1,060	814			
10					736	0	1,300	1,070	822			
11					719	0	1,300	1,070	778			
12					706	0	1,290	1,010	708			
13					696	0	1,260	995	647			
14					669	0	1,270	982	618			
15					661	0	1,260	926	611			
16					672	0	1,270	881	606			
17					691	0	1,270	883	598			
18					693	402	1,270	881	592			
19					693	412	1,270	881	599			
20					692	419	1,260	891	594			
21					691	418	1,250	965	584			
22					697	411	1,250	999	581			
23					700	464	1,250	1,010	553			
24					681	564	1,250	1,040	506			
25					624	597	1,260	1,040	319			
26					584	599	1,260	1,040	139			
27					586	600	1,230	1,050	102			
28					596	668	1,230	1,050	84			
29					580	799	1,190	1,050	0			
30		-----			577	860	1,210	1,050	0			
31		-----		-----	355	-----	1,180	1,050	-----		-----	
TOTAL					17,602	7,788	38,320	31,654	18,623			
MEAN					568	260	1,236	1,021	621			
MAX					736	860	1,300	1,160	1,050			
MIN					0	0	940	881	0			
AC-FT					34,910	15,450	76,010	62,790	36,940			
YEAR 1997	MAX	1,300	MIN	0	AC-FT	226,100						



## NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Sheep Creek, 00144700 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	47	78	80			
2					0	0	49	80	78			
3					0	0	50	80	80			
4					0	0	50	80	90			
5					0	0	49	83	85			
6					0	0	49	85	80			
7					0	0	49	81	81			
8					0	0	49	79	81			
9					0	0	48	77	80			
10					0	0	45	80	82			
11					0	0	48	88	81			
12					0	0	49	90	81			
13					0	0	50	91	83			
14					0	0	50	92	83			
15					0	0	50	94	83			
16					0	0	51	90	83			
17					0	0	51	90	83			
18					0	0	51	92	83			
19					0	0	51	92	87			
20					0	0	62	92	87			
21					0	23	56	87	88			
22					0	21	54	85	89			
23					0	19	58	83	7.0			
24					0	20	59	80	0			
25					0	21	59	79	0			
26					0	23	60	79	0			
27					0	35	61	79	0			
28					0	46	61	77	0			
29		-----			0	48	69	78	0			
30		-----			0	48	68	78	0			
31		-----		-----	0	-----	83	77	-----			
TOTAL					0	304	1,686	2,596	1,835.0			
MEAN					0	10.1	54.4	83.7	61.2			
MAX					0	48	83	94	90			
MIN					0	0	45	77	0			
AC-FT					0	603	3,340	5,150	3,640			
YEAR 1997	MAX	94	MIN	0	AC-FT	12,740						

# NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Akers Draw, 00144500 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					8.0	9.0	4.0	15	12			
2					8.0	10	14	12	13			
3					8.0	10	10	11	13			
4					9.0	11	13	11	12			
5					9.0	11	14	9.0	10			
6					9.0	11	16	8.0	8.0			
7					9.0	12	16	10	6.0			
8					9.0	12	13	13	4.0			
9					9.0	12	13	14	5.0			
10					10	12	14	17	6.0			
11					10	13	14	15	7.0			
12					10	13	13	11	8.0			
13					10	13	10	14	9.0			
14					10	12	11	9.0	10			
15					10	12	11	7.0	12			
16					10	11	11	8.0	13			
17					9.0	11	11	10	14			
18					9.0	11	12	12	14			
19					9.0	11	13	14	14			
20					8.0	10	14	12	15			
21					8.0	10	14	13	15			
22					8.0	10	12	14	15			
23					8.0	10	12	12	16			
24					8.0	11	13	14	17			
25					8.0	11	14	14	14			
26					8.0	10	16	11	12			
27					9.0	9.0	16	9.0	11			
28					9.0	7.0	16	10	12			
29					9.0	6.0	13	10	12			
30					9.0	5.0	14	11	12			
31					9.0		17	12				
TOTAL					276.0	316.0	404.0	362.0	341.0			
MEAN					8.90	10.5	13.0	11.7	11.4			
MAX					10	13	17	17	17			
MIN					8.0	5.0	4.0	7.0	4.0			
AC-FT					547	627	801	718	676			
YEAR 1997	MAX	17	MIN	4.0	AC-FT	3,370						

# NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Dry Spotted Tail Creek, 00144600 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	8.0	22	21			
2					0	0	8.0	26	20			
3					0	0	9.0	22	21			
4					0	0	10	23	21			
5					0	0	10	23	20			
6					0	0	11	23	19			
7					0	0	10	23	20			
8					0	0	10	23	19			
9					0	0	10	21	19			
10					0	0	9.0	24	19			
11					0	0	11	25	19			
12					0	0	12	22	18			
13					0	0	13	20	17			
14					0	0	12	21	16			
15					0	0	13	21	16			
16					0	0	13	20	16			
17					0	0	14	21	15			
18					0	0	15	21	15			
19					0	0	14	19	17			
20					0	3.0	15	20	17			
21					0	6.0	16	20	18			
22					0	6.0	17	20	18			
23					0	5.0	17	22	18			
24					0	6.0	17	23	4.0			
25					0	6.0	17	23	0			
26					0	6.0	17	23	0			
27					0	6.0	18	23	0			
28					0	7.0	19	23	0			
29		-----			0	7.0	22	21	0			
30		-----			0	8.0	21	21	0			
31		-----		-----	0	-----	31	22	-----		-----	
TOTAL					0	66.0	439.0	681	423.0			
MEAN					0	2.20	14.2	22.0	14.1			
MAX					0	8.0	31	26	21			
MIN					0	0	8.0	19	0			
AC-FT					0	131	871	1,350	839			
YEAR 1997	MAX	31	MIN	0	AC-FT	3,190						

# NORTH PLATTE RIVER BASIN

**TRI-STATE CANAL from Wet Spotted Tail Creek, 00144900 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					4.0	22	11	27	15			
2					4.0	27	13	27	16			
3					4.0	38	7.0	23	19			
4					0	27	5.0	21	21			
5					0	25	7.0	24	19			
6					0	25	7.0	27	20			
7					0	25	5.0	22	18			
8					0	35	5.0	21	19			
9					0	33	6.0	21	17			
10					0	32	6.0	45	20			
11					0	38	8.0	45	25			
12					0	31	7.0	34	20			
13					4.0	32	5.0	26	21			
14					5.0	32	4.0	25	21			
15					9.0	35	4.0	26	19			
16					7.0	31	4.0	29	23			
17					8.0	23	3.0	25	20			
18					8.0	19	0	27	20			
19					10	16	5.0	30	29			
20					16	15	7.0	27	27			
21					15	16	8.0	32	28			
22					23	13	12	35	29			
23					22	9.0	8.0	45	33			
24					19	8.0	13	41	27			
25					45	8.0	12	31	28			
26					33	9.0	14	20	15			
27					29	7.0	19	19	20			
28					29	8.0	25	20	20			
29		-----			22	9.0	25	15	20			
30		-----			24	10	25	14	18			
31		-----		-----	21	-----	43	14	-----		-----	
TOTAL					361.0	658.0	323.0	838	647			
MEAN					11.6	21.9	10.4	27.0	21.6			
MAX					45	38	43	45	33			
MIN					0	7.0	0	14	15			
AC-FT					716	1,310	641	1,660	1,280			
YEAR 1997	MAX	45	MIN	0	AC-FT	5,610						

# NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Tub Springs, 00144800 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	19	37	41			
2					0	0	19	35	42			
3					0	0	22	35	42			
4					0	0	24	36	41			
5					0	0	25	35	42			
6					0	0	25	35	42			
7					0	0	26	33	42			
8					0	0	26	28	43			
9					0	0	25	23	42			
10					0	0	26	20	41			
11					0	0	27	16	41			
12					0	0	27	23	40			
13					0	0	29	41	39			
14					0	0	33	39	40			
15					0	0	33	38	39			
16					0	0	32	36	38			
17					0	0	33	37	37			
18					0	0	33	38	37			
19					0	0	35	39	38			
20					0	0	35	37	36			
21					0	12	33	40	36			
22					0	11	35	42	36			
23					0	10	37	41	36			
24					0	9.0	38	39	11			
25					0	8.0	37	37	0			
26					0	9.0	36	35	0			
27					0	14	35	35	0			
28					0	18	35	37	0			
29		-----			0	18	35	37	0			
30		-----			0	18	34	38	0			
31		-----		-----	0	-----	41	40	-----		-----	
TOTAL					0	127.0	950	1,082	922			
MEAN					0	4.23	30.6	34.9	30.7			
MAX					0	18	41	42	43			
MIN					0	0	19	16	0			
AC-FT					0	252	1,880	2,150	1,830			
YEAR 1997	MAX	43	MIN	0	AC-FT	6,110						

# NORTH PLATTE RIVER BASIN

**NORTHPORT CANAL from North Platte River and Drains via Tri-State Canal, 00115100 - 1997**

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.--Values provided by the U.S. Bureau of Reclamation. 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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	0	129	150	271	255	2.8		
2				0	0	154	148	263	258	1.6		
3				0	0	6.2	169	252	255	0		
4				0	0	0	223	262	256	0		
5				0	0	0	248	260	259	0		
6				0	0	0	251	257	257	0		
7				0	0	0	254	253	253	0		
8				0	117	0	253	263	252	0		
9				0	149	0	247	254	253	0		
10				0	130	0	260	258	238	0		
11				0	136	0	257	259	211	0		
12				0	139	0	255	260	197	0		
13				0	135	0	252	259	204	0		
14				0	138	0	257	260	179	0		
15				0	130	0	254	260	158	0		
16				0	127	0	256	255	156	0		
17				0	128	0	259	259	152	0		
18				0	126	0	260	257	151	0		
19				0	124	0	268	255	154	0		
20				0	126	0	249	247	144	0		
21				0	129	96	258	242	126	0		
22				0	127	119	253	245	117	0		
23				0	125	89	249	241	109	0		
24				0	124	99	254	243	101	0		
25				0	134	95	251	253	62	0		
26				0	128	99	254	254	20	0		
27				0	128	104	255	253	4.5	0		
28				0	131	101	258	261	4.1	0		
29		-----		0	130	104	257	256	3.7	0		
30		-----		0	125	146	255	256	3.2	0		
31		-----		0	133	-----	253	256	-----	0	-----	
TOTAL				0	3,119	1,341.2	7,567	7,924	4,792.5	4.4		
MEAN				0	101	44.7	244	256	160	.14		
MAX				0	149	154	268	271	259	2.8		
MIN				0	0	0	148	241	3.2	0		
AC-FT				0	6,190	2,660	15,010	15,720	9,510	8.7		
YEAR 1997	MAX	271	MIN	0	AC-FT	49,090						

# NORTH PLATTE RIVER BASIN

## HORSE CREEK near Lyman, 06677500 - 1997

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.

E indicates estimated daily discharge. Estimated daily discharges January 1-19, 25-29, April 4-15, 28-30, August 4-7, October 16-21, November 14-16. Records good, except estimated records 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 1,490 cubic feet per second July 31, gage height 8.74 feet; minimum daily discharge 13 cubic feet per second March 29-30, April 1, 11.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	24E	30	22	13	19	110	141	374	194	113	90	40
2	24E	29	20	14	18	312	131	301	184	99	70	40
3	22E	28	20	15	18	602	177	301	195	94	63	40
4	20E	24	19	15E	17	167	197	300E	236	87	60	37
5	18E	24	18	15E	55	151	165	300E	251	82	59	37
6	16E	26	19	14E	36	147	172	295E	249	78	57	42
7	16E	24	19	14E	51	132	176	290E	240	76	56	37
8	16E	22	18	15E	254	125	163	268	224	76	55	38
9	15E	23	18	15E	273	118	136	268	249	73	55	37
10	15E	26	17	14E	250	113	102	313	243	71	55	35
11	14E	25	17	13E	270	109	83	371	268	70	53	33
12	14E	22	17	16E	297	103	79	382	312	65	53	38
13	14E	24	17	22E	286	95	77	370	305	63	53	40
14	14E	22	18	35E	238	98	79	345	316	62	52E	35
15	16E	25	17	45E	171	95	77	335	321	61	51E	35
16	18E	24	19	47	141	92	75	335	320	60E	50E	34
17	24E	24	19	36	128	88	71	344	310	58E	50	35
18	29E	24	18	33	117	86	70	329	336	56E	50	35
19	28E	23	17	32	107	243	112	310	366	54E	49	35
20	25	22	17	28	160	419	138	275	374	52E	50	33
21	28	22	16	25	154	402	104	238	379	50E	49	35
22	26	20	16	22	188	420	102	170	406	50	47	33
23	25	21	16	22	225	313	105	154	434	49	45	33
24	24	20	15	22	218	582	113	146	443	56	46	32
25	22E	22	15	21	509	356	108	146	439	45	45	31
26	23E	23	15	21	508	315	105	153	387	60	44	32
27	23E	22	14	20	441	284	101	147	266	65	44	32
28	24E	22	14	19E	345	261	101	144	169	75	43	31
29	26E	-----	13	20E	280	237	129	148	130	81	42	35
30	25	-----	13	22E	212	190	126	178	112	93	40	37
31	28	-----	15	-----	141	-----	826	210	-----	113	-----	33
TOTAL	656	663	528	665	6,127	6,765	4,341	8,240	8,658	2,187	1,576	1,100
MEAN	21.2	23.7	17.0	22.2	198	226	140	266	289	70.5	52.5	35.5
MAX	29	30	22	47	509	602	826	382	443	113	90	42
MIN	14	20	13	13	17	86	70	144	112	45	40	31
AC-FT	1,300	1,320	1,050	1,320	12,150	13,420	8,610	16,340	17,170	4,340	3,130	2,180
YEAR 1997	TOTAL	41,506	MEAN	114	MAX	826	MIN	13	AC-FT	82,330		

# NORTH PLATTE RIVER BASIN

**SHEEP CREEK near Morrill, 06678000 - 1997**

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.  
E indicates estimated daily discharge. Records good except estimated records 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 173 cubic feet per second September 23, gage height 3.13 feet; minimum daily discharge 7.5 cubic feet per second July 2.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	79	68	71	61	58	64	7.9	9.7	8.5	112	105	77
2	78	68	71	60	58	68	7.5	9.8	8.3	110	93	77
3	79	67	71	59	57	81	7.8	10	8.5	109	83	77
4	79	66	70	62	57	69	8.0	9.8	8.3	110	82	76
5	77	66	69	71	58	67	8.2	9.7	7.9	109	82	76
6	76	67	68	74	57	67	8.5	9.7	8.5	108	83	77
7	76	67	68	71	57	64	8.7	9.7	8.3	109	83	78
8	76	67	68	70	57	63	8.9	9.8	8.2	113	82	78
9	77	67	67	69	57	64	9.3	9.5	8.2	111	84	79
10	76	67	66	69	57	65	9.5	9.5	8.3	109	83	79
11	75	68	66	67	57	65	9.5	9.1	8.3	111	83	79
12	74	69	66	67	57	68	9.5	9.1	8.2	119	83	80
13	74	70	65	67	55	65	9.3	8.9	8.3	122	83	81
14	75	70	64	69	53	64	9.3	8.8	8.7	119	82	81
15	74	70	65	68	54	64	9.6	8.9	8.8	111	82	82
16	73	71	65	66	52	67	9.4	8.7	8.7	108	83	81
17	73	72	64	64	49	61	9.5	8.4	8.8	111	85	82
18	74	72	64	63	49	60	9.2	8.2	8.8	108	86	82
19	73	72	64	62	51	60	9.1	8.0	9.0	101	85	81
20	73	71	64	60	53	33	9.2	8.0	9.0	100	85	81
21	72	71	64	61	54	9.4	9.1	8.0	9.3	99	83	81
22	71	71	64	60	56	9.3	9.2	8.2	9.3	97	82	81
23	70	71	62	60	59	8.8	9.5	7.9	86	95	81	81
24	70	71	61	59	58	8.4	9.3	8.1	125	103	81	81
25	69	71	60	59	66	8.1	9.7	8.4	121	97	81	80
26	69	71	60	59	64	8.2	9.6	8.5	118	95	81	81
27	68	71	60	59	63	8.3	9.4	8.8	117	95	81	82
28	68	71	60	58	64	8.1	9.6	8.6	115	95	79	82
29	68	-----	59	60	64	8.1	9.9	8.1	115	92	78	83
30	69	-----	59	60	65	8.0	10	8.4	114	89	77	83
31	68	-----	60	-----	63	-----	10	8.3	-----	92	-----	83
TOTAL	2,273	1,943	2,005	1,914	1,779	1,363.7	283.2	274.6	1,099.2	3,259	2,501	2,482
MEAN	73.3	69.4	64.7	63.8	57.4	45.5	9.14	8.86	36.6	105	83.4	80.1
MAX	79	72	71	74	66	81	10	10	125	122	105	83
MIN	68	66	59	58	49	8.0	7.5	7.9	7.9	89	77	76
AC-FT	4,510	3,850	3,980	3,800	3,530	2,700	562	545	2,180	6,460	4,960	4,920
YEAR 1997	TOTAL	21,176.7	MEAN	58.0	MAX	125	MIN	7.5	AC-FT	42,000		



## NORTH PLATTE RIVER BASIN

## ENTERPRISE CANAL from North Platte River, 00040000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	0	60	74	55	80	57		
2				0	0	64	70	50	78	44		
3				0	0	75	72	46	84	22		
4				0	0	69	82	71	101	0		
5				0	0	63	81	90	97	0		
6				0	0	60	90	89	99	0		
7				0	0	62	84	84	95	0		
8				0	38	63	86	79	89	0		
9				0	57	65	97	75	90	0		
10				0	64	66	119	76	97	0		
11				0	74	66	114	85	98	0		
12				0	78	68	119	89	88	0		
13				0	79	68	120	86	80	0		
14				0	80	69	114	85	76	0		
15				0	77	70	107	83	74	0		
16				0	72	73	101	78	73	0		
17				0	66	74	102	72	76	0		
18				0	61	73	96	72	77	0		
19				0	61	72	105	70	81	0		
20				0	60	76	105	67	84	0		
21				0	59	77	90	64	86	0		
22				0	61	76	93	75	89	0		
23				0	69	71	91	82	103	0		
24				0	71	68	94	85	95	0		
25				0	67	60	87	86	81	0		
26				0	68	54	96	81	77	0		
27				0	63	70	114	77	69	0		
28				0	61	74	96	75	64	0		
29		-----		0	58	66	85	73	62	0		
30		-----		0	55	71	62	76	58	0		
31		-----		-----	55	-----	75	82	-----	0	-----	
TOTAL				0	1,554	2,043	2,921	2,358	2,501	123		
MEAN				0	50.1	68.1	94.2	76.1	83.4	3.97		
MAX				0	80	77	120	90	103	57		
MIN				0	0	54	62	46	58	0		
AC-FT				0	3,080	4,050	5,790	4,680	4,960	244		
YEAR 1997	MAX	120	MIN	0	AC-FT	22,810						

# NORTH PLATTE RIVER BASIN

**DRY SPOTTED TAIL CREEK at Mitchell, 06679000 - 1997**

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.

E indicates estimated daily discharge. Estimated records April 4-6, June 7-9. Records good except estimated records are poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 297 cubic feet per second July 3, gage height 2.70 feet; minimum daily discharge 11 cubic feet per second January 28.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18	14	13	14	18	33	57	120	67	53	45	38
2	17	15	12	15	17	42	58	123	64	77	43	38
3	16	15	13	15	17	85	53	104	62	69	44	38
4	15	16	14	15E	17	48	54	99	84	53	43	37
5	15	16	14	14E	18	37	55	98	79	50	43	36
6	14	17	14	20E	19	29	62	99	77	49	43	36
7	14	16	14	19	26	30E	62	92	83	48	42	35
8	14	16	14	18	46	30E	61	82	87	48	42	36
9	14	16	14	19	31	31E	60	76	87	44	42	36
10	14	15	15	18	31	32	64	71	87	37	42	35
11	14	15	15	17	33	32	66	70	85	37	41	35
12	14	15	15	17	35	32	68	75	78	35	41	34
13	12	15	15	17	38	31	75	72	74	33	40	35
14	14	15	14	18	37	31	69	75	69	32	38	35
15	14	14	15	18	35	31	71	72	69	32	36	35
16	14	14	15	18	36	31	72	67	67	30	34	34
17	15	14	15	18	35	30	68	74	66	31	40	34
18	15	14	15	18	35	29	66	74	69	30	39	34
19	15	14	14	18	38	28	70	72	79	30	40	33
20	14	14	15	19	37	26	78	73	83	31	40	33
21	14	14	15	18	39	22	76	70	86	30	40	33
22	14	14	15	18	46	22	80	73	81	30	40	33
23	14	13	15	18	60	21	76	74	77	29	39	32
24	14	13	15	20	59	20	77	80	88	50	39	32
25	14	13	15	21	78	22	76	73	95	45	39	32
26	13	13	13	21	75	43	80	79	92	35	39	32
27	12	13	13	20	58	43	78	57	89	49	38	30
28	11	13	15	16	44	48	67	60	91	50	39	30
29	12	-----	15	18	48	59	58	59	88	49	39	33
30	12	-----	14	18	35	58	58	62	65	47	38	31
31	13	-----	15	-----	31	-----	167	67	-----	47	-----	30
TOTAL	435	406	445	533	1,172	1,056	2,182	2,442	2,368	1,310	1,208	1,055
MEAN	14.0	14.5	14.4	17.8	37.8	35.2	70.4	78.8	78.9	42.3	40.3	34.0
MAX	18	17	15	21	78	85	167	123	95	77	45	38
MIN	11	13	12	14	17	20	53	57	62	29	34	30
AC-FT	863	805	883	1,060	2,320	2,090	4,330	4,840	4,700	2,600	2,400	2,090
YEAR 1997	TOTAL	14,612	MEAN	40.0	MAX	167	MIN	11	AC-FT	28,980		

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at Mitchell, 06679500 - 1997

LOCATION.--N1/4NE1/4 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

E indicates estimated daily discharge. Estimated records September 30-October 3. Records good except estimated records 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 5,330 cubic feet per second June 16, gage height 7.66 feet; minimum daily discharge 357 cubic feet per second January 14.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	492	422	395	2,420	4,240	2,860	1,960	2,360	424	1,120E	763	579
2	494	417	397	2,380	4,150	3,210	1,620	1,670	406	1,020E	721	577
3	499	413	394	2,360	3,860	4,860	1,430	1,320	433	900E	699	572
4	499	405	390	2,420	3,450	3,760	1,310	1,140	619	843	692	567
5	474	406	390	2,560	2,780	3,590	1,120	962	567	793	684	561
6	461	411	389	2,460	2,210	3,680	1,050	966	578	756	674	552
7	458	405	386	2,520	2,010	4,110	986	854	578	734	672	553
8	463	399	386	2,570	1,900	4,300	908	753	559	726	667	555
9	463	397	383	2,630	1,620	4,320	806	622	561	706	661	557
10	434	399	381	2,670	1,830	4,400	746	604	605	689	657	549
11	414	404	377	2,670	2,110	5,000	710	773	605	678	650	534
12	382	400	377	2,650	2,150	5,150	716	874	588	655	646	530
13	360	402	381	2,670	2,140	5,150	762	874	581	648	642	534
14	357	400	409	2,720	2,230	5,210	756	812	550	756	621	536
15	395	404	455	2,730	2,100	5,250	721	792	525	757	614	531
16	411	403	489	2,750	1,920	5,260	691	710	505	750	615	530
17	418	401	506	2,760	1,780	5,050	681	635	533	743	619	530
18	448	401	513	3,000	1,680	4,610	674	608	535	735	616	531
19	470	400	520	3,110	1,660	4,290	699	554	555	724	615	527
20	471	402	527	3,140	1,660	4,560	940	496	605	717	614	522
21	459	398	527	3,150	1,670	4,590	951	459	618	709	609	519
22	450	393	529	3,200	1,820	4,630	900	431	638	702	605	519
23	441	393	565	3,510	2,030	4,050	870	403	786	697	602	511
24	431	393	614	3,620	2,090	3,850	892	419	1,000	746	601	505
25	408	394	640	3,910	3,390	3,300	850	423	1,230	741	598	506
26	361	400	680	4,110	3,560	3,010	916	393	1,350	735	597	505
27	385	398	970	4,190	3,250	2,840	1,140	386	1,250	741	596	505
28	421	396	1,360	4,210	3,020	2,830	1,210	384	1,150	752	590	492
29	429	-----	1,690	4,290	2,690	2,560	1,420	385	1,110	759	584	500
30	422	-----	2,030	4,300	2,420	2,260	1,350	394	1,120E	753	581	508
31	421	-----	2,340	-----	2,390	-----	2,800	414	-----	786	-----	503
TOTAL	13,491	11,256	20,390	91,680	75,810	122,540	32,585	22,870	21,164	23,571	19,105	16,500
MEAN	435	402	658	3,056	2,445	4,085	1,051	738	705	760	637	532
MAX	499	422	2,340	4,300	4,240	5,260	2,800	2,360	1,350	1,120	763	579
MIN	357	393	377	2,360	1,620	2,260	674	384	406	648	581	492
AC-FT	26,760	22,330	40,440	181,800	150,400	243,100	64,630	45,360	41,980	46,750	37,890	32,730
YEAR 1997	TOTAL	470,962	MEAN	1,290	MAX	5,260	MIN	357	AC-FT	934,200		

# NORTH PLATTE RIVER BASIN

**TUB SPRINGS near Scottsbluff, 06680000 - 1997**

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.

E indicates estimated daily discharge. Estimated records January 19-22, April 4. Records good, except estimated records fair.

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 246 cubic feet per second May 22, gage height 1.99 feet; minimum daily discharge 19 cubic feet per second March 29-31, April 1, 3-5.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33	29	24	19	22	65	26	68	41	95	52	40
2	33	29	24	20	22	102	30	79	40	59	50	39
3	33	29	25	19	22	77	24	76	41	56	46	39
4	33	29	25	19E	22	71	26	61	53	56	45	39
5	32	29	25	19	21	66	25	82	59	56	49	38
6	32	29	25	25	21	57	29	105	67	56	52	38
7	32	29	25	28	21	59	29	101	81	56	50	38
8	32	28	25	26	22	59	29	83	87	57	49	38
9	32	27	24	24	31	55	32	70	83	59	50	38
10	31	27	23	24	55	63	34	84	82	59	49	38
11	31	27	24	25	63	66	35	117	83	59	48	38
12	30	27	24	25	62	67	35	110	84	57	48	37
13	30	27	23	26	62	66	37	85	80	54	48	37
14	30	27	23	28	65	65	39	81	79	58	46	37
15	30	27	24	27	63	63	33	80	75	58	45	37
16	30	27	24	26	67	63	34	75	75	59	46	35
17	29	27	24	25	63	60	32	64	73	59	46	35
18	31	27	23	25	57	54	33	57	73	59	46	35
19	30E	26	23	24	57	52	36	52	87	56	47	35
20	30E	25	22	24	56	46	41	47	91	56	46	35
21	30E	25	22	24	56	38	36	38	88	55	45	35
22	30E	25	22	24	81	37	33	37	89	55	44	35
23	30	26	21	24	65	37	31	41	90	55	43	35
24	30	25	21	24	81	37	31	43	119	59	43	35
25	29	25	21	24	75	33	34	45	143	57	42	35
26	29	25	21	24	71	27	33	44	142	56	40	35
27	29	25	20	23	69	27	34	41	126	56	40	32
28	29	25	20	23	69	32	36	40	117	56	40	29
29	29	-----	19	25	69	34	41	39	111	56	40	29
30	29	-----	19	24	69	31	38	40	121	55	40	29
31	29	-----	19	-----	66	-----	111	41	-----	54	-----	29
TOTAL	947	753	704	717	1,645	1,609	1,097	2,026	2,580	1,798	1,375	1,104
MEAN	30.5	26.9	22.7	23.9	53.1	53.6	35.4	65.4	86.0	58.0	45.8	35.6
MAX	33	29	25	28	81	102	111	117	143	95	52	40
MIN	29	25	19	19	21	27	24	37	40	54	40	29
AC-FT	1,880	1,490	1,400	1,420	3,260	3,190	2,180	4,020	5,120	3,570	2,730	2,190
YEAR 1997	TOTAL	16,355	MEAN	44.8	MAX	143	MIN	19	AC-FT	32,440		

## NORTH PLATTE RIVER BASIN

## WINTERS CREEK CANAL from North Platte River, 00148000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	10	19	24	21	1.0		
2					0	11	18	22	17	0		
3					0	13	18	21	13	0		
4					0	11	19	20	15	0		
5					0	11	21	22	16	0		
6					0	11	21	25	17	0		
7					0	12	27	25	16	0		
8					0	12	34	23	16	0		
9					0	11	35	22	17	0		
10					0	12	34	21	14	0		
11					0	12	33	23	13	0		
12					5.5	12	33	22	13	0		
13					9.4	13	34	20	13	0		
14					9.7	13	34	19	13	0		
15					14	14	34	19	13	0		
16					18	14	33	19	14	0		
17					19	14	32	18	14	0		
18					20	13	32	18	15	0		
19					19	13	33	17	21	0		
20					19	15	35	19	20	0		
21					19	15	34	20	20	0		
22					19	16	32	20	20	0		
23					21	16	31	20	20	0		
24					21	16	30	20	21	0		
25					25	15	29	21	21	0		
26					17	14	29	21	22	0		
27					12	13	30	21	10	0		
28					11	13	30	20	2.1	0		
29					11	13	28	20	2.1	0		
30		-----			10	15	26	20	2.0	0		
31		-----		-----	9.6	-----	25	20	-----	0	-----	
TOTAL					309.2	393	903	642	451.2	1.0		
MEAN					9.97	13.1	29.1	20.7	15.0	.032		
MAX					25	16	35	25	22	1.0		
MIN					0	10	18	17	2.0	0		
AC-FT					613	780	1,790	1,270	895	2.0		
YEAR 1997	MAX	35	MIN	0	AC-FT	5,350						

# NORTH PLATTE RIVER BASIN

**WINTERS CREEK CANAL from Winters Creek, 00149000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	15	1.5	36	4.3		
2					0	0	21	1.4	32	0		
3					0	0	40	1.4	30	0		
4					0	0	43	26	31	0		
5					0	0	43	34	31	0		
6					0	0	43	22	31	0		
7					0	0	39	22	33	0		
8					0	0	39	33	32	0		
9					0	0	42	45	28	0		
10					0	0	42	39	25	0		
11					0	0	47	43	23	0		
12					0	0	50	32	22	0		
13					6.2	0	49	30	23	0		
14					11	0	48	29	23	0		
15					12	0	47	26	23	0		
16					12	0	47	27	22	0		
17					14	0	48	27	23	0		
18					17	0	51	34	27	0		
19					21	0	51	38	24	0		
20					26	3.0	48	37	25	0		
21					25	5.3	44	37	26	0		
22					23	4.9	51	40	26	0		
23					17	4.4	51	44	26	0		
24					21	2.0	50	45	26	0		
25					27	0	51	46	23	0		
26					17	0	50	44	16	0		
27					17	3.0	51	41	11	0		
28					16	5.4	52	39	12	0		
29		-----			12	8.8	53	36	10	0		
30		-----			0	12	53	32	8.6	0		
31		-----		-----	0	-----	2.4	38	-----	0	-----	
TOTAL					294.2	48.8	1,361.4	990.3	728.6	4.3		
MEAN					9.49	1.63	43.9	31.9	24.3	.14		
MAX					27	12	53	46	36	4.3		
MIN					0	0	2.4	1.4	8.6	0		
AC-FT					584	97	2,700	1,960	1,450	8.5		
YEAR 1997	MAX	53	MIN	0	AC-FT	6,800						

# NORTH PLATTE RIVER BASIN

CENTRAL CANAL from North Platte River, 00022000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	0	16	28	29	30	6.8		
2				0	0	20	21	28	25	4.5		
3				0	0	16	25	34	27	3.3		
4				0	0	8.4	33	31	29	2.7		
5				0	0	8.2	26	28	24	2.1		
6				0	0	7.7	28	25	25	1.3		
7				0	0	10	29	30	26	.38		
8				0	0	11	31	31	26	0		
9				0	0	10	35	30	26	0		
10				0	0	9.9	32	29	24	0		
11				0	0	10	33	24	21	0		
12				0	3.4	10	34	24	19	0		
13				0	4.3	10	32	25	18	0		
14				0	4.9	9.3	32	23	17	0		
15				0	17	8.8	33	26	16	0		
16				0	21	9.2	34	26	17	0		
17				0	23	9.4	35	24	19	0		
18				0	23	9.8	34	24	19	0		
19				0	23	13	32	26	17	0		
20				0	24	16	28	29	17	0		
21				0	24	18	30	29	15	0		
22				0	26	18	32	29	12	0		
23				0	15	16	32	33	12	0		
24				0	18	15	33	31	14	0		
25				0	25	11	32	36	12	0		
26				0	21	12	33	33	14	0		
27				0	16	14	37	31	13	0		
28				0	17	19	32	30	12	0		
29		-----		0	20	25	31	30	11	0		
30		-----		0	15	27	31	31	10	0		
31		-----		-----	12	-----	30	32	-----	0	-----	
TOTAL				0	352.6	397.7	968	891	567	21.08		
MEAN				0	11.4	13.3	31.2	28.7	18.9	.68		
MAX				0	26	27	37	36	30	6.8		
MIN				0	0	7.7	21	23	10	0		
AC-FT				0	699	789	1,920	1,770	1,120	42		
YEAR 1997	MAX	37	MIN	0	AC-FT	6,340						

# NORTH PLATTE RIVER BASIN

**WINTERS CREEK near Scottsbluff, 06681000 - 1997**

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.  
E indicated estimated daily discharge. Estimated records April 4-6, 9-15. Records good, except estimated records fair.

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 432 cubic feet per second July 31, gage height 4.58 feet; minimum daily discharge 10 cubic feet per second July 10.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	39	35	33	27	34	128	53	186	132	73	60	48
2	39	34	33	28	31	104	52	229	131	69	59	47
3	40	34	32	29	28	225	23	214	142	68	58	45
4	40	34	31	29E	29	99	20	162	156	67	57	45
5	39	34	30	28E	29	77	19	132	145	66	55	44
6	39	34	31	36E	56	72	18	138	140	65	55	44
7	41	34	30	36	36	75	18	110	133	65	55	43
8	42	34	31	33	32	78	18	68	95	65	58	43
9	41	33	33	33E	32	81	15	59	76	65	57	44
10	42	35	31	34E	52	83	10	75	84	64	57	44
11	40	35	31	34E	49	83	11	101	83	66	55	43
12	39	34	34	32E	49	68	16	114	83	68	55	44
13	40	35	34	30E	46	67	20	120	83	66	54	45
14	40	34	29	28E	42	66	16	108	82	64	53	45
15	41	35	29	34E	40	64	16	78	82	63	53	44
16	39	34	29	40	43	62	15	70	76	63	52	43
17	39	32	28	39	38	61	17	69	79	63	51	44
18	38	32	27	36	34	60	20	64	91	62	50	42
19	37	33	27	36	34	67	25	50	141	62	50	42
20	36	33	28	37	32	58	74	45	174	62	50	42
21	37	32	28	34	31	53	46	49	177	61	48	43
22	37	33	28	32	50	51	35	45	176	66	48	42
23	36	33	28	32	117	49	33	56	176	66	47	42
24	36	32	28	32	103	102	31	68	176	66	47	41
25	35	33	28	33	132	116	32	79	165	62	47	41
26	36	35	28	33	99	70	32	75	139	61	48	41
27	36	34	27	34	92	52	36	85	111	60	48	41
28	36	34	27	34	92	50	41	84	89	60	48	41
29	35	-----	28	37	140	48	50	97	90	59	48	41
30	35	-----	28	37	179	38	53	104	86	58	48	41
31	35	-----	27	-----	187	-----	258	120	-----	60	-----	41
TOTAL	1,185	944	916	997	1,988	2,307	1,123	3,054	3,593	1,985	1,571	1,336
MEAN	38.2	33.7	29.5	33.2	64.1	76.9	36.2	98.5	120	64.0	52.4	43.1
MAX	42	35	34	40	187	225	258	229	177	73	60	48
MIN	35	32	27	27	28	38	10	45	76	58	47	41
AC-FT	2,350	1,870	1,820	1,980	3,940	4,580	2,230	6,060	7,130	3,940	3,120	2,650
YEAR 1997	TOTAL	20,999	MEAN	57.5	MAX	258	MIN	10	AC-FT	41,650		



## NORTH PLATTE RIVER BASIN

MINATARE CANAL from North Platte River, 00099000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	23	8.6	48	69	61	22		
2				0	14	25	56	69	58	18		
3				0	9.7	23	58	69	60	17		
4				0	12	.71	59	69	65	14		
5				0	32	0	61	72	60	13		
6				0	45	0	63	71	50	14		
7				0	50	0	72	68	42	15		
8				0	50	0	77	71	43	14		
9				0	48	0	67	76	42	13		
10				0	52	0	65	69	36	13		
11				0	56	0	69	58	33	12		
12				0	56	0	93	53	33	12		
13				0	66	0	93	51	32	13		
14				0	69	0	93	50	30	14		
15				0	67	0	102	49	29	15		
16				0	65	0	110	50	28	15		
17				0	65	0	112	50	34	16		
18				0	65	1.6	114	57	41	9.4		
19				0	66	16	116	64	39	0		
20				0	68	26	100	69	28	0		
21				0	72	26	75	71	21	0		
22				0	74	26	77	73	23	0		
23				0	74	24	83	72	24	0		
24				0	72	26	85	74	27	0		
25				0	67	26	84	75	28	0		
26				0	67	33	82	70	28	0		
27				0	60	41	86	65	28	0		
28				0	57	40	88	65	28	0		
29		-----		0	28	40	80	66	28	0		
30		-----		0	7.2	40	82	64	28	0		
31		-----		-----	4.7	-----	71	61	-----	0	-----	
TOTAL				0	1,561.6	422.91	2,521	2,010	1,107	259.4		
MEAN				0	50.4	14.1	81.3	64.8	36.9	8.37		
MAX				0	74	41	116	76	65	22		
MIN				0	4.7	0	48	49	21	0		
AC-FT				0	3,100	839	5,000	3,990	2,200	515		
YEAR 1997	MAX	116	MIN	0	AC-FT	15,630						

# NORTH PLATTE RIVER BASIN

**GERING CREEK near Gering, 06681500 - 1997**

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.  
E indicated estimated daily discharge. Estimated records January 10, March 14-18, April 4-7. Records good except estimated records fair.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 4,680 cubic feet per second June 2, gage height 15.43 feet; minimum daily discharge 18 cubic feet per second January 13.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	24	21	19	25	25	40	156	167	164	53	31	25
2	24	20	19	26	24	953	137	193	171	52	30	25
3	24	21	19	26	23	391	114	187	173	51	29	25
4	24	20	19	26E	23	66	121	172	142	50	30	26
5	22	20	20	25E	23	44	128	191	147	48	28	25
6	22	21	20	24E	23	51	120	164	157	47	28	25
7	22	20	21	25E	22	41	100	137	155	47	28	26
8	23	19	21	25	27	40	92	132	159	47	29	25
9	23	20	21	22	141	34	84	126	166	46	31	24
10	21E	20	21	21	154	37	82	179	166	46	29	24
11	19	20	22	20	147	34	93	212	183	46	29	23
12	19	20	22	19	118	34	89	200	186	64	29	23
13	18	20	23	20	96	30	88	195	205	62	29	24
14	19	20	23E	24	90	29	96	187	205	49	29	25
15	21	20	23E	26	89	29	89	179	220	34	28	25
16	19	20	22E	28	106	25	88	156	234	31	29	25
17	20	20	22E	28	107	33	82	157	218	31	29	25
18	22	20	22E	27	128	51	86	151	213	31	30	25
19	22	20	22	27	129	54	112	147	227	30	29	25
20	22	21	22	26	128	64	146	139	226	31	29	25
21	22	21	22	26	121	88	131	128	238	31	29	24
22	21	20	21	25	153	100	128	117	238	30	27	24
23	21	20	23	24	160	132	121	115	231	29	27	24
24	20	20	26	24	260	228	118	112	229	36	27	24
25	19	20	25	24	451	191	111	122	168	30	27	25
26	19	20	25	24	241	174	105	138	95	30	27	24
27	19	20	25	25	169	174	103	145	65	32	27	25
28	19	20	24	25	103	180	102	146	58	32	26	24
29	21	-----	25	27	68	173	110	158	56	32	26	25
30	21	-----	25	27	38	151	131	180	54	35	26	25
31	21	-----	25	-----	35	-----	235	173	-----	33	-----	25
TOTAL	653	564	689	741	3,422	3,671	3,498	4,905	5,149	1,246	852	764
MEAN	21.1	20.1	22.2	24.7	110	122	113	158	172	40.2	28.4	24.6
MAX	24	21	26	28	451	953	235	212	238	64	31	26
MIN	18	19	19	19	22	25	82	112	54	29	26	23
AC-FT	1,300	1,120	1,370	1,470	6,790	7,280	6,940	9,730	10,210	2,470	1,690	1,520
YEAR 1997	TOTAL	26,154	MEAN	71.7	MAX	953	MIN	18	AC-FT	51,880		

# NORTH PLATTE RIVER BASIN

**CASTLE ROCK - STEAMBOAT CANAL from North Platte River, 00021000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	9.0	27	62	70	79	57		
2				0	12	34	64	72	78	57		
3				0	8.6	68	80	70	77	57		
4				0	6.5	25	92	69	81	56		
5				0	9.3	4.1	101	73	83	55		
6				0	14	3.4	100	68	83	54		
7				0	35	3.1	99	75	79	53		
8				0	56	5.4	98	81	78	52		
9				0	53	5.7	96	81	76	52		
10				0	56	5.8	94	72	80	49		
11				0	61	23	93	61	83	39		
12				0	60	41	92	58	80	35		
13				0	57	46	93	58	79	28		
14				0	64	49	93	57	78	14		
15				0	76	52	89	56	78	0		
16				0	76	52	88	56	75	0		
17				0	74	57	89	56	75	0		
18				0	73	45	87	54	75	0		
19				0	74	15	89	62	78	0		
20				0	87	19	97	82	82	0		
21				1.2	80	41	93	86	76	0		
22				1.9	74	48	83	86	66	0		
23				1.9	66	41	83	86	67	0		
24				1.9	62	41	88	86	69	0		
25				6.7	49	54	88	85	71	0		
26				0	38	59	88	84	72	0		
27				0	32	62	91	85	71	0		
28				5.8	35	59	92	84	68	0		
29		-----		7.9	36	54	91	82	56	0		
30		-----		6.3	32	60	91	82	57	0		
31		-----		-----	27	-----	79	81	-----	0	-----	
TOTAL				33.6	1,492.4	1,099.5	2,763	2,258	2,250	658		
MEAN				1.12	48.1	36.7	89.1	72.8	75.0	21.2		
MAX				7.9	87	68	101	86	83	57		
MIN				0	6.5	3.1	62	54	56	0		
AC-FT				67	2,960	2,180	5,480	4,480	4,460	1,310		
YEAR 1997	MAX	101	MIN	0	AC-FT	20,930						

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER near Minatare, 06682000 - 1997

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.  
E indicates estimated daily discharge. Estimated records January 10-20, 25-26, November 15, December 28. Records are good, except estimated records fair.

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 7,340 cubic feet per second June 3, combined channel discharge; minimum daily discharge 557 cubic feet per second March 14, combined channel discharge.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	639	600	597	2,330	4,040	3,130	2,500	3,170	726	1,360	1,090	876
2	638	609	596	2,380	4,050	3,700	2,220	2,560	718	1,360	1,050	873
3	646	607	596	2,460	3,890	6,080	1,870	2,080	732	1,340	1,020	866
4	637	612	586	2,530	3,680	5,190	1,750	1,720	884	1,310	1,010	857
5	610	627	582	2,690	3,300	4,370	1,520	1,530	926	1,270	997	844
6	598	637	578	2,600	2,630	4,170	1,380	1,530	926	1,180	995	836
7	596	640	582	2,670	2,270	4,400	1,280	1,420	951	1,130	994	835
8	604	620	585	2,710	2,170	4,740	1,180	1,190	934	1,120	985	844
9	605	621	576	2,720	1,950	4,820	1,080	1,010	893	1,110	978	849
10	560E	619	577	2,750	2,110	4,930	999	1,030	903	1,110	970	839
11	580E	616	572	2,740	2,340	5,360	944	1,340	958	1,120	958	815
12	580E	605	568	2,750	2,480	5,660	907	1,500	966	1,070	946	810
13	600E	604	566	2,800	2,520	5,740	887	1,510	971	1,050	939	808
14	600E	598	557	2,870	2,520	5,890	851	1,460	968	1,060	914	815
15	600E	597	599	2,910	2,460	5,840	825	1,370	946	1,060	900E	817
16	600E	606	641	2,890	2,300	5,740	794	1,230	930	1,050	915	812
17	600E	605	667	2,900	2,160	5,730	759	1,120	884	1,050	906	806
18	600E	607	674	3,050	2,030	5,440	778	1,090	885	1,050	900	805
19	600E	616	688	3,180	1,960	4,970	788	957	977	1,050	904	799
20	620E	619	690	3,200	1,970	4,870	1,080	842	1,100	1,050	898	794
21	645	617	687	3,180	2,000	5,040	1,240	780	1,140	1,050	899	792
22	645	610	681	3,170	2,070	5,110	1,160	718	1,210	1,040	890	782
23	642	618	683	3,320	2,560	4,900	1,120	665	1,360	1,030	879	779
24	646	617	722	3,460	2,490	4,610	1,080	667	1,460	1,090	885	769
25	640E	619	747	3,560	3,720	4,250	1,060	674	1,570	1,080	879	761
26	640E	623	774	3,750	4,310	3,750	1,020	672	1,700	1,060	877	756
27	633	616	890	3,880	4,050	3,420	1,240	673	1,610	1,060	884	751
28	603	607	1,180	3,880	3,630	3,330	1,390	666	1,500	1,070	883	729E
29	611	-----	1,480	3,970	3,530	3,170	1,610	665	1,440	1,080	880	745
30	607	-----	1,770	4,060	3,180	2,810	1,710	680	1,390	1,070	873	749
31	598	-----	2,110	-----	2,860	-----	2,630	703	-----	1,080	-----	748
TOTAL	19,023	17,192	23,801	91,360	87,230	141,160	39,652	37,222	32,558	34,610	28,098	24,961
MEAN	614	614	768	3,045	2,814	4,705	1,279	1,201	1,085	1,116	937	805
MAX	646	640	2,110	4,060	4,310	6,080	2,630	3,170	1,700	1,360	1,090	876
MIN	560	597	557	2,330	1,950	2,810	759	665	718	1,030	873	729
AC-FT	37,730	34,100	47,210	181,200	173,000	280,000	78,650	73,830	64,580	68,650	55,730	49,510
YEAR 1997	TOTAL	576,867	MEAN	1,580	MAX	6,080	MIN	557	AC-FT	1,144,000		

# NORTH PLATTE RIVER BASIN

NINE MILE CANAL from North Platte River, 00106000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	18	.64	8.0	19	20	18		
2				0	18	42	5.4	17	9.6	18		
3				0	19	49	15	11	11	19		
4				0	20	3.5	23	8.3	14	24		
5				0	17	2.7	27	3.5	23	28		
6				0	7.6	2.0	35	4.2	22	27		
7				0	8.1	1.0	38	5.2	20	22		
8				0	8.6	.69	43	8.2	20	11		
9				0	3.7	.46	42	19	22	9.5		
10				0	13	.07	42	20	22	8.6		
11				0	14	0	41	19	23	6.8		
12				0	19	0	35	15	26	10		
13				0	20	0	33	17	25	0		
14				0	18	0	39	17	25	0		
15				0	18	0	39	15	24	0		
16				1.6	22	0	36	14	24	0		
17				2.2	20	0	31	14	24	0		
18				8.8	19	2.2	28	13	21	0		
19				11	20	5.7	27	14	9.0	0		
20				18	23	9.3	29	14	12	0		
21				18	23	8.5	28	4.9	16	0		
22				18	23	8.5	26	7.7	17	0		
23				20	20	8.3	21	16	23	0		
24				21	22	7.4	15	15	24	0		
25				22	12	7.0	25	18	25	0		
26				23	14	13	27	23	25	0		
27				23	3.8	20	27	23	23	0		
28				20	1.5	19	29	22	18	0		
29				22	2.7	16	28	21	14	0		
30		-----		21	2.8	12	24	22	17	0		
31		-----		-----	1.2	-----	22	23	-----	0	-----	
TOTAL				249.6	452.0	238.96	888.4	463.0	598.6	192.00		
MEAN				8.32	14.6	7.97	28.7	14.9	20.0	6.19		
MAX				23	23	49	43	23	26	28		
MIN				0	1.2	0	5.4	3.5	9.0	0		
AC-FT				495	897	474	1,760	918	1,190	381		
YEAR 1997	MAX	49	MIN	0	AC-FT	6,110						

# NORTH PLATTE RIVER BASIN

NINE MILE CANAL from Ninemile Creek, 00106100 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	36	24	50	56	56	48		
2				0	39	37	50	66	52	49		
3				0	39	15	52	52	53	50		
4				0	39	7.4	52	62	54	51		
5				0	41	6.5	52	57	55	53		
6				0	43	9.1	53	56	54	53		
7				0	31	12	51	66	55	49		
8				0	42	8.7	49	64	55	29		
9				0	44	8.2	48	62	56	19		
10				0	43	8.0	49	65	55	18		
11				4.8	39	8.0	50	66	56	15		
12				19	45	7.2	51	65	57	2.4		
13				25	45	6.8	53	63	59	0		
14				26	44	6.6	53	63	59	0		
15				26	45	6.5	52	61	59	0		
16				25	44	9.4	52	59	58	0		
17				25	42	15	53	59	58	0		
18				31	45	15	56	58	60	0		
19				35	45	13	54	55	63	0		
20				35	45	16	44	53	67	0		
21				35	45	26	54	52	70	0		
22				35	43	27	62	52	66	0		
23				35	42	30	62	52	53	0		
24				35	40	29	57	53	54	0		
25				35	29	36	56	53	55	0		
26				36	34	35	54	52	58	0		
27				36	33	51	57	53	44	0		
28				36	32	55	53	54	46	0		
29		-----		36	30	51	51	56	52	0		
30		-----		35	28	48	55	56	50	0		
31		-----		-----	28	-----	64	57	-----	0	-----	
TOTAL				605.8	1,220	627.4	1,649	1,798	1,689	436.4		
MEAN				20.2	39.4	20.9	53.2	58.0	56.3	14.1		
MAX				36	45	55	64	66	70	53		
MIN				0	28	6.5	44	52	44	0		
AC-FT				1,200	2,420	1,240	3,270	3,570	3,350	866		
YEAR 1997	MAX	70	MIN	0	AC-FT	15,920						

## NORTH PLATTE RIVER BASIN

## NINE MILE CREEK near McGrew, 06682500 - 1997

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.

E indicates estimated daily discharge. Estimated records March 15-28, April 5-7. Records good except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1470 cubic feet per second, May 24, 1987, gage height 6.69 feet; minimum daily discharge 12 cubic feet per second May 13-14, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,110 cubic feet per second June 3, gage height 6.71 feet; minimum daily discharge 27 cubic feet per second April 3.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	78	65	61	45	40	136	63	249	182	109	118	93
2	78	64	61	33	39	308	61	312	176	112	116	93
3	77	64	61	27	36	571	71	320	177	111	114	91
4	75	63	60	29	32	226	71	289	179	107	114	89
5	73	64	60	40E	34	179	66	270	186	103	112	87
6	73	65	60	50E	41	158	72	286	183	104	109	87
7	72	64	59	54E	90	143	66	268	187	110	109	87
8	73	64	59	55	119	133	60	257	186	118	106	87
9	73	65	59	54	80	124	57	256	192	123	106	86
10	70	64	60	62	117	112	60	293	194	122	104	86
11	70	64	59	56	135	120	62	344	193	124	102	86
12	68	65	59	44	135	107	68	343	196	136	101	85
13	68	64	60	39	135	104	76	330	198	136	101	84
14	67	64	61	41	135	105	85	331	185	137	97	84
15	68	64	60E	40	121	105	82	293	180	135	97	84
16	66	63	60E	40	84	101	82	255	173	138	99	82
17	66	63	60E	42	61	93	86	249	164	131	99	82
18	67	62	60E	39	59	86	89	244	168	128	100	81
19	67	62	60E	35	58	84	131	209	179	125	99	79
20	66	64	58E	35	60	90	214	183	198	123	99	78
21	66	64	58E	32	58	76	189	167	207	123	99	79
22	65	64	58E	30	73	88	175	154	222	121	97	80
23	63	63	56E	31	97	106	157	160	246	121	97	78
24	64	63	56E	32	97	110	132	163	254	130	98	79
25	62	63	56E	33	277	97	138	166	228	117	98	77
26	63	63	54E	35	223	87	144	169	212	119	96	77
27	63	62	54E	38	217	84	146	167	162	122	96	77
28	63	61	52E	37	202	94	159	162	135	124	95	76
29	64	-----	50	39	194	80	173	166	120	122	94	77
30	65	-----	50	41	165	64	170	172	116	124	94	76
31	65	-----	46	-----	151	-----	399	181	-----	122	-----	75
TOTAL	2,118	1,780	1,787	1,208	3,365	3,971	3,604	7,408	5,578	3,777	3,066	2,562
MEAN	68.3	63.6	57.6	40.3	109	132	116	239	186	122	102	82.6
MAX	78	65	61	62	277	571	399	344	254	138	118	93
MIN	62	61	46	27	32	64	57	154	116	103	94	75
AC-FT	4,200	3,530	3,540	2,400	6,670	7,880	7,150	14,690	11,060	7,490	6,080	5,080
YEAR 1997	TOTAL	40,224	MEAN	110	MAX	571	MIN	27	AC-FT	79,780		

# NORTH PLATTE RIVER BASIN

**SHORT LINE CANAL from North Platte River, 00133000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	0	.78	22	2.2	20	17		
2				0	14	1.1	25	2.0	19	13		
3				0	20	1.8	23	1.9	19	13		
4				0	23	1.3	19	8.0	19	12		
5				0	21	1.2	16	9.7	20	12		
6				0	16	1.2	21	8.8	21	12		
7				0	38	1.1	17	8.5	23	4.5		
8				0	41	.98	13	8.7	24	0		
9				0	50	.98	20	13	24	0		
10				0	63	.98	35	12	24	0		
11				0	68	.98	38	8.4	23	0		
12				0	63	.98	41	8.6	25	0		
13				0	57	1.2	34	8.5	26	0		
14				0	56	1.2	25	8.7	24	0		
15				0	49	1.2	31	8.4	24	0		
16				0	41	8.5	31	7.9	24	0		
17				0	40	13	35	7.9	22	0		
18				0	42	13	34	9.8	25	0		
19				0	42	11	42	13	32	0		
20				0	40	19	29	12	37	0		
21				0	36	27	6.9	15	39	0		
22				0	31	28	20	18	42	0		
23				0	32	27	22	19	38	0		
24				0	25	6.7	25	20	36	0		
25				0	36	14	25	20	22	0		
26				0	4.5	28	26	19	20	0		
27				0	1.7	30	26	19	34	0		
28				0	1.1	32	27	18	31	0		
29		-----		0	.98	32	26	18	26	0		
30		-----		0	.91	26	21	19	24	0		
31		-----		-----	.81	-----	6.3	20	-----	0	-----	
TOTAL				0	954.00	332.18	782.2	373.0	787	83.5		
MEAN				0	30.8	11.1	25.2	12.0	26.2	2.69		
MAX				0	68	32	42	20	42	17		
MIN				0	0	.78	6.3	1.9	19	0		
AC-FT				0	1,890	659	1,550	740	1,560	166		
YEAR 1997	MAX	68	MIN	0	AC-FT	6,570						



## NORTH PLATTE RIVER BASIN

## CHIMNEY ROCK CANAL from North Platte River, 00024000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	5.0	23	38	51	63	31		
2				0	10	30	41	53	63	41		
3				0	6.9	4.5	42	35	64	31		
4				0	6.3	0	44	18	69	29		
5				0	16	0	40	38	62	27		
6				0	19	0	41	47	51	26		
7				0	39	0	49	47	59	25		
8				0	51	0	51	47	52	27		
9				0	49	0	45	51	49	27		
10				0	57	0	38	55	50	27		
11				0	63	0	56	43	51	23		
12				0	63	0	73	47	50	18		
13				0	63	0	74	39	49	17		
14				0	61	0	76	42	47	23		
15				0	60	0	77	45	45	14		
16				0	57	0	76	39	44	0		
17				0	51	0	76	33	43	0		
18				0	40	0	77	37	45	0		
19				0	43	0	78	52	46	0		
20				0	55	0	78	55	51	0		
21				0	65	0	76	52	45	0		
22				0	68	0	72	53	37	0		
23				0	64	0	68	65	32	0		
24				0	61	0	71	72	13	0		
25				0	54	0	74	71	20	0		
26				0	51	0	73	67	42	0		
27				0	20	30	77	68	30	0		
28				0	20	42	78	63	20	0		
29		-----		0	28	38	75	62	22	0		
30		-----		0	26	38	71	68	21	0		
31		-----		-----	21	-----	72	65	-----	0	-----	
TOTAL				0	1,293.2	205.5	1,977	1,580	1,335	386		
MEAN				0	41.7	6.85	63.8	51.0	44.5	12.5		
MAX				0	68	42	78	72	69	41		
MIN				0	5.0	0	38	18	13	0		
AC-FT				0	2,570	408	3,920	3,130	2,650	766		
YEAR 1997	MAX	78	MIN	0	AC-FT	13,440						

# NORTH PLATTE RIVER BASIN

**BAYARD CREEK near Bayard, 06683000 - 1997**

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. This stream is a drainage canal from irrigated areas and has only a relatively small amount of surface drainage.

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. E indicates estimated daily discharge. Estimated records April 1-3, 5-9, 23-May 2, May 5-8. Records good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 430 cubic feet per second June 3, 1997, gage height 4.66 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 430 cubic feet per second June 3, gage height 4.66 feet; minimum daily discharge 1.80 cubic feet per second June 20.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18	17	15	10 E	3.8E	16	14	136	85	29	26	23
2	19	18	15	2.0E	4.8E	65	15	114	86	24	26	23
3	19	19	15	8.0E	6.4	323	15	107	86	24	26	22
4	18	19	15	10	6.6	118	19	103	88	26	27	20
5	16	19	15	8.0E	5.2E	52	13	105	84	29	25	18
6	17	19	16	8.0E	4.6E	34	13	106	79	27	25	19
7	17	18	16	10 E	3.6E	29	19	100	78	32	26	21
8	17	19	16	12 E	4.4E	26	19	95	59	32	26	22
9	17	18	17	14 E	7.0	27	17	89	50	25	24	22
10	15	18	16	14	5.9	25	19	106	49	38	24	20
11	16	19	16	13	5.1	25	21	116	46	46	24	19
12	16	19	16	26	7.2	23	29	111	43	39	24	20
13	15	19	17	36	7.0	24	29	110	41	31	23	21
14	15	19	17	44	12	28	27	102	39	29	21	20
15	15	19	18	45	14	34	31	94	36	30	22	21
16	15	19	19	40	12	35	29	87	31	30	22	20
17	15	19	19	37	13	42	25	88	31	32	22	21
18	14	19	18	32	11	22	30	86	30	29	22	21
19	17	19	17	25	12	2.2	49	74	33	32	23	20
20	18	16	17	16	14	1.8	100	68	32	35	23	20
21	20	16	16	11	9.8	2.7	85	65	38	35	23	21
22	19	15	16	11	15	4.7	84	65	44	34	23	19
23	18	15	16	6.0E	29	3.5	57	56	41	32	23	18
24	18	16	17	3.6E	28	2.7	45	56	47	37	23	18
25	19	16	16	3.4E	120	4.2	45	59	48	31	23	18
26	20	16	16	3.4E	130	4.6	46	59	37	31	23	18
27	19	16	16	3.4E	109	7.7	50	65	29	32	24	18
28	19	16	16	3.4E	76	7.4	57	64	27	34	23	17
29	20	-----	16	3.6E	45	10	70	72	34	31	23	18
30	20	-----	16	3.6E	37	14	72	81	33	30	23	18
31	19	-----	16	-----	22	-----	168	86	-----	28	-----	18
TOTAL	540	497	507	462.4	780.4	1,013.5	1,312	2,725	1,484	974	712	614
MEAN	17.4	17.8	16.4	15.4	25.2	33.8	42.3	87.9	49.5	31.4	23.7	19.8
MAX	20	19	19	45	130	323	168	136	88	46	27	23
MIN	14	15	15	2.0	3.6	1.8	13	56	27	24	21	17
AC-FT	1,070	986	1,010	917	1,550	2,010	2,600	5,410	2,940	1,930	1,410	1,220

YEAR 1997      TOTAL      11,621.3      MEAN      31.8      MAX      323      MIN      1.8      AC-FT      23,050

# NORTH PLATTE RIVER BASIN

**ALLIANCE CANAL from Bayard Creek, 00002000 - 1997**

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

GAGE.--Continuous stage recorder and concrete box

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				7.3	25	27	38	3.5	10	26		
2				19	24	19	39	1.4	7.0	20		
3				23	26	36	39	1.1	6.8	20		
4				23	24	2.9	42	1.1	7.4	22		
5				34	25	0	38	1.4	6.2	26		
6				42	26	0	38	1.5	5.1	23		
7				12	26	0	34	1.2	5.0	27		
8				0	24	0	29	.98	23	27		
9				0	23	0	28	.88	34	21		
10				0	23	0	32	2.4	34	7.7		
11				0	24	0	34	2.9	34	0		
12				0	25	0	38	2.0	34	0		
13				0	26	0	36	1.6	34	0		
14				0	29	0	38	1.2	37	0		
15				0	25	0	41	.88	39	0		
16				0	23	0	37	.89	37	0		
17				0	23	0	28	.99	37	0		
18				0	24	13	32	1.1	37	0		
19				0	23	25	28	3.1	39	0		
20				11	27	26	1.1	4.6	39	0		
21				33	30	30	0	4.0	42	0		
22				29	30	34	0	5.0	45	0		
23				25	30	28	26	4.7	44	0		
24				21	24	26	33	4.6	42	0		
25				20	23	30	24	4.9	36	0		
26				20	7.3	30	9.9	4.9	33	0		
27				20	3.8	34	11	6.2	26	0		
28				24	.81	33	16	5.8	24	0		
29		-----		25	15	36	13	8.1	30	0		
30		-----		25	27	38	9.4	12	30	0		
31		-----		-----	31	-----	28	13	-----	0	-----	
TOTAL				413.3	716.91	467.9	842.4	108.12	859.5	219.7		
MEAN				13.8	23.1	15.6	27.2	3.49	28.7	7.09		
MAX				42	31	38	42	13	45	27		
MIN				0	.81	0	0	.88	5.0	0		
AC-FT				820	1,420	928	1,670	214	1,700	436		
YEAR 1997	MAX	45	MIN	0	AC-FT	7,200						

# NORTH PLATTE RIVER BASIN

## RED WILLOW CREEK near Bayard, 06684000 - 1997

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.

E indicates estimated daily discharge. Estimated records January 10, 26, April 5-7. Records good, except estimated records are poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,770 cubic feet per second June 2, gage height 8.43 feet; minimum daily discharge, 52 cubic feet per second March 28-29.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	68	62	61	54	77	166	172	369	173	119	93	74
2	67	61	61	56	76	434	166	323	165	118	88	74
3	68	62	62	57	87	757	161	279	182	121	67	73
4	66	61	61	58	82	201	160	252	183	119	67	73
5	65	61	61	55E	69	140	106	258	184	113	86	74
6	65	62	62	55E	64	122	100	282	199	115	85	74
7	65	61	61	60E	83	108	105	265	200	111	85	74
8	65	61	61	60	215	102	104	227	203	109	84	75
9	65	61	60	58	256	99	103	205	195	104	83	75
10	64E	60	60	57	295	96	99	226	240	100	83	75
11	62	60	61	55	269	93	182	306	259	95	80	75
12	62	60	61	55	259	91	137	326	229	91	80	75
13	57	60	60	56	221	87	139	318	214	91	79	75
14	64	60	59	60	184	87	134	324	228	92	78	76
15	64	59	61	61	164	84	127	297	249	92	78	75
16	63	60	61	60	141	79	110	248	248	91	77	76
17	64	60	60	60	151	78	87	230	254	95	77	76
18	64	59	59	60	145	80	81	212	257	97	76	75
19	63	59	59	74	143	79	189	180	249	95	76	74
20	64	59	59	72	129	83	571	148	251	93	76	74
21	64	59	58	58	128	202	279	130	238	93	76	73
22	63	59	58	58	147	255	246	115	253	93	76	72
23	62	59	58	65	164	252	207	111	270	92	75	71
24	62	60	57	67	150	220	173	103	288	97	75	70
25	61	61	57	72	374	215	151	101	260	94	75	70
26	60E	60	57	66	282	196	144	104	215	93	76	69
27	60	61	57	68	247	229	146	107	157	94	76	69
28	61	61	56	68	210	211	164	114	132	97	75	68
29	61	-----	56	71	239	182	184	125	128	98	75	67
30	61	-----	56	72	210	173	206	139	123	98	75	67
31	62	-----	57	-----	154	-----	515	165	-----	94	-----	68
TOTAL	1,962	1,688	1,837	1,848	5,415	5,201	5,448	6,589	6,426	3,104	2,392	2,256
MEAN	63.3	60.3	59.3	61.6	175	173	176	213	214	100	79.7	72.8
MAX	68	62	62	74	374	757	571	369	288	121	93	76
MIN	57	59	56	54	64	78	81	101	123	91	75	67
AC-FT	3,890	3,350	3,640	3,670	10,740	10,320	10,810	13,070	12,750	6,160	4,740	4,470
YEAR 1997	TOTAL	44,166	MEAN	121	MAX	757	MIN	54	AC-FT	87,600		

# NORTH PLATTE RIVER BASIN

**ALLIANCE CANAL from Red Willow Creek, 00003000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	0	33	32	1.9	35	9.5		
2				0	0	2.1	30	19	42	9.8		
3				0	0	1.5	31	26	37	9.5		
4				0	11	0	31	31	46	8.5		
5				0	20	0	32	26	45	9.9		
6				0	27	0	37	13	51	12		
7				0	10	0	44	27	49	8.9		
8				0	3.3	0	48	30	49	9.6		
9				0	3.2	0	44	33	36	9.9		
10				0	3.1	0	40	33	36	10		
11				0	3.2	0	4.8	26	38	10		
12				0	17	0	49	21	26	8.2		
13				0	45	0	57	20	22	4.6		
14				0	47	0	58	21	25	5.0		
15				0	42	0	62	19	19	5.1		
16				0	41	0	57	23	19	5.3		
17				0	49	0	54	19	20	5.9		
18				0	48	0	61	25	20	5.0		
19				0	50	0	45	25	17	0		
20				0	47	0	1.1	34	19	0		
21				0	50	0	0	41	16	0		
22				0	45	0	21	51	18	0		
23				0	46	.60	35	46	20	0		
24				0	41	1.6	39	45	19	0		
25				0	2.6	0	43	48	16	0		
26				0	0	19	46	46	10	0		
27				0	0	40	48	52	11	0		
28				0	1.9	29	46	.50	11	0		
29				0	19	20	41	49	9.9	0		
30				0	4.2	31	35	52	9.7	0		
31				0	15		6.1	45		0		
TOTAL				0	691.5	177.80	1,178.0	997.9	791.6	142.20		
MEAN				0	22.3	5.93	38.0	32.2	26.4	4.59		
MAX				0	50	40	62	52	51	12		
MIN				0	0	0	0	1.9	9.7	0		
AC-FT				0	1,370	353	2,340	1,980	1,570	282		
YEAR 1997	MAX	62	MIN	0	AC-FT	7,890						

# NORTH PLATTE RIVER BASIN

**BELMONT CANAL from North Platte River, 00009000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	58	60	92	111	87	62	0	
2				0	52	64	96	109	87	62	0	
3				0	49	65	107	109	86	61	0	
4				0	44	87	113	109	87	60	0	
5				0	53	74	117	110	87	59	0	
6				0	54	68	115	110	87	58	0	
7				0	67	65	113	110	86	58	0	
8				0	72	66	114	109	84	59	0	
9				0	71	66	115	107	82	58	0	
10				0	80	66	117	108	82	55	0	
11				0	83	62	118	106	82	49	0	
12				0	86	71	112	90	85	48	0	
13				0	82	73	109	86	87	48	0	
14				0	74	74	109	87	86	47	0	
15				24	78	72	107	90	84	47	0	
16				54	87	67	104	89	85	47	0	
17				67	85	65	103	89	89	47	0	
18				62	81	64	108	90	88	47	0	
19				52	79	84	111	89	88	46	0	
20				41	77	85	115	88	87	46	0	
21				33	80	94	121	87	84	46	0	
22				47	83	94	116	89	83	46	0	
23				44	84	92	112	90	80	45	0	
24				50	83	89	112	91	79	44	0	
25				64	89	88	113	91	69	43	0	
26				63	85	85	113	90	64	32	0	
27				32	76	90	115	90	64	18	0	
28				51	71	94	118	88	63	18	0	
29		-----		62	69	93	122	88	62	18	0	
30		-----		57	68	90	123	88	62	18	0	
31		-----		-----	60	-----	117	87	-----	8.2	-----	
TOTAL				803	2,260	2,307	3,477	2,975	2,426	1,400.2	0	
MEAN				26.8	72.9	76.9	112	96.0	80.9	45.2	0	
MAX				67	89	94	123	111	89	62	0	
MIN				0	44	60	92	86	62	8.2	0	
AC-FT				1,590	4,480	4,580	6,900	5,900	4,810	2,780	0	
YEAR 1997	MAX	123	MIN	0	AC-FT	31,040						

## NORTH PLATTE RIVER BASIN

## EMPIRE CANAL from North Platte River, 00039000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	0	.64	0	11	29	9.1		
2				0	0	.64	0	11	29	9.1		
3				0	0	.64	14	11	29	9.1		
4				0	0	.64	22	11	29	9.1		
5				0	0	.64	13	11	30	9.1		
6				0	0	.64	.57	11	30	9.1		
7				0	9.7	.56	.56	11	30	9.1		
8				0	22	.56	6.6	10	30	9.1		
9				0	26	.56	9.4	10	30	8.9		
10				0	32	0	18	10	30	8.7		
11				0	29	0	31	10	30	8.0		
12				0	38	0	31	10	30	5.1		
13				0	38	0	31	10	29	4.1		
14				0	24	0	31	9.4	29	4.1		
15				0	24	0	31	9.2	28	2.0		
16				0	8.9	0	31	8.6	27	0		
17				0	.70	0	25	8.2	27	0		
18				0	.64	0	12	8.2	28	0		
19				0	19	0	12	9.1	21	0		
20				0	27	0	12	9.5	9.9	0		
21				0	27	0	12	9.5	9.8	0		
22				0	27	0	12	9.5	9.7	0		
23				0	15	0	11	9.5	9.7	0		
24				0	8.2	0	11	9.5	9.7	0		
25				0	5.8	0	11	19	9.6	0		
26				0	.72	0	11	25	9.3	0		
27				0	.70	0	11	25	9.3	0		
28				0	.64	0	11	26	9.3	0		
29				0	.64	0	11	26	9.3	0		
30		-----		0	.64	0	11	27	9.3	0		
31		-----		-----	.64	-----	9.9	28	-----	0	-----	
TOTAL				0	385.92	5.52	453.03	413.2	649.9	113.7		
MEAN				0	12.4	.18	14.6	13.3	21.7	3.67		
MAX				0	38	.64	31	28	30	9.1		
MIN				0	0	0	0	8.2	9.3	0		
AC-FT				0	765	11	899	820	1,290	226		
YEAR 1997	MAX	38	MIN	0	AC-FT	4,010						

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at Bridgeport, 06684500 - 1997

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 3,663.51 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.  
 E indicates estimated daily discharge. Estimated records January 10-22. Records good, except estimated records 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 11,000 cubic feet per second June 2, combined flow for both channels; minimum daily discharge 660 cubic feet per second January 26, combined flow for both channels.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	951	885	796	2,590	4,400	3,480	2,780	4,120	1,380	1,840	1,330	1,120
2	997	875	794	2,650	4,300	4,840	2,470	3,790	1,390	1,840	1,320	1,120
3	1,000	881	803	2,660	4,260	8,450	2,100	3,330	1,400	1,800	1,300	1,110
4	1,000	864	782	2,670	4,030	8,440	1,920	2,950	1,450	1,740	1,300	1,100
5	988	871	778	2,850	3,730	6,200	1,730	2,650	1,520	1,690	1,280	1,090
6	969	882	764	2,820	3,240	5,300	1,600	2,780	1,520	1,640	1,260	1,080
7	971	888	750	2,950	2,790	5,220	1,510	2,660	1,540	1,590	1,250	1,080
8	944	885	762	3,060	2,720	5,550	1,340	2,440	1,520	1,570	1,240	1,070
9	931	880	750	3,100	2,640	5,650	1,350	2,240	1,480	1,540	1,230	1,070
10	900E	876	745	3,140	2,580	5,580	1,290	2,250	1,510	1,490	1,220	1,060
11	720E	876	738	3,110	2,770	5,770	1,280	2,560	1,520	1,460	1,210	1,050
12	740E	877	733	3,130	2,930	6,120	1,240	2,730	1,500	1,420	1,190	1,030
13	880E	876	736	3,100	3,010	6,340	1,210	2,750	1,470	1,390	1,180	1,030
14	880E	871	737	3,110	3,010	6,490	1,210	2,670	1,450	1,360	1,150	1,020
15	880E	865	762	3,110	3,050	6,660	1,200	2,550	1,440	1,330	1,140	1,030
16	900E	861	793	3,160	2,860	6,680	1,160	2,340	1,440	1,310	1,140	1,020
17	900E	844	821	3,260	2,730	6,700	1,140	2,200	1,440	1,300	1,130	1,010
18	900E	829	838	3,330	2,630	6,620	1,140	2,110	1,460	1,300	1,140	1,000
19	920E	837	846	3,530	2,570	6,170	1,190	1,920	1,520	1,290	1,140	995
20	920E	841	852	3,630	2,500	5,770	1,650	1,720	1,650	1,280	1,140	986
21	940E	834	864	3,660	2,280	5,900	1,760	1,610	1,720	1,280	1,130	983
22	940E	823	889	3,640	2,490	6,060	1,750	1,510	1,790	1,280	1,130	975
23	934	801	925	3,670	2,900	5,850	1,540	1,420	1,870	1,280	1,130	966
24	900	801	962	3,720	3,020	5,480	1,580	1,350	2,010	1,310	1,130	962
25	869	794	1,030	3,720	4,370	5,080	1,430	1,310	2,140	1,330	1,130	956
26	660	799	1,090	3,870	4,910	4,420	1,500	1,290	2,200	1,310	1,120	949
27	842	806	1,130	4,060	5,110	3,900	1,560	1,290	2,110	1,330	1,120	946
28	970	806	1,330	4,220	4,360	3,620	1,740	1,270	1,990	1,350	1,120	933
29	1,120	-----	1,680	4,290	4,030	3,460	1,810	1,280	1,390	1,340	1,120	930
30	1,080	-----	1,990	4,370	3,990	3,110	2,160	1,310	1,890	1,340	1,120	933
31	944	-----	2,300	-----	3,510	-----	3,080	1,350	-----	1,330	-----	930
TOTAL	28,490	23,828	29,770	100,180	103,720	168,910	50,420	67,750	48,710	44,660	35,540	31,534
MEAN	919	851	960	3,339	3,346	5,630	1,626	2,185	1,624	1,441	1,185	1,017
MAX	1,120	888	2,300	4,370	5,110	8,450	3,080	4,120	2,200	1,840	1,330	1,120
MIN	660	794	733	2,590	2,280	3,110	1,140	1,270	1,380	1,280	1,120	930
AC-FT	56,510	47,260	59,050	198,700	205,700	335,000	100,000	134,400	96,620	88,580	70,490	62,550
YEAR 1997	TOTAL	733,512	MEAN	2,010	MAX	8,450	MIN	660	AC-FT	1,455,000		



## NORTH PLATTE RIVER BASIN

BROWNS CREEK CANAL from North Platte River, 00019000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	0	40	81	92	74	29		
2				0	0	32	79	87	70	28		
3				0	0	12	84	95	62	28		
4				0	16	12	89	92	57	28		
5				0	28	11	87	90	52	26		
6				0	27	11	84	85	45	16		
7				0	42	11	75	77	43	13		
8				0	43	11	67	71	49	12		
9				0	49	11	82	65	52	12		
10				0	50	11	92	55	57	11		
11				0	46	11	91	52	53	11		
12				0	48	11	90	45	51	10		
13				0	46	19	89	40	42	9.9		
14				0	50	27	95	39	35	9.6		
15				0	54	17	95	43	35	3.6		
16				0	53	17	96	43	34	0		
17				0	60	18	97	56	34	0		
18				0	62	20	99	53	34	0		
19				0	64	29	97	48	34	0		
20				0	69	33	99	53	34	0		
21				0	74	36	96	59	34	0		
22				0	76	35	97	70	32	0		
23				0	77	36	97	73	29	0		
24				0	73	36	96	68	27	0		
25				0	55	51	91	72	23	0		
26				0	34	50	97	78	20	0		
27				0	34	59	99	79	17	0		
28				0	32	69	102	83	18	0		
29		-----		0	30	69	102	83	18	0		
30		-----		0	37	78	104	79	22	0		
31		-----		-----	38	-----	102	77	-----	0	-----	
TOTAL				0	1,367	883	2,851	2,102	1,187	247.1		
MEAN				0	44.1	29.4	92.0	67.8	39.6	7.97		
MAX				0	77	78	104	95	74	29		
MIN				0	0	11	67	39	17	0		
AC-FT				0	2,710	1,750	5,650	4,170	2,350	490		
YEAR 1997	MAX	104	MIN	0	AC-FT	17,130						

# NORTH PLATTE RIVER BASIN

COURTHOUSE ROCK CANAL from Pumpkin Creek, 00030000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	0	2.7	0			
2					0	0	0	2.7	0			
3					0	0	1.2	2.7	0			
4					0	0	1.5	2.8	0			
5					0	0	2.3	3.0	0			
6					0	0	3.0	3.0	0			
7					0	0	3.5	2.9	0			
8					0	0	3.7	2.8	0			
9					0	0	3.7	2.7	0			
10					0	0	3.7	2.8	0			
11					0	0	3.7	2.8	0			
12					0	0	3.7	2.7	0			
13					1.2	0	3.6	2.7	0			
14					1.6	0	3.5	2.6	0			
15					1.9	0	2.0	2.6	0			
16					2.0	0	0	2.7	0			
17					2.3	0	0	2.9	0			
18					2.4	0	0	2.9	0			
19					2.6	0	0	2.9	0			
20					3.0	0	0	2.9	0			
21					3.6	0	0	2.8	0			
22					4.0	0	0	2.7	0			
23					3.9	0	0	2.8	0			
24					3.7	0	0	2.7	0			
25					1.4	0	0	2.7	0			
26					0	0	.97	2.7	0			
27					0	0	2.5	2.9	0			
28					0	0	2.7	1.7	0			
29		-----			0	0	2.4	0	0			
30		-----			0	0	1.9	0	0			
31		-----		-----	0	-----	.57	0	-----		-----	
TOTAL					33.6	0	50.14	76.8	0			
MEAN					1.08	0	1.62	2.48	0			
MAX					4.0	0	3.7	3.0	0			
MIN					0	0	0	0	0			
AC-FT					67	0	99	152	0			
YEAR 1997	MAX	4.0	MIN	0	AC-FT	318						

## NORTH PLATTE RIVER BASIN

LAST CHANCE CANAL from Pumpkin Creek, 00080000 - 1997

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

GAGE.--Continuous stage recorder

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

REMARKS.--E indicates estimated daily discharge. Estimated records May 27-June 1.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	8.1E	3.0	0	0			
2					0	8.6	2.7	0	0			
3					0	3.4	2.5	0	0			
4					0	0	1.9	0	0			
5					0	0	2.2	0	0			
6					0	0	2.0	0	0			
7					0	0	1.8	0	0			
8					0	0	1.1	0	0			
9					0	0	.80	0	0			
10					0	0	.18	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					2.8	0	0	0	0			
20					2.8	0	0	0	0			
21					2.7	0	0	0	0			
22					2.3	0	0	0	0			
23					2.6	0	0	0	0			
24					3.2	0	0	0	0			
25					4.6	0	0	0	0			
26					5.1	4.6	0	0	0			
27					5.6E	4.6	0	0	0			
28					6.1E	4.4	0	0	0			
29		-----			6.6E	3.7	0	0	0			
30		-----			7.1E	3.5	0	0	0			
31		-----	-----		7.6E	-----	0	0	0	-----		
TOTAL					59.1	40.9	18.18	0	0			
MEAN					1.91	1.36	.59	0	0			
MAX					7.6	8.6	3.0	0	0			
MIN					0	0	0	0	0			
AC-FT					117	81	36	0	0			
YEAR 1997	MAX	8.6	MIN	0	AC-FT	234						

# NORTH PLATTE RIVER BASIN

MEREDITH-AMMER CANAL from Pumpkin Creek, 00088000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	6.6	2.7	2.9			
2					0	0	5.7	1.6	2.8			
3					0	0	5.3	1.4	2.8			
4					0	0	5.1	1.6	2.6			
5					0	0	4.4	3.1	2.5			
6					0	0	4.3	4.1	2.4			
7					0	0	4.2	2.2	2.6			
8					0	0	3.9	2.3	3.0			
9					0	0	3.3	2.4	3.3			
10					0	0	2.4	2.6	3.5			
11					0	0	2.0	2.7	3.6			
12					0	0	1.9	3.0	3.8			
13					0	0	1.5	3.0	3.8			
14					1.9	0	1.5	3.2	4.0			
15					5.3	0	1.3	3.3	4.1			
16					5.5	0	1.6	3.1	4.0			
17					4.9	0	2.2	3.1	4.0			
18					4.3	0	2.7	4.0	4.0			
19					4.4	0	2.7	4.2	3.9			
20					4.6	0	3.0	3.9	4.2			
21					4.4	0	3.3	3.5	4.4			
22					4.3	0	3.4	2.9	4.7			
23					4.6	1.7	3.4	2.3	2.4			
24					5.2	4.6	3.4	2.1	0			
25					2.4	5.6	3.1	2.0	0			
26					.03	5.1	3.2	2.1	0			
27					0	4.1	3.0	2.4	0			
28					0	4.1	2.0	2.2	0			
29		-----			0	4.0	2.3	2.2	0			
30		-----			0	4.8	2.2	2.7	0			
31		-----		-----	0	-----	2.2	2.9	-----			
TOTAL					51.83	34.0	97.1	84.8	79.3			
MEAN					1.67	1.13	3.13	2.74	2.64			
MAX					5.5	5.6	6.6	4.2	4.7			
MIN					0	0	1.3	1.4	0			
AC-FT					103	67	193	168	157			
YEAR 1997	MAX	6.6	MIN	0	AC-FT	688						

## NORTH PLATTE RIVER BASIN

## PUMPKIN CREEK near Bridgeport, 06685000 - 1997

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.

E indicates estimated daily discharge. Estimated records January 1-2, 4-31, February 4-6, 8-10, 23-24, March 1, 6, 14-15, April 5-6, 9-12, October 25-30, November 13-20, 23, December 4-14, 20-31. Records good, except fair for flows below 1 cubic foot per second, and poor for estimated records.

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 73 cubic feet per second April 18, gage height 2.11 feet; no flow many days during the summer.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	8.0E	13	9.8E	9.6	8.4	10	.04	.06	0	2.1	5.1	6.5
2	9.0E	12	10	10	8.2	24	.05	.04	0	1.8	5.6	6.5
3	9.4	11	9.6	10	8.3	52	.01	.03	0	1.9	6.1	6.6
4	9.1E	10 E	9.5	10	8.2	54	.01	.04	0	2.1	6.1	5.6E
5	9.0E	10 E	9.6E	9.0E	8.2	30	.01	.29	0	2.2	6.0	5.0E
6	7.8E	10 E	9.7	12 E	8.2	27	.03	.22	.60	2.6	5.9	5.0E
7	6.8E	10	9.6	11	7.5	26	.04	.14	.88	2.9	6.2	8.2E
8	11 E	10 E	9.6	11	8.0	30	.07	.07	1.2	3.3	6.5	8.0E
9	10 E	10 E	9.5	9.0E	8.3	24	.09	.08	.99	2.8	6.8	8.0E
10	9.0E	11 E	9.4	12 E	8.2	23	.06	.16	.02	2.5	6.9	9.0E
11	8.0E	11	9.5	11 E	5.9	21	.10	.16	.03	2.8	7.4	9.4E
12	8.0E	10	9.7	11 E	7.2	19	.04	.10	.03	3.8	7.7	10 E
13	7.6E	10	9.5	11	7.3	21	0	.11	.03	5.5	7.2E	10 E
14	8.0E	9.9	9.6E	10	4.8	24	0	.11	.04	4.7	7.0E	11 E
15	8.6E	9.9	9.8E	10	.87	19	.06	.05	.04	4.2	6.4E	11
16	9.2E	9.8	10	18	.02	18	.05	.06	.04	4.3	6.4E	11
17	11 E	9.8	10	64	.01	17	0	.08	.03	4.2	7.2E	12
18	13 E	11	9.7	69	0	16	0	.04	.03	4.5	7.4E	11
19	14 E	9.8	9.1	60	.01	12	.39	.01	.04	4.5	6.6E	10
20	14 E	9.6	8.9	49	0	12	1.7	0	.05	4.7	6.6E	10 E
21	12 E	9.5	8.4	31	0	18	1.9	.01	.05	5.2	6.6	10 E
22	11 E	9.4	8.1	27	0	18	1.9	.01	.05	6.1	6.6	10 E
23	10 E	9.4E	7.5	51	.05	15	.79	.01	.19	6.1	6.6E	11 E
24	10 E	9.6E	7.5	45	.02	5.1	.02	0	3.3	6.4	6.7	11 E
25	9.6E	9.9	8.1	59	8.6	1.9	.04	0	3.0	5.6E	6.6	10 E
26	9.8E	9.8	8.4	21	13	2.7	.06	.01	2.7	6.0E	6.7	11 E
27	10 E	10	8.7	8.3	13	2.7	.04	.02	2.5	7.0E	6.9	11 E
28	10 E	9.7	9.5	8.0	11	2.2	.04	.01	2.3	6.4E	7.2	11 E
29	10 E	-----	9.5	8.2	10	2.6	.07	0	2.2	5.8E	7.5	11 E
30	10 E	-----	10	8.3	11	2.4	.07	0	2.3	5.2E	6.9	11 E
31	11 E	-----	10	-----	11	-----	.06	.01	-----	4.8	-----	11 E
TOTAL	303.9	285.1	287.8	683.4	185.28	549.6	7.74	1.93	22.64	132.0	199.4	291.8
MEAN	9.80	10.2	9.28	22.8	5.98	18.3	.25	.062	.75	4.26	6.65	9.41
MAX	14	13	10	69	13	54	1.9	.29	3.3	7.0	7.7	12
MIN	6.8	9.4	7.5	8.0	0	1.9	0	0	0	1.8	5.1	5.0
AC-FT	603	565	571	1,360	368	1,090	15	3.8	45	262	396	579
YEAR 1997	TOTAL	2,950.59	MEAN	8.08	MAX	69	MIN	0	AC-FT	5,850		

# NORTH PLATTE RIVER BASIN

**BEERLINE CANAL from North Platte River, 00007000 - 1997**

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

REMARKS.--E indicates estimated daily discharge. Estimated record September 26-30.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	.10	2.5	11	11	3.1		
2					0	.23	2.0	8.6	11	3.1		
3					0	.48	7.2	8.3	8.8	2.8		
4					0	0	10	8.3	9.2	2.3		
5					0	0	9.7	8.8	10	2.2		
6					0	0	9.9	8.8	11	2.0		
7					0	0	17	8.6	11	1.9		
8					0	0	19	8.3	12	1.2		
9					0	0	18	7.8	9.7	0		
10					0	0	18	7.7	8.2	0		
11					0	0	20	8.3	8.2	0		
12					0	0	18	8.6	8.4	0		
13					0	0	17	8.6	8.3	0		
14					0	0	18	8.6	8.4	0		
15					0	0	19	10	8.5	0		
16					0	0	18	12	8.8	0		
17					0	0	16	11	9.0	0		
18					0	0	14	11	5.3	0		
19					0	0	15	10	3.6	0		
20					0	0	21	8.5	3.3	0		
21					0	0	18	8.7	3.0	0		
22					0	0	15	11	3.0	0		
23					0	0	11	11	3.0	0		
24					0	0	10	9.8	3.0	0		
25					0	0	13	9.9	2.9	0		
26					0	0	14	10	2.9E	0		
27					0	.42	13	11	3.0E	0		
28					0	.74	15	11	3.0E	0		
29		-----			0	.70	17	11	3.0E	0		
30		-----			0	1.4	13	11	3.0E	0		
31		-----		-----	0	-----	10	11	-----	0	-----	
TOTAL					0	4.07	438.3	298.2	203.5	18.6		
MEAN					0	.14	14.1	9.62	6.78	.60		
MAX					0	1.4	21	12	12	3.1		
MIN					0	0	2.0	7.7	2.9	0		
AC-FT					0	8.1	869	591	404	37		
YEAR 1997	MAX	21	MIN	0	AC-FT	1,910						

# NORTH PLATTE RIVER BASIN

**BELMONT CANAL from Cedar Creek, 00010000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	2.1	2.7	2.1	1.7			
2					0	2.4	3.0	2.2	1.3			
3					0	3.0	2.7	1.7	1.4			
4					0	2.0	2.6	1.6	1.3			
5					0	1.9	2.9	1.9	1.7			
6					0	1.8	2.4	2.8	1.8			
7					0	1.8	1.8	2.1	1.8			
8					0	1.8	1.7	1.5	1.7			
9					0	1.9	2.1	1.5	1.6			
10					0	1.8	2.4	2.4	1.3			
11					0	1.8	2.3	2.6	1.3			
12					0	1.8	2.2	2.1	1.9			
13					0	1.8	2.8	2.0	2.1			
14					0	1.8	3.3	1.9	1.6			
15					0	1.8	2.7	1.8	.92			
16					0	1.7	2.4	1.7	1.1			
17					0	1.7	2.3	1.5	1.3			
18					0	1.8	2.3	1.7	1.6			
19					0	1.7	2.8	1.3	.65			
20					2.4	2.2	2.1	1.2	0			
21					4.6	2.5	1.8	1.2	0			
22					3.0	1.9	1.9	1.4	0			
23					2.3	1.8	1.5	1.7	0			
24					2.3	2.4	1.7	1.9	0			
25					3.2	2.1	1.6	1.0	0			
26					2.5	3.1	1.5	1.7	0			
27					2.4	2.7	1.5	1.9	0			
28					2.2	2.0	1.4	1.8	0			
29		-----			2.5	2.0	2.3	1.7	0			
30		-----			2.4	2.7	2.0	1.6	0			
31		-----		-----	2.1	-----	1.9	1.7	-----		-----	
TOTAL					31.9	61.8	68.6	55.2	28.07			
MEAN					1.03	2.06	2.21	1.78	.94			
MAX					4.6	3.1	3.3	2.8	2.1			
MIN					0	1.7	1.4	1.0	0			
AC-FT					63	123	136	109	56			
YEAR 1997	MAX	4.6	MIN	0	AC-FT	487						

# NORTH PLATTE RIVER BASIN

LISCO CANAL from North Platte River, 00082000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	0	30	57	98	34	37		
2				0	0	59	63	49	34	30		
3				0	0	47	55	36	40	22		
4				0	0	51	53	42	52	15		
5				0	0	36	52	53	59	15		
6				0	31	34	50	56	65	14		
7				0	31	40	40	47	65	33		
8				0	35	54	47	49	54	47		
9				0	39	65	57	49	49	46		
10				0	33	52	48	51	47	48		
11				0	36	44	38	51	46	49		
12				0	49	48	52	47	46	55		
13				0	55	51	52	47	46	45		
14				0	53	47	51	50	46	34		
15				0	48	46	57	46	43	31		
16				0	35	38	52	42	50	30		
17				0	41	34	49	41	56	31		
18				0	47	32	56	47	54	33		
19				0	51	33	50	39	61	34		
20				0	53	31	72	54	72	36		
21				0	52	27	80	37	77	35		
22				0	58	36	55	23	70	34		
23				0	61	42	53	27	50	22		
24				0	61	49	51	12	51	0		
25				0	67	49	50	12	63	0		
26				0	67	48	51	67	66	0		
27				0	49	64	52	53	49	0		
28				42	39	50	55	40	34	0		
29				49	24	59	49	45	31	0		
30				58	26	58	51	43	35	0		
31				-----	41	-----	58	39	-----	0	-----	
TOTAL				149	1,182	1,354	1,656	1,392	1,545	776		
MEAN				4.97	38.1	45.1	53.4	44.9	51.5	25.0		
MAX				58	67	65	80	98	77	55		
MIN				0	0	27	38	12	31	0		
AC-FT				296	2,340	2,690	3,280	2,760	3,060	1,540		
YEAR 1997	MAX	98	MIN	0	AC-FT	15,980						



# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at Lisco, 06686000 - 1997

LOCATION.--SW1/4NE1/4 Sec. 33-18-46 W., Garden County, Lat. 41° 29' 24", Long. 102° 37' 04", 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

E indicates estimated daily discharge. Estimated records January 1-February 7, March 14-15, 20-23, May 23-27, October 26-30. Records 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 8,410 cubic feet per second June 4, gage height 4.68 feet; minimum daily discharge 785 cubic feet per second July 19.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1,120E	1,160E	1,000	2,190	4,130	3,490	2,970	3,300	1,040	1,740	1,630	1,200
2	1,120E	1,180E	1,030	2,390	4,180	3,990	2,690	3,720	1,090	1,670	1,600	1,170
3	1,120E	1,200E	991	2,520	4,070	5,000	2,600	3,390	1,120	1,680	1,550	1,170
4	1,100E	1,200E	936	2,610	3,940	7,650	2,300	3,010	1,130	1,630	1,520	1,170
5	1,100E	1,200E	937	2,730	3,720	7,350	2,090	2,740	1,200	1,600	1,470	1,130
6	1,100E	1,200E	927	2,790	3,370	5,700	1,810	2,630	1,300	1,560	1,470	1,080
7	1,100E	1,180E	954	2,850	2,870	4,670	1,510	2,530	1,350	1,540	1,470	1,140
8	1,100E	1,140	969	2,900	2,530	4,510	1,410	2,320	1,410	1,490	1,460	1,150
9	1,080E	1,090	985	2,950	2,490	4,640	1,430	2,040	1,400	1,480	1,420	1,190
10	1,000E	1,060	986	2,960	2,420	4,720	1,120	1,960	1,390	1,490	1,400	1,210
11	960E	1,020	976	2,970	2,490	4,720	1,050	2,160	1,410	1,510	1,380	1,180
12	920E	992	966	3,000	2,650	4,730	1,030	2,470	1,370	1,590	1,360	1,080
13	940E	987	905	2,970	2,760	4,910	971	2,580	1,330	1,520	1,350	1,120
14	960E	981	840E	3,010	2,690	5,090	984	2,540	1,340	1,520	1,180	1,140
15	980E	984	880E	3,100	2,580	5,210	1,000	2,440	1,330	1,540	1,150	1,140
16	1,000E	993	913	3,130	2,540	5,390	976	2,280	1,270	1,550	1,290	1,160
17	1,000E	1,000	955	3,090	2,370	5,430	887	2,170	1,230	1,540	1,310	1,150
18	1,000E	982	979	3,140	2,230	5,510	786	2,160	1,200	1,510	1,310	1,140
19	1,020E	976	1,010	3,270	2,150	5,360	785	1,930	1,220	1,490	1,300	1,120
20	1,020E	970	1,000E	3,400	2,090	5,080	1,150	1,620	1,410	1,510	1,320	1,110
21	1,020E	964	1,000E	3,440	2,030	4,820	1,660	1,390	1,620	1,520	1,320	1,100
22	1,040E	969	980E	3,430	2,140	4,910	1,680	1,250	1,750	1,520	1,290	1,080
23	1,040E	956	980E	3,440	2,200E	4,920	1,590	1,210	1,900	1,510	1,270	1,070
24	1,020E	965	979	3,560	3,000E	4,870	1,460	1,130	2,030	1,630	1,250	1,070
25	1,000E	969	992	3,670	3,500E	4,650	1,310	999	2,140	1,710	1,230	1,100
26	960E	988	1,020	3,740	4,000E	4,350	1,290	913	2,180	1,700E	1,180	1,090
27	900E	1,000	1,070	3,870	4,900E	3,860	1,250	928	2,160	1,700E	1,160	1,100
28	980E	1,010	1,120	3,890	4,920	3,580	1,450	918	1,960	1,700E	1,150	1,100
29	1,000E	-----	1,330	4,010	4,420	3,500	1,760	869	1,860	1,700E	1,150	1,130
30	1,060E	-----	1,620	4,150	4,230	3,330	2,100	907	1,810	1,700E	1,180	1,080
31	1,100E	-----	1,900	-----	3,920	-----	2,350	988	-----	1,690	-----	1,070
TOTAL	31,860	29,316	32,130	95,170	97,530	145,940	47,449	61,492	44,950	49,240	40,120	34,940
MEAN	1,028	1,047	1,036	3,172	3,146	4,865	1,531	1,984	1,498	1,588	1,337	1,127
MAX	1,120	1,200	1,900	4,150	4,920	7,650	2,970	3,720	2,180	1,740	1,630	1,210
MIN	900	956	840	2,190	2,030	3,330	785	869	1,040	1,480	1,150	1,070
AC-FT	63,190	58,150	63,730	188,800	193,500	289,500	94,120	122,000	89,160	97,670	79,580	69,300
YEAR 1997	TOTAL	710,137	MEAN	1,946	MAX	7,650	MIN	785	AC-FT	1,409,000		

# NORTH PLATTE RIVER BASIN

MIDLAND-OVERLAND CANAL from North Platte River, 00098000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	1.4	14	17	12			
2					0	1.3	27	16	15			
3					0	3.0	27	15	17			
4					0	3.3	21	14	18			
5					0	4.2	15	9.0	11			
6					.59	5.4	7.7	5.3	12			
7					1.9	5.1	.88	1.8	11			
8					.23	3.5	.89	1.0	8.5			
9					0	1.9	10	2.7	9.6			
10					0	1.8	15	5.5	10			
11					0	3.0	13	13	10			
12					0	2.8	6.9	21	9.8			
13					0	2.2	4.7	21	10			
14					0	2.0	5.0	2.9	11			
15					3.4	2.4	4.8	4.6	11			
16					13	2.8	3.0	4.5	11			
17					19	3.0	4.3	2.3	3.6			
18					19	3.3	16	.64	.63			
19					19	3.8	17	.64	.54			
20					19	4.2	16	.98	.55			
21					13	4.5	17	.40	.61			
22					12	6.8	19	.31	.96			
23					7.1	10	17	3.5	.55			
24					.60	16	17	9.1	.27			
25					.78	20	17	13	0			
26					3.9	20	17	18	0			
27					15	18	17	16	0			
28					16	16	21	14	0			
29					15	13	21	7.6	0			
30					8.4	9.6	17	5.5	0			
31					3.5	-----	16	6.4	-----			
TOTAL					190.40	194.3	425.17	252.67	194.61			
MEAN					6.14	6.48	13.7	8.15	6.49			
MAX					19	20	27	21	18			
MIN					0	1.3	.88	.31	0			
AC-FT					378	385	843	501	386			
YEAR 1997	MAX	27	MIN	0	AC-FT	2,490						

# NORTH PLATTE RIVER BASIN

PAISLEY CANAL from Blue Creek, 00120000 - 1997

LOCATION.--SEL/4NWL/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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	7.9	14	14	9.5	17		
2					0	13	8.7	13	12	18		
3					0	16	1.1	12	14	19		
4					0	12	1.3	16	14	19		
5					0	9.6	1.3	14	14	19		
6					0	3.4	1.8	14	14	19		
7					0	2.4	8.0	14	14	19		
8					0	3.1	13	13	14	19		
9					0	3.3	11	13	13	19		
10					0	2.7	7.4	14	12	19		
11					0	2.6	10	17	12	19		
12					0	2.5	12	16	14	17		
13					0	2.5	14	15	15	13		
14					0	.74	13	14	15	7.2		
15					0	0	7.6	14	15	0		
16					.12	0	5.3	13	15	0		
17					12	0	5.6	14	15	0		
18					17	0	5.3	14	16	0		
19					17	0	5.8	14	17	0		
20					17	0	6.4	14	17	0		
21					17	0	7.3	13	18	0		
22					16	.06	7.5	12	18	0		
23					16	1.2	7.5	9.8	19	0		
24					17	11	6.3	.42	21	0		
25					19	17	4.8	.37	20	0		
26					22	18	4.2	.37	18	0		
27					20	17	6.5	7.0	17	0		
28					10	17	6.8	8.5	17	0		
29		-----			5.9	19	7.2	9.1	17	0		
30		-----			5.1	16	11	9.3	17	0		
31		-----		-----	5.6	-----	14	9.3	-----	0	-----	
TOTAL					216.72	198.00	235.7	361.16	463.5	243.2		
MEAN					6.99	6.60	7.60	11.7	15.5	7.85		
MAX					22	19	14	17	21	19		
MIN					0	0	1.1	.37	9.5	0		
AC-FT					430	393	468	716	919	482		
YEAR 1997	MAX	22	MIN	0	AC-FT	3,410						

# NORTH PLATTE RIVER BASIN

**BLUE CREEK CANAL from Blue Creek, 00017000 - 1997**

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. Deliveries to Hooper Canal shown seperately in this report.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	13	44	46	40	19		
2					0	15	45	37	44	19		
3					0	8.9	48	35	50	19		
4					0	.34	50	35	50	18		
5					0	0	51	39	50	17		
6					0	.03	50	43	50	14		
7					11	1.3	51	43	50	14		
8					0	1.0	51	42	49	8.4		
9					0	1.2	51	41	49	4.0		
10					17	.06	56	43	47	4.0		
11					20	0	50	47	36	4.1		
12					20	0	24	51	36	8.3		
13					19	0	38	49	33	0		
14					25	0	45	48	30	0		
15					35	0	49	39	31	0		
16					36	0	49	37	30	0		
17					38	0	48	38	30	0		
18					43	6.2	49	41	30	0		
19					38	12	46	46	27	0		
20					32	12	45	50	22	0		
21					39	12	44	51	19	0		
22					39	11	46	47	17	0		
23					40	7.7	48	47	26	0		
24					36	7.7	46	41	28	0		
25					35	9.2	47	36	23	0		
26					31	17	49	40	21	0		
27					20	25	54	44	20	0		
28					17	26	55	46	19	0		
29					15	28	55	44	19	0		
30		-----			14	34	51	41	19	0		
31		-----		-----	13	-----	55	40	-----	0	-----	
TOTAL					633	248.63	1,490	1,327	995	148.8		
MEAN					20.4	8.29	48.1	42.8	33.2	4.80		
MAX					43	34	56	51	50	19		
MIN					0	0	24	35	17	0		
AC-FT					1,260	493	2,960	2,630	1,970	295		
YEAR 1997	MAX	56	MIN	0	AC-FT	9,600						

## NORTH PLATTE RIVER BASIN

## HOOPER CANAL from Blue Creek, 00067000 - 1997

LOCATION.--SE1/4NE1/4 Sec. 6-16-42 W. near Lewellen

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

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

REMARKS.--E indicates estimated daily discharge. Estimated records May 6-13.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	3.4	9.1	5.7	3.9			
2					0	3.6	9.0	6.2	3.8			
3					0	2.4	9.6	6.1	3.9			
4					0	.29	9.9	6.3	4.0			
5					0	0	10	7.5	4.4			
6					4.0E	0	10	8.4	6.3			
7					8.0E	0	10	8.5	6.5			
8					8.0E	0	9.9	8.5	6.4			
9					8.0E	0	10	9.1	9.2			
10					8.0E	0	11	9.7	9.9			
11					8.0E	0	9.2	11	8.3			
12					8.0E	0	4.7	9.9	8.0			
13					8.0E	0	7.9	9.1	7.4			
14					10	0	8.6	8.8	7.3			
15					12	0	8.9	8.2	8.6			
16					11	0	8.9	8.4	8.5			
17					11	0	8.9	8.7	8.2			
18					12	0	8.1	8.9	13			
19					4.2	0	3.8	9.3	0			
20					3.7	0	2.5	6.5	0			
21					9.5	0	3.1	5.2	0			
22					9.3	0	6.8	5.1	0			
23					9.1	0	7.5	4.8	0			
24					8.4	0	7.0	4.4	0			
25					8.7	0	7.2	4.3	0			
26					6.6	.23	7.6	7.6	0			
27					4.4	5.0	7.1	9.0	0			
28					4.2	1.5	6.9	9.2	0			
29					3.9	0	6.7	7.0	0			
30		-----			3.7	6.3	6.3	3.8	0			
31		-----		-----	3.6	-----	6.8	4.0	-----		-----	
TOTAL					195.3	22.72	243.0	229.2	116.73			
MEAN					6.30	.76	7.84	7.39	3.89			
MAX					12	6.3	11	11	9.9			
MIN					0	0	2.5	3.8	0			
AC-FT					387	45	482	455	232			
YEAR 1997	MAX	12	MIN	0	AC-FT	1,600						

# NORTH PLATTE RIVER BASIN

**UNION CANAL from Blue Creek, 00146000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	0	.20	12	10	6.3	13		
2				0	0	.30	14	7.3	6.8	12		
3				0	0	1.1	14	7.7	9.3	11		
4				0	0	1.3	15	8.5	9.7	12		
5				0	0	0	15	9.6	9.7	12		
6				0	0	0	14	10	11	9.9		
7				0	0	0	13	11	12	6.2		
8				0	0	0	14	10	8.2	4.0		
9				0	0	0	16	10	8.0	2.8		
10				0	0	0	16	11	7.4	4.2		
11				0	0	0	17	11	10	2.3		
12				0	0	0	16	10	10	0		
13				0	0	0	16	12	4.8	0		
14				0	0	0	15	12	0	0		
15				0	0	0	15	14	0	0		
16				0	0	0	15	14	0	0		
17				0	0	0	15	13	0	0		
18				0	0	0	15	11	0	0		
19				0	0	0	15	8.5	0	0		
20				0	8.6	0	15	11	0	0		
21				0	14	0	15	11	0	0		
22				0	16	0	14	11	8.2	0		
23				0	13	0	15	9.7	14	0		
24				0	14	0	14	14	12	0		
25				0	14	0	14	12	12	0		
26				0	13	2.1	14	11	12	0		
27				0	11	2.8	14	12	13	0		
28				0	8.5	6.6	14	11	15	0		
29		-----		0	7.8	7.7	14	11	15	0		
30		-----		0	7.0	6.9	11	11	15	0		
31		-----		-----	5.6	-----	6.7	8.9	-----	0	-----	
TOTAL				0	132.5	29.00	442.7	334.2	229.4	89.4		
MEAN				0	4.27	.97	14.3	10.8	7.65	2.88		
MAX				0	16	7.7	17	14	15	13		
MIN				0	0	0	6.7	7.3	0	0		
AC-FT				0	263	58	878	663	455	177		
YEAR 1997	MAX	17	MIN	0	AC-FT	2,490						

## NORTH PLATTE RIVER BASIN

GRAF CANAL from Blue Creek, 00060000 - 1997

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

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

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	0	10	4.9	8.1	8.4	5.4		
2				0	0	2.9	4.5	7.8	7.8	5.4		
3				0	0	3.7	11	6.7	5.9	5.3		
4				0	0	3.2	10	7.1	4.9	5.2		
5				0	0	.05	10	6.9	4.9	5.1		
6				0	0	2.5	9.9	6.6	4.0	5.5		
7				0	0	9.8	9.2	6.5	4.2	5.5		
8				0	0	9.8	.32	6.3	4.8	5.7		
9				0	0	9.5	.24	6.9	6.8	6.1		
10				0	0	9.5	4.7	7.5	8.1	6.0		
11				0	0	9.6	10	7.8	9.5	5.1		
12				0	0	9.5	7.2	7.5	9.7	0		
13				0	0	7.7	3.7	7.1	10	0		
14				0	0	9.9	6.0	2.5	11	0		
15				0	0	10	5.5	.23	11	0		
16				0	0	10	9.8	.22	8.7	0		
17				0	0	10	9.1	4.6	7.8	0		
18				0	.32	9.4	9.3	7.8	8.0	0		
19				0	1.8	6.5	9.4	7.2	8.1	0		
20				0	5.5	5.8	13	4.8	7.6	0		
21				0	3.2	5.7	9.8	4.2	7.5	0		
22				0	3.5	5.7	6.3	9.1	7.5	0		
23				0	7.8	5.7	5.7	9.1	7.1	0		
24				0	8.4	5.5	6.7	9.9	7.4	0		
25				0	9.6	6.8	8.4	10	6.3	0		
26				0	11	8.7	7.7	10	5.6	0		
27				0	7.4	8.5	3.1	6.4	5.5	0		
28				0	7.3	7.9	8.6	7.5	5.4	0		
29		-----		0	8.8	7.9	8.7	8.4	5.4	0		
30		-----		0	9.6	7.3	9.4	8.4	5.4	0		
31		-----		-----	10	-----	8.3	8.5	-----	0	-----	
TOTAL				0	94.22	219.05	230.46	211.65	214.3	60.3		
MEAN				0	3.04	7.30	7.43	6.83	7.14	1.95		
MAX				0	11	10	13	10	11	6.1		
MIN				0	0	.05	.24	.22	4.0	0		
AC-FT				0	187	434	457	420	425	120		
YEAR 1997	MAX	13	MIN	0	AC-FT	2,040						

# NORTH PLATTE RIVER BASIN

**BLUE CREEK near Lewellen, 06687000 - 1997**

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.  
 E indicates estimated daily discharge. Estimated records January 1, 10-22, 28-30, February 8-11, 19-21, November 14-17, December 5-6. Records good, except fair for discharges less than 5 cubic feet per second and poor for estimated records and discharges below 1 cubic foot per second.

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 174 cubic feet per second June 3, gage height 4.73 feet; maximum gage height 5.64 feet January 14 due to backwater from ice; no flow from September 5-7.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	110E	120	103	90	85	54	9.6	4.8	11	31	104	104
2	117	117	104	93	85	61	.95	17	10	30	101	104
3	119	112	109	94	84	116	6.7	19	2.9	29	99	100
4	118	106	105	94	88	135	9.1	27	.96	29	100	97
5	110	104	102	93	88	105	10	23	0	30	102	100E
6	105	106	101	91	83	95	15	18	0	34	101	102E
7	111	107	104	85	81	80	23	16	0	38	102	103
8	111	108E	105	97	109	75	24	14	.34	42	102	106
9	110	106E	105	88	93	77	17	12	8.0	49	102	106
10	73	106E	103	86	80	87	3.3	13	8.1	49	100	104
11	70E	106E	103	89	70	83	23	14	14	54	101	100
12	64E	104	102	90	63	77	44	9.3	16	104	102	104
13	60E	103	100	93	59	75	17	5.6	20	105	101	98
14	66E	106	92	98	54	81	9.7	7.1	27	86	100E	98
15	72E	109	96	96	45	88	5.4	13	28	80	96E	96
16	80E	110	99	92	41	84	5.7	13	29	79	94E	94
17	100E	112	102	91	33	82	2.2	11	29	81	104E	91
18	120E	112	101	90	21	92	1.4	10	29	83	106	90
19	124E	110E	98	89	20	76	.79	7.9	31	93	105	88
20	118E	108E	98	89	21	68	2.9	3.0	39	91	105	85
21	110E	106E	96	89	14	60	3.6	1.4	41	92	104	84
22	104E	102	95	86	16	63	4.9	.92	41	94	103	83
23	102	101	93	85	20	63	.18	1.2	35	94	102	85
24	99	100	93	86	22	56	.22	14	41	97	103	88
25	93	102	92	84	26	49	.79	17	39	82	105	89
26	65	102	93	85	32	43	1.2	18	37	103	105	88
27	86	103	94	85	60	30	7.5	15	34	122	105	88
28	92E	103	92	86	64	22	3.4	12	33	134	107	89
29	100E	-----	91	87	58	22	5.1	7.5	32	129	104	88
30	110E	-----	91	89	55	18	12	7.8	32	114	103	97
31	121	-----	91	-----	56	-----	5.2	10	-----	110	-----	96
TOTAL	3,040	2,991	3,053	2,690	1,726	2,117	274.83	362.52	668.30	2,388	3,066	2,945
MEAN	98.1	107	98.5	89.7	55.7	70.6	8.87	11.7	22.3	77.0	102	95.0
MAX	124	120	109	98	109	135	44	27	41	134	107	106
MIN	60	100	91	84	14	18	.18	.92	0	29	94	83
AC-FT	6,030	5,930	6,060	5,340	3,420	4,200	545	719	1,330	4,740	6,090	5,840
YEAR 1997	TOTAL	25,323.65	MEAN	69.4	MAX	135	MIN	0	AC-FT	50,230		



# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER near Lewellen, 06687500 - 1997

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 high water 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  
 E indicates estimated daily discharge. Estimated records January 1-February 17, March 14-20, December 12-19, 27-31.  
 Records 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 44 cubic feet per second July 13, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharge 8,170 cubic feet per second June 6, gage height 8.28 feet; minimum daily discharge 680 cubic feet per second estimated January 27.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1,140E	1,300E	1,080	2,020	3,950	4,410	3,430	2,650	957	1,820	1,550	1,380
2	1,160E	1,400E	1,070	2,380	4,070	4,260	2,900	3,770	1,010	1,740	1,540	1,380
3	1,140E	1,500E	1,080	2,520	4,170	5,060	2,650	3,890	1,040	1,700	1,530	1,370
4	1,120E	1,400E	1,040	2,550	4,110	5,610	2,340	3,380	1,060	1,650	1,540	1,350
5	1,100E	1,350E	1,020	2,680	4,040	6,760	2,030	2,910	1,100	1,580	1,550	1,290
6	1,100E	1,300E	1,020	2,770	3,810	7,870	1,830	2,870	1,130	1,510	1,550	1,230
7	1,100E	1,300E	1,040	2,760	3,300	6,860	1,640	2,670	1,170	1,460	1,520	1,240
8	1,100E	1,250E	1,040	2,800	2,640	5,580	1,490	2,490	1,250	1,440	1,520	1,350
9	1,040E	1,200E	1,040	2,870	2,380	5,030	1,650	2,240	1,300	1,480	1,510	1,350
10	1,040E	1,250E	1,050	2,870	2,310	5,130	1,350	2,080	1,290	1,440	1,480	1,350
11	1,060E	1,250E	1,050	2,900	2,240	5,300	1,220	2,140	1,280	1,480	1,470	1,330
12	1,060E	1,250E	1,050	2,900	2,370	5,340	1,340	2,310	1,320	1,910	1,450	1,200E
13	1,080E	1,200E	1,050	2,890	2,590	5,360	1,100	2,540	1,330	1,660	1,460	1,100E
14	1,100E	1,200E	1,020E	2,900	2,650	5,470	1,040	2,620	1,340	1,490	1,370	1,000E
15	1,100E	1,200E	1,000E	2,920	2,620	5,650	1,010	2,500	1,360	1,460	1,200	1,200E
16	1,100E	1,180E	1,040E	2,930	2,580	5,660	977	2,330	1,330	1,440	1,290	1,250E
17	1,120E	1,140E	1,040E	2,900	2,400	5,720	930	2,150	1,380	1,460	1,460	1,300E
18	1,140E	1,120	1,060E	2,880	2,190	5,730	851	2,120	1,330	1,470	1,500	1,350E
19	1,140E	1,130	1,060E	2,900	2,090	5,710	806	1,980	1,340	1,460	1,430	1,400E
20	1,160E	1,140	1,080E	3,000	2,010	5,710	831	1,750	1,430	1,460	1,440	1,430
21	1,160E	1,100	1,080	3,100	1,930	5,600	1,150	1,520	1,570	1,470	1,450	1,380
22	1,120E	1,090	1,070	3,080	1,960	5,220	1,490	1,350	1,700	1,470	1,450	1,350
23	1,100E	1,070	1,080	3,040	2,170	5,070	1,560	1,210	1,860	1,460	1,450	1,300
24	1,080E	1,070	1,080	3,030	2,470	5,200	1,500	1,080	2,110	1,520	1,440	1,310
25	1,000E	1,080	1,080	3,130	3,200	5,290	1,400	1,030	2,050	1,640	1,450	1,330
26	800E	1,090	1,100	3,270	3,910	5,240	1,300	991	2,190	1,690	1,440	1,310
27	680E	1,090	1,150	3,420	4,840	4,950	1,330	969	2,250	1,740	1,440	1,200E
28	900E	1,090	1,170	3,630	5,160	4,420	1,260	947	2,190	1,690	1,440	1,100E
29	1,000E	-----	1,210	3,770	5,390	4,090	1,490	916	2,000	1,710	1,420	1,000E
30	1,100E	-----	1,430	3,870	5,110	3,860	1,800	910	1,870	1,660	1,390	1,060E
31	1,200E	-----	1,730	-----	4,760	-----	2,120	926	-----	1,620	-----	1,100E
TOTAL	33,240	33,740	34,110	88,680	99,420	161,160	47,815	63,239	44,537	48,780	43,730	39,290
MEAN	1,072	1,205	1,100	2,956	3,207	5,372	1,542	2,040	1,485	1,574	1,458	1,267
MAX	1,200	1,500	1,730	3,870	5,390	7,870	3,430	3,890	2,250	1,910	1,550	1,430
MIN	680	1,070	1,000	2,020	1,930	3,860	806	910	957	1,440	1,200	1,000
AC-FT	65,930	66,920	67,660	175,900	197,200	319,700	94,840	125,400	88,340	96,760	86,740	77,930
YEAR 1997	TOTAL	737,741	MEAN	2,021	MAX	7,870	MIN	680	AC-FT	1,463,000		

# NORTH PLATTE RIVER BASIN

## KINGSLEY RESERVOIR from North Platte River, 06690000 - 1997

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

GAGE.--Electric tape gage read once daily

PERIOD OF RECORD.--1941 - 1988, 1990

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

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

### DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1,420,000	1,440,000	1,480,000	1,470,000	1,560,000	1,640,000	1,780,000	1,640,000	1,590,000	1,530,000	1,560,000	1,540,000
2	1,420,000	1,450,000	1,480,000	1,480,000	1,560,000	1,640,000	1,770,000	1,650,000	1,590,000	1,530,000	1,550,000	1,540,000
3	1,420,000	1,450,000	1,480,000	1,480,000	1,570,000	1,640,000	1,770,000	1,650,000	1,590,000	1,530,000	1,550,000	1,540,000
4	1,420,000	1,450,000	1,480,000	1,480,000	1,570,000	1,650,000	1,770,000	1,650,000	1,590,000	1,530,000	1,550,000	1,540,000
5	1,430,000	1,450,000	1,480,000	1,480,000	1,580,000	1,650,000	1,770,000	1,650,000	1,580,000	1,530,000	1,550,000	1,530,000
6	1,430,000	1,450,000	1,480,000	1,480,000	1,580,000	1,660,000	1,770,000	1,650,000	1,580,000	1,530,000	1,550,000	1,530,000
7	1,430,000	1,450,000	1,480,000	1,490,000	1,590,000	1,660,000	1,770,000	1,650,000	1,580,000	1,530,000	1,550,000	1,530,000
8	1,430,000	1,460,000	1,480,000	1,490,000	1,590,000	1,670,000	1,760,000	1,650,000	1,580,000	1,530,000	1,550,000	1,530,000
9	1,430,000	1,460,000	1,480,000	1,490,000	1,590,000	1,680,000	1,760,000	1,640,000	1,570,000	1,530,000	1,550,000	1,530,000
10	1,430,000	1,460,000	1,480,000	1,490,000	1,590,000	1,680,000	1,750,000	1,640,000	1,570,000	1,540,000	1,550,000	1,530,000
11	1,430,000	1,460,000	1,480,000	1,500,000	1,590,000	1,690,000	1,750,000	1,640,000	1,570,000	1,540,000	1,550,000	1,530,000
12	1,430,000	1,460,000	1,480,000	1,500,000	1,590,000	1,690,000	1,740,000	1,650,000	1,570,000	1,550,000	1,550,000	1,530,000
13	1,430,000	1,460,000	1,480,000	1,500,000	1,590,000	1,690,000	1,740,000	1,650,000	1,570,000	1,550,000	1,550,000	1,530,000
14	1,430,000	1,470,000	1,480,000	1,500,000	1,590,000	1,700,000	1,730,000	1,650,000	1,560,000	1,550,000	1,550,000	1,530,000
15	1,430,000	1,470,000	1,480,000	1,510,000	1,590,000	1,700,000	1,730,000	1,640,000	1,560,000	1,550,000	1,550,000	1,530,000
16	1,430,000	1,470,000	1,480,000	1,510,000	1,590,000	1,710,000	1,720,000	1,640,000	1,560,000	1,560,000	1,540,000	1,530,000
17	1,430,000	1,470,000	1,480,000	1,510,000	1,590,000	1,720,000	1,720,000	1,650,000	1,550,000	1,560,000	1,540,000	1,530,000
18	1,430,000	1,470,000	1,480,000	1,510,000	1,590,000	1,720,000	1,710,000	1,640,000	1,550,000	1,560,000	1,540,000	1,530,000
19	1,430,000	1,470,000	1,480,000	1,520,000	1,590,000	1,730,000	1,700,000	1,640,000	1,550,000	1,560,000	1,540,000	1,530,000
20	1,430,000	1,470,000	1,480,000	1,520,000	1,590,000	1,730,000	1,700,000	1,640,000	1,540,000	1,560,000	1,540,000	1,530,000
21	1,430,000	1,470,000	1,480,000	1,520,000	1,590,000	1,740,000	1,690,000	1,640,000	1,540,000	1,560,000	1,540,000	1,530,000
22	1,430,000	1,480,000	1,480,000	1,530,000	1,590,000	1,750,000	1,680,000	1,640,000	1,540,000	1,560,000	1,540,000	1,530,000
23	1,440,000	1,480,000	1,480,000	1,530,000	1,590,000	1,760,000	1,680,000	1,630,000	1,540,000	1,560,000	1,540,000	1,530,000
24	1,440,000	1,480,000	1,480,000	1,530,000	1,590,000	1,760,000	1,670,000	1,630,000	1,540,000	1,560,000	1,540,000	1,530,000
25	1,440,000	1,480,000	1,480,000	1,530,000	1,590,000	1,760,000	1,670,000	1,620,000	1,540,000	1,560,000	1,540,000	1,530,000
26	1,440,000	1,480,000	1,480,000	1,540,000	1,600,000	1,770,000	1,660,000	1,610,000	1,540,000	1,560,000	1,540,000	1,520,000
27	1,440,000	1,480,000	1,480,000	1,540,000	1,600,000	1,770,000	1,660,000	1,610,000	1,530,000	1,560,000	1,540,000	1,520,000
28	1,440,000	1,480,000	1,480,000	1,550,000	1,610,000	1,770,000	1,660,000	1,610,000	1,530,000	1,560,000	1,540,000	1,520,000
29	1,440,000	-----	1,470,000	1,550,000	1,610,000	1,780,000	1,650,000	1,600,000	1,530,000	1,560,000	1,540,000	1,520,000
30	1,440,000	-----	1,470,000	1,550,000	1,620,000	1,780,000	1,650,000	1,590,000	1,530,000	1,560,000	1,540,000	1,520,000
31	1,440,000	-----	1,470,000	-----	1,630,000	-----	1,650,000	1,590,000	-----	1,560,000	-----	1,520,000
MAX	1,440,000	1,480,000	1,480,000	1,550,000	1,630,000	1,780,000	1,780,000	1,650,000	1,590,000	1,560,000	1,560,000	1,540,000
MIN	1,420,000	1,440,000	1,470,000	1,470,000	1,560,000	1,640,000	1,650,000	1,590,000	1,530,000	1,530,000	1,540,000	1,520,000

YEAR 1997

MAX 1,780,000

MIN 1,420,000

## NORTH PLATTE RIVER BASIN

SUTHERLAND CANAL from North Platte River and Kingsley Reservoir, 00138000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	824	587	836	1,700	1,810	1,710	1,540	1,710	1,720	327	1,440	1,420
2	818	599	833	1,710	1,820	1,720	1,530	1,420	1,730	169	1,630	1,420
3	821	612	841	1,710	1,790	1,730	1,470	1,380	1,730	0	1,700	1,420
4	824	572	844	1,710	1,770	1,730	1,270	1,650	1,720	0	1,690	1,420
5	830	528	838	1,720	1,760	1,730	1,060	1,770	1,720	0	1,690	1,420
6	832	528	838	1,730	1,760	1,630	1,070	1,760	1,720	0	1,700	1,410
7	830	527	844	1,730	1,750	1,580	1,330	1,760	1,720	0	1,640	1,410
8	828	531	894	1,730	1,750	1,540	1,570	1,760	1,730	0	1,530	1,410
9	832	523	907	1,750	1,740	1,550	1,700	1,760	1,730	0	1,490	1,410
10	782	520	991	1,740	1,740	1,580	1,700	1,760	1,730	0	1,490	1,410
11	755	518	1,110	1,730	1,730	1,610	1,740	1,760	1,730	0	1,490	1,410
12	718	520	1,170	1,720	1,730	1,620	1,770	1,680	1,730	0	1,490	1,400
13	710	520	1,220	1,710	1,720	1,630	1,770	1,570	1,730	0	1,430	1,390
14	701	517	1,280	1,650	1,720	1,630	1,780	1,570	1,720	0	1,290	1,390
15	700	479	1,270	1,600	1,710	1,640	1,780	1,630	1,720	0	1,290	1,390
16	714	590	1,270	1,600	1,700	1,640	1,770	1,680	1,710	0	1,290	1,390
17	698	615	1,270	1,590	1,700	1,640	1,770	1,680	1,710	0	1,340	1,390
18	697	618	1,400	1,580	1,700	1,640	1,780	1,680	1,710	0	1,390	1,310
19	697	619	1,510	1,580	1,700	1,630	1,780	1,670	1,720	0	1,390	1,210
20	699	621	1,580	1,580	1,690	1,590	1,780	1,680	1,730	0	1,390	1,220
21	701	624	1,500	1,580	1,690	1,580	1,780	1,670	1,730	0	1,400	1,210
22	698	625	1,260	1,650	1,690	1,570	1,780	1,700	1,620	0	1,410	1,210
23	698	630	1,130	1,700	1,690	1,570	1,770	1,710	1,400	0	1,390	1,220
24	638	677	1,120	1,760	1,690	1,570	1,770	1,720	1,180	0	1,410	1,220
25	605	783	1,120	1,780	1,700	1,570	1,780	1,710	1,010	227	1,400	1,220
26	591	832	1,120	1,770	1,700	1,560	1,780	1,720	840	366	1,390	1,220
27	591	833	1,180	1,770	1,710	1,550	1,780	1,710	708	532	1,410	1,220
28	583	832	1,410	1,760	1,710	1,550	1,780	1,720	605	670	1,410	1,220
29	576	-----	1,600	1,770	1,710	1,550	1,790	1,720	521	818	1,410	1,220
30	583	-----	1,700	1,770	1,710	1,540	1,790	1,720	419	998	1,420	1,220
31	571	-----	1,700	-----	1,710	-----	1,780	1,730	-----	1,210	-----	1,230
TOTAL	22,145	16,980	36,586	50,880	53,500	48,380	51,540	52,160	44,493	5,317	43,840	41,060
MEAN	714	606	1,180	1,696	1,726	1,613	1,663	1,683	1,483	172	1,461	1,325
MAX	832	833	1,700	1,780	1,820	1,730	1,790	1,770	1,730	1,210	1,700	1,420
MIN	571	479	833	1,580	1,690	1,540	1,060	1,380	419	0	1,290	1,210
AC-FT	43,920	33,680	72,570	100,900	106,100	95,960	102,200	103,500	88,250	10,550	86,960	81,440
YEAR 1997	MAX	1,820	MIN	0	AC-FT	926,100						

# SOUTH PLATTE RIVER BASIN

**SOUTH PLATTE SUPPLY CANAL (Korty) from South Platte River, 06764900 - 1997**

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

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

PERIOD OF RECORD.--1947 - present

REMARKS.--E indicates estimated daily discharge. January 1-February 15, October 10-18, 26-28, November 15-21, December 6-16, 25-31.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	700E	700E	803	322	140	26	477	34	170	922	453	510
2	720E	730E	802	346	139	26	326	403	156	413	290	507
3	740E	560E	806	345	139	55	247	497	132	110	257	564
4	720E	550E	802	320	140	107	643	290	107	64	256	600
5	720E	560E	803	309	143	243	761	252	49	155	257	597
6	600E	550E	799	305	134	362	399	190	29	387	256	770E
7	500E	500E	798	285	130	421	339	164	21	718	256	840E
8	500E	520E	798	261	126	500	387	41	20	1,010	286	470E
9	450E	520E	794	255	118	422	334	48	20	1,060	437	410E
10	450E	550E	670	230	116	395	301	183	20	895E	498	470E
11	460E	520E	613	215	114	433	280	195	67	971E	501	380E
12	470E	500E	604	230	112	411	289	77	191	926E	491	470E
13	300E	510E	555	250	111	394	216	17	226	949E	497	440E
14	320E	460E	514	304	110	398	187	17	238	960E	490	300E
15	360E	500E	510	354	109	392	164	109	245	950E	460E	320E
16	330E	575	474	367	108	376	106	192	245	968E	300E	440E
17	320E	479	437	391	107	393	59	189	243	950E	240E	549
18	370E	242	422	402	106	445	20	218	244	938E	430E	594
19	410E	256	442	403	106	424	17	268	244	861	460E	778
20	520E	371	402	407	106	412	18	288	242	846	480E	760
21	470E	521	336	375	105	430	17	292	242	829	500E	684
22	520E	603	295	268	41	456	14	297	304	767	474	778
23	450E	682	283	223	0	471	15	300	440	729	474	779
24	520E	740	284	215	0	464	16	302	556	675	525	793
25	550E	788	260	203	0	435	15	314	667	685	506	640E
26	520E	814	235	193	0	414	15	311	837	615E	485	440E
27	400E	808	234	179	0	463	16	310	974	570E	480	400E
28	400E	808	292	166	6.1	474	17	314	996	610E	503	450E
29	540E	-----	375	161	28	472	18	311	981	735	506	720E
30	610E	-----	281	152	87	473	20	307	953	857	507	840E
31	700E	-----	278	-----	85	-----	21	240	-----	709	-----	850E
TOTAL	15,640	15,917	16,001	8,436	2,766.1	11,187	5,754	6,970	9,859	22,834	12,555	18,143
MEAN	505	568	516	281	89.2	373	186	225	329	737	419	585
MAX	740	814	806	407	143	500	761	497	996	1,060	525	850
MIN	300	242	234	152	0	26	14	17	20	64	240	300
AC-FT	31,020	31,570	31,740	16,730	5,490	22,190	11,410	13,820	19,560	45,290	24,900	35,990
YEAR 1997	MAX	1,060	MIN	0	AC-FT	289,700						

# NORTH & SOUTH PLATTE RIVER BASIN

**SUTHERLAND RESERVOIR from North & South Platte Rivers, 00409100 - 1997**

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.

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

DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	42,800	50,600	50,700	39,700	43,800	48,700	59,900	57,800	58,800	64,100	39,800	39,300
2	43,800	50,900	50,600	40,100	44,000	49,300	59,300	58,700	58,800	63,800	39,600	39,300
3	44,700	51,600	50,500	40,400	44,500	49,500	59,200	59,500	58,200	62,700	39,900	39,600
4	45,900	52,100	50,200	40,900	45,200	49,800	60,400	59,000	58,200	61,500	40,100	39,900
5	46,700	52,400	49,800	40,700	44,900	50,100	61,100	59,900	57,800	59,600	39,900	40,100
6	47,300	53,000	49,400	41,400	45,300	50,600	60,200	60,300	57,200	58,400	40,000	39,600
7	47,900	53,500	48,700	41,700	44,900	50,500	58,700	60,600	57,600	58,200	40,300	39,300
8	48,400	53,900	48,700	41,500	45,000	50,900	59,600	60,000	56,400	58,400	40,300	39,100
9	48,700	54,500	48,200	42,000	44,700	51,100	59,900	59,900	55,800	58,100	40,600	39,100
10	48,300	54,400	47,300	42,100	44,800	51,800	59,800	60,200	55,500	56,700	41,000	38,900
11	47,700	54,600	47,100	42,100	44,600	52,100	60,100	61,700	55,500	56,900	40,300	38,400
12	47,300	54,900	46,800	42,100	44,600	53,100	60,200	62,300	55,500	56,700	41,100	37,900
13	48,800	54,800	46,400	42,200	44,600	52,900	60,200	61,700	55,800	56,400	41,100	37,000
14	46,500	54,900	46,100	42,200	44,600	53,500	60,500	62,000	55,500	55,500	41,100	36,500
15	46,100	54,800	45,800	42,400	44,800	53,500	60,700	61,300	56,100	54,600	40,100	36,600
16	46,100	54,500	45,500	42,600	44,900	54,300	60,800	60,800	56,400	53,600	39,000	37,100
17	45,900	54,500	45,300	42,700	45,300	54,600	60,500	60,800	56,700	51,900	38,400	37,800
18	46,000	54,100	44,900	42,900	44,900	54,700	60,200	59,600	57,600	51,100	38,100	38,100
19	46,400	53,600	44,900	43,200	45,200	55,300	60,100	59,900	58,500	49,600	38,100	38,500
20	47,100	53,800	45,200	43,500	45,200	55,900	59,700	60,500	59,000	48,400	37,800	39,100
21	47,500	52,900	44,600	43,600	45,200	56,100	59,400	59,600	59,700	48,400	37,900	39,500
22	48,000	52,300	44,100	43,500	45,800	56,700	59,300	59,300	60,000	47,600	38,000	39,600
23	48,700	51,900	43,200	43,500	45,900	57,300	59,000	59,000	61,600	46,500	38,000	40,100
24	49,300	51,400	42,000	43,700	46,200	56,800	59,300	59,000	62,500	43,500	38,100	40,600
25	49,600	51,500	41,000	43,700	46,800	57,200	59,100	59,000	63,600	41,800	38,200	40,100
26	50,000	51,400	40,000	43,700	47,300	57,800	58,700	58,700	64,900	41,800	38,200	39,000
27	49,700	50,900	39,400	43,600	47,300	57,900	59,300	59,600	64,900	40,600	38,700	38,500
28	49,300	50,600	38,900	43,900	47,700	58,800	58,800	59,600	64,500	39,800	38,700	37,800
29	49,500	-----	38,700	43,900	48,100	58,900	58,700	59,400	64,400	40,300	38,700	37,000
30	49,800	-----	38,800	43,900	48,300	59,600	58,700	59,200	64,200	40,500	38,700	36,500
31	50,200	-----	39,200	-----	48,800	-----	57,800	59,100	-----	40,000	-----	36,700
MAX	50,200	54,900	50,700	43,900	48,800	59,600	61,100	62,300	64,900	64,100	41,100	40,600
MIN	42,800	50,600	38,700	39,700	43,800	48,700	57,800	57,800	55,500	39,800	37,800	36,500
YEAR 1997			MAX	64,900	MIN	36,500						

# NORTH & SOUTH PLATTE RIVER BASIN

**MALONEY RESERVOIR from North & South Platte Rivers, 00405500 - 1997**

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.

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

DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17,300	17,500	17,300	17,600	17,600	18,000	17,600	17,600	17,500	15,600	13,500	17,500
2	17,300	17,500	17,200	17,800	17,800	18,000	17,300	17,800	17,500	15,100	13,800	17,500
3	17,300	17,500	17,200	17,600	17,800	18,000	17,200	17,800	17,500	14,500	14,200	17,500
4	17,300	17,600	17,300	17,600	17,800	17,800	17,200	17,500	17,500	13,800	14,700	17,500
5	17,500	17,600	17,300	17,500	17,600	17,800	17,800	17,800	17,500	13,200	15,300	17,500
6	17,500	17,600	17,500	17,300	17,600	17,800	17,200	17,600	17,500	12,900	15,600	17,500
7	17,500	17,600	17,600	17,200	17,500	17,600	16,800	17,600	17,600	12,500	16,000	17,600
8	17,600	17,600	17,600	17,200	17,600	17,600	17,300	17,600	17,600	12,100	16,700	17,600
9	17,500	17,500	17,600	17,200	17,600	17,800	17,500	17,500	17,500	11,700	17,200	17,500
10	17,300	17,500	17,600	17,300	17,600	17,800	17,500	17,800	17,500	11,500	17,300	17,500
11	17,200	17,300	17,600	17,300	17,600	18,000	17,800	18,600	17,500	11,700	17,300	17,500
12	17,300	17,300	17,600	17,500	17,600	17,800	17,800	18,500	17,500	11,500	17,200	17,500
13	17,600	17,300	17,500	17,500	17,600	17,800	17,800	18,300	17,600	11,500	17,300	17,500
14	17,600	17,300	17,500	17,500	17,600	18,100	17,800	18,000	18,000	11,400	17,300	17,500
15	17,800	17,300	17,500	17,500	17,800	18,000	17,800	17,600	18,000	11,200	17,300	17,500
16	17,800	17,500	17,500	17,500	17,800	18,000	17,800	17,600	18,000	11,400	17,300	17,500
17	17,600	17,300	17,500	17,500	17,800	17,800	17,600	17,500	18,000	11,500	17,300	17,300
18	17,500	17,300	17,500	17,500	17,800	17,800	17,600	17,500	18,000	11,500	17,200	17,300
19	17,300	17,500	17,500	17,500	17,800	17,800	17,600	17,500	17,600	11,500	17,200	17,500
20	17,200	17,300	17,300	17,500	17,800	17,800	17,500	17,500	17,500	11,500	17,200	17,500
21	17,200	17,300	17,300	17,300	17,800	17,800	17,500	17,300	17,500	11,500	17,300	17,500
22	17,300	17,200	17,300	17,300	18,000	17,600	17,500	17,300	17,500	11,400	17,300	17,500
23	17,300	17,200	17,300	17,300	18,000	17,600	17,500	17,300	17,300	11,300	17,300	17,500
24	17,500	17,200	17,300	17,300	18,000	17,600	17,500	17,300	17,200	11,300	17,300	17,500
25	17,500	17,200	17,300	17,200	17,800	17,800	17,600	17,300	17,000	12,100	17,300	17,500
26	17,600	17,200	17,300	17,200	17,800	18,000	17,800	17,300	16,700	12,400	17,300	17,500
27	17,600	17,200	17,500	17,200	17,800	18,000	17,600	17,500	16,500	12,400	17,300	17,300
28	17,500	17,300	17,500	17,300	17,800	17,800	17,600	17,500	16,500	12,500	17,300	17,300
29	17,600	-----	17,500	17,300	17,800	17,800	17,600	17,500	16,400	12,600	17,300	17,200
30	17,500	-----	17,600	17,500	17,800	17,600	17,500	17,500	16,000	12,800	17,500	17,200
31	17,500	-----	17,600	-----	17,800	-----	17,600	17,500	-----	13,100	-----	17,200
MAX	17,800	17,600	17,600	17,800	18,000	18,100	17,800	18,600	18,000	15,600	17,500	17,600
MIN	17,200	17,200	17,200	17,200	17,500	17,600	16,800	17,300	16,000	11,200	13,500	17,200
YEAR 1997			MAX	18,600	MIN	11,200						

## NORTH &amp; SOUTH PLATTE RIVER BASIN

## SUTHERLAND POWER RETURN to the South Platte River, 00140000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	819	886	1,530	1,650	1,530	1,450	1,520	1,520	1,650	1,380	1,380	1,580
2	828	888	1,520	1,640	1,530	1,450	1,620	1,520	1,650	1,270	1,380	1,580
3	823	885	1,540	1,630	1,530	1,450	1,730	1,320	1,640	990	1,380	1,580
4	828	887	1,530	1,640	1,530	1,490	1,730	1,520	1,640	840	1,380	1,580
5	826	886	1,530	1,640	1,530	1,450	878	1,520	1,630	840	1,380	1,580
6	831	891	1,530	1,640	1,620	1,490	1,210	1,390	1,630	840	1,380	1,580
7	891	884	1,530	1,640	1,540	1,540	1,710	1,380	1,640	840	1,380	1,580
8	894	886	1,620	1,650	1,550	1,540	1,610	1,380	1,640	850	1,380	1,580
9	890	886	1,630	1,650	1,520	1,540	1,450	1,520	1,650	850	1,530	1,580
10	890	938	1,670	1,640	1,530	1,530	1,520	1,520	1,640	907	1,650	1,580
11	889	921	1,730	1,640	1,530	1,520	1,630	990	1,640	1,150	1,810	1,580
12	892	929	1,720	1,640	1,530	1,570	1,640	1,250	1,620	1,220	1,810	1,580
13	888	929	1,720	1,650	1,570	1,570	1,640	1,510	1,520	875	1,530	1,580
14	887	931	1,730	1,640	1,450	1,520	1,610	1,520	1,520	823	1,530	1,580
15	883	927	1,730	1,640	1,450	1,560	1,510	1,520	1,510	968	1,580	1,530
16	888	926	1,730	1,640	1,440	1,570	1,510	1,610	1,490	1,160	1,580	1,530
17	816	929	1,730	1,640	1,450	1,510	1,580	1,630	1,520	1,130	1,580	1,530
18	822	929	1,730	1,640	1,440	1,530	1,650	1,610	1,500	1,250	1,580	1,530
19	825	928	1,730	1,640	1,450	1,540	1,520	1,720	1,510	1,250	1,580	1,530
20	825	927	1,730	1,630	1,440	1,530	1,570	1,720	1,370	1,250	1,580	1,530
21	831	928	1,730	1,630	1,440	1,510	1,640	1,760	1,380	1,230	1,580	1,530
22	882	1,060	1,740	1,640	1,450	1,510	1,520	1,760	1,380	1,030	1,580	1,550
23	888	1,250	1,730	1,640	1,450	1,520	1,520	1,750	1,380	1,160	1,580	1,580
24	888	1,380	1,730	1,630	1,450	1,520	1,520	1,760	1,300	1,250	1,580	1,580
25	889	1,400	1,720	1,640	1,480	1,520	1,520	1,650	1,150	1,260	1,580	1,580
26	889	1,390	1,660	1,630	1,490	1,520	1,520	1,620	1,140	1,160	1,540	1,580
27	890	1,390	1,650	1,630	1,450	1,510	1,520	1,650	1,140	1,150	1,580	1,580
28	887	1,520	1,650	1,630	1,450	1,520	1,520	1,630	1,150	1,300	1,580	1,580
29	884	-----	1,640	1,630	1,460	1,510	1,520	1,640	1,400	1,290	1,580	1,580
30	883	-----	1,650	1,630	1,450	1,520	1,520	1,640	1,390	1,290	1,580	1,530
31	883	-----	1,640	-----	1,440	-----	1,520	1,670	-----	1,290	-----	1,580
TOTAL	26,829	28,511	51,450	49,150	46,170	45,510	47,678	48,200	44,420	34,093	46,140	48,550
MEAN	865	1,018	1,660	1,638	1,489	1,517	1,538	1,555	1,481	1,100	1,538	1,566
MAX	894	1,520	1,740	1,650	1,620	1,570	1,730	1,760	1,650	1,380	1,810	1,580
MIN	816	884	1,520	1,630	1,440	1,450	878	990	1,140	823	1,380	1,530
AC-FT	53,220	56,550	102,100	97,490	91,580	90,270	94,570	95,600	88,110	67,620	91,520	96,300
YEAR 1997	MAX	1,810	MIN	816	AC-FT	1,025,000						

# NORTH PLATTE RIVER BASIN

**NORTH PLATTE RIVER near Keystone, 06690500 - 1997**

LOCATION.--SW1/4 Sec. 1-14-38 W., Keith County, Lat. 41°12'30", Long. 101°37'50", 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 good.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 3,980 cubic feet per second October 21, gage height 5.64 feet; no flow January 1-May 4 and October 12-18.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	93	1,390	1,110	619	2,190	811	82
2	0	0	0	0	0	66	1,990	614	489	2,180	809	83
3	0	0	0	0	0	111	1,800	800	372	1,900	676	84
4	0	0	0	0	0	612	702	1,100	334	1,640	278	85
5	0	0	0	0	54	746	769	1,060	295	1,630	91	86
6	0	0	0	0	133	1,180	1,450	832	299	1,630	93	90
7	0	0	0	0	194	1,440	2,130	789	301	1,440	91	90
8	0	0	0	0	245	1,490	2,030	676	307	277	91	92
9	0	0	0	0	337	1,520	1,950	558	307	369	89	93
10	0	0	0	0	347	1,530	1,950	567	313	104	92	104
11	0	0	0	0	305	1,550	2,060	488	405	1.0	65	115
12	0	0	0	0	253	1,520	2,070	404	761	0	94	116
13	0	0	0	0	259	1,530	2,020	383	1,070	0	96	117
14	0	0	0	0	263	1,370	1,990	389	1,080	0	95	117
15	0	0	0	0	262	989	1,960	408	1,080	0	93	119
16	0	0	0	0	256	598	2,040	421	1,060	0	92	118
17	0	0	0	0	257	290	2,180	415	1,060	0	93	117
18	0	0	0	0	261	279	2,220	418	1,070	0	91	108
19	0	0	0	0	265	282	2,220	503	1,050	157	89	105
20	0	0	0	0	340	289	2,260	814	1,040	1,240	89	105
21	0	0	0	0	452	294	2,220	1,290	1,040	1,870	89	107
22	0	0	0	0	485	289	2,220	1,880	1,040	1,270	85	105
23	0	0	0	0	428	542	2,120	1,880	1,030	1,310	85	104
24	0	0	0	0	311	1,200	2,000	2,070	1,360	1,280	86	105
25	0	0	0	0	241	1,370	1,980	2,070	1,930	1,260	87	106
26	0	0	0	0	140	1,390	1,800	2,140	2,190	1,250	85	103
27	0	0	0	0	89	1,380	1,560	2,150	2,190	1,130	84	106
28	0	0	0	0	91	1,380	1,540	2,060	2,190	884	82	105
29	0	-----	0	0	89	1,370	1,610	1,530	2,200	797	82	75
30	0	-----	0	0	92	1,380	1,620	1,200	2,190	805	81	76
31	0	-----	0	-----	95	-----	1,550	823	-----	813	-----	94
TOTAL	0	0	0	0	6,544	28,080	57,401	31,842	30,672	27,427.0	4,864	3,112
MEAN	0	0	0	0	211	936	1,852	1,027	1,022	885	162	100
MAX	0	0	0	0	485	1,550	2,260	2,150	2,200	2,190	811	119
MIN	0	0	0	0	0	66	702	383	295	0	65	75
AC-FT	0	0	0	0	12,980	55,700	113,900	63,160	60,840	54,400	9,650	6,170
YEAR 1997	TOTAL	189,942.0	MEAN	520	MAX	2,260	MIN	0	AC-FT	376,700		



# NORTH PLATTE RIVER BASIN

KEITH - LINCOLN COUNTY CANAL from North Platte River. 00076000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	31	78	76	80			
2					0	31	85	85	77			
3					0	24	85	86	74			
4					0	0	89	93	73			
5					0	12	89	97	72			
6					5.4	19	89	90	71			
7					67	9.4	98	82	69			
8					54	31	101	83	68			
9					54	30	100	88	66			
10					54	30	100	86	65			
11					53	30	99	79	64			
12					54	29	92	74	62			
13					53	30	87	72	60			
14					51	29	88	57	58			
15					53	28	94	4.6	59			
16					52	24	100	3.3	65			
17					52	30	99	2.2	39			
18					52	30	99	52	0			
19					52	31	98	86	0			
20					53	10	96	88	0			
21					53	0	97	90	17			
22					51	0	99	85	51			
23					52	0	96	78	51			
24					52	0	102	84	33			
25					51	24	99	90	0			
26					41	71	86	91	0			
27					10	68	87	88	19			
28					26	68	87	87	0			
29		-----			44	67	83	88	0			
30		-----			31	70	83	89	0			
31		-----		-----	31	-----	82	86	-----		-----	
TOTAL					1,201.4	856.4	2,867	2,340.1	1,293			
MEAN					38.8	28.5	92.5	75.5	43.1			
MAX					67	71	102	97	80			
MIN					0	0	78	2.2	0			
AC-FT					2,380	1,700	5,690	4,640	2,560			
YEAR 1997	MAX	102	MIN	0	AC-FT	16,970						

# NORTH PLATTE RIVER BASIN

**NORTH PLATTE CANAL from North Platte River, 00114000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	58	320	80	181			
2					6.0	54	329	170	154			
3					0	4.0	333	184	145			
4					29	2.3	332	213	146			
5					55	2.1	326	231	147			
6					76	2.5	333	204	145			
7					95	3.3	296	192	126			
8					86	3.9	322	188	111			
9					88	4.5	331	181	110			
10					75	14	327	178	109			
11					83	71	329	171	108			
12					97	67	258	149	97			
13					100	65	231	148	92			
14					102	99	231	123	90			
15					109	96	253	83	51			
16					107	97	324	72	22			
17					130	91	330	39	13			
18					145	101	332	22	2.1			
19					145	119	332	68	0			
20					140	124	332	104	0			
21					126	124	339	140	0			
22					132	123	310	171	0			
23					118	129	220	195	0			
24					108	151	194	200	0			
25					84	170	190	228	0			
26					63	199	107	239	0			
27					63	221	67	251	0			
28					60	268	64	250	0			
29					57	274	65	235	0			
30					58	300	66	215	0			
31					58		66	201				
TOTAL					2,595.0	3,037.6	7,889	5,125	1,849.1			
MEAN					83.7	101	254	165	61.6			
MAX					145	300	339	251	181			
MIN					0	2.1	64	22	0			
AC-FT					5,150	6,030	15,650	10,170	3,670			
YEAR 1997	MAX	339	MIN	0	AC-FT	40,650						

## NORTH PLATTE RIVER BASIN

## PAXTON-HERSHEY CANAL from North Platte River, 00121000 - 1997

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

REMARKS.--E indicates estimated daily discharge. Estimated records May 22-June 16.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	34E	118	56	80			
2					0	34E	117	75	84			
3					0	34E	120	88	79			
4					0	34E	119	86	77			
5					0	36E	118	91	73			
6					0	38E	120	88	68			
7					0	40E	122	83	64			
8					0	42E	120	77	58			
9					1.4	44E	117	73	46			
10					7.6	46E	116	72	41			
11					8.9	48E	118	74	39			
12					10	50E	100	71	38			
13					24	50E	90	67	41			
14					32	50E	91	55	39			
15					33	50E	96	46	30			
16					34	50E	102	46	23			
17					35	49	121	46	23			
18					43	47	122	46	23			
19					50	38	120	45	23			
20					57	40	117	58	22			
21					71	46	112	75	22			
22					72 E	42	115	87	22			
23					72 E	38	110	90	22			
24					72 E	43	98	91	16			
25					70 E	54	88	102	13			
26					65 E	60	69	109	4.6			
27					60 E	58	62	106	0			
28					50 E	75	59	99	0			
29		-----			40 E	98	59	94	0			
30		-----			34 E	114	59	94	0			
31		-----		-----	34 E	-----	58	88	-----		-----	
TOTAL					975.9	1,482	3,153	2,378	1,070.6			
MEAN					31.5	49.4	102	76.7	35.7			
MAX					72	114	122	109	84			
MIN					0	34	58	45	0			
AC-FT					1,940	2,940	6,250	4,720	2,120			
YEAR 1997	MAX	122	MIN	0	AC-FT	17,970						

# NORTH PLATTE RIVER BASIN

**NORTH PLATTE RIVER near Sutherland, 06691000 - 1997**

LOCATION.--SW1/4SW1/4 Sec. 4-14-33 W., Lincoln County, Lat. 41° 12' 37", Long. 101° 06' 53"

GAGE.--Continuous stage recorder

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991  
E indicates estimated daily discharge. Estimated record July 10.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					89	133	968	1,620	644			
2					88	164	875	802	563			
3					85	278	1,460	383	392			
4					67	348	1,030	483	266			
5					54	743	295	743	212			
6					45	816	312	657	162			
7					58	1,440	1,050	570	165			
8					135	1,620	1,540	462	221			
9					204	1,750	1,560	345	235			
10					316	1,760	1,560E	289	225			
11					323	1,720	1,560	357	242			
12					257	1,660	2,070	316	373			
13					225	1,590	2,100	254	876			
14					237	1,550	1,970	327	1,120			
15					244	1,340	1,880	368	1,260			
16					235	966	1,700	386	1,310			
17					195	459	1,680	411	1,340			
18					158	273	1,730	432	1,490			
19					137	225	1,740	340	1,520			
20					140	219	1,760	355	1,500			
21					216	209	1,810	579	1,520			
22					313	187	1,860	1,090	1,500			
23					441	173	2,070	1,660	1,470			
24					331	392	1,960	1,670	1,460			
25					300	981	1,860	1,820	1,930			
26					288	1,120	2,290	1,810	2,520			
27					305	1,150	1,940	1,890	2,860			
28					220	1,070	1,660	1,930	2,820			
29		-----			155	1,060	1,650	1,920	2,910			
30		-----			148	1,020	1,760	1,270	2,950			
31		-----		-----	141	-----	1,710	1,040	-----			
TOTAL					6,150	26,416	49,410	26,579	36,056			
MEAN					198	881	1,594	857	1,202			
MAX					441	1,760	2,290	1,930	2,950			
MIN					45	133	295	254	162			
AC-FT					12,200	52,400	98,000	52,720	71,520			
YEAR 1997	MAX	2,950	MIN	45	AC-FT	286,800						

# NORTH PLATTE RIVER BASIN

BIRDWOOD CANAL from Birdwood Creek, 00016000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	0	13	30	30	9.6	0		
2				0	0	13	35	21	6.2	0		
3				0	0	16	46	10	5.8	0		
4				0	0	14	43	8.7	5.8	0		
5				0	0	11	44	8.8	5.5	0		
6				0	0	11	33	8.9	6.0	0		
7				0	0	11	30	11	10	0		
8				0	0	11	32	10	16	0		
9				0	0	11	32	3.1	21	0		
10				0	0	11	32	0	22	0		
11				0	0	12	37	0	17	0		
12				0	0	19	46	0	17	0		
13				0	0	24	39	10	2.6	0		
14				0	17	23	35	6.1	1.9	0		
15				0	17	11	35	2.0	0	0		
16				0	18	9.2	34	0	0	0		
17				0	22	8.4	34	0	0	0		
18				0	21	8.4	35	0	0	0		
19				0	19	8.9	36	0	0	0		
20				0	20	9.8	38	6.5	0	0		
21				0	21	10	41	16	0	0		
22				0	24	9.9	36	14	0	0		
23				0	29	9.7	22	14	0	0		
24				0	23	27	17	16	0	0		
25				0	23	43	14	19	0	0		
26				0	27	44	23	25	0	0		
27				0	20	39	22	28	0	0		
28				0	16	40	23	28	0	0		
29		-----		0	15	40	22	22	0	0		
30		-----		0	14	36	21	14	0	0		
31		-----		-----	14	-----	25	12	-----	0	-----	
TOTAL				0	360	554.3	992	344.1	146.4	0		
MEAN				0	11.6	18.5	32.0	11.1	4.88	0		
MAX				0	29	44	46	30	22	0		
MIN				0	0	8.4	14	0	0	0		
AC-FT				0	714	1,100	1,970	683	290	0		
YEAR 1997	MAX	46	MIN	0	AC-FT	4,750						

# NORTH PLATTE RIVER BASIN

**BIRDWOOD CREEK near Hershey, 06692000 - 1997**

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 1931 - 1993, all year record, 1994 - present, May - September partial year record.

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					149	139	110	162	124			
2					150	149	104	168	134			
3					145	178	107	132	128			
4					148	167	107	141	128			
5					148	144	109	140	130			
6					147	140	104	146	129			
7					148	139	101	142	148			
8					144	135	96	136	139			
9					137	132	96	141	130			
10					141	130	95	140	129			
11					141	137	93	150	130			
12					135	129	137	148	137			
13					135	123	128	139	147			
14					125	119	112	158	145			
15					138	150	111	149	147			
16					139	138	111	145	146			
17					141	135	111	146	139			
18					139	133	109	146	140			
19					132	131	109	150	138			
20					132	134	110	141	136			
21					131	134	123	134	137			
22					133	132	116	136	145			
23					164	128	208	135	150			
24					146	122	167	131	157			
25					146	123	145	126	154			
26					173	120	145	124	154			
27					179	116	141	126	152			
28					149	114	139	127	144			
29					141	114	140	130	143			
30		-----			141	115	143	126	144			
31		-----		-----	139	-----	146	123	-----		-----	
TOTAL					4,456	4,000	3,773	4,338	4,204			
MEAN					144	133	122	140	140			
MAX					179	178	208	168	157			
MIN					125	114	93	123	124			
AC-FT					8,840	7,930	7,480	8,600	8,340			
YEAR 1997	MAX	208	MIN	93	AC-FT	41,200						

## NORTH PLATTE RIVER BASIN

SUBURBAN CANAL from North Platte River, 00136000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	51	76	8.4	76			
2					0	52	82	36	71			
3					0	57	89	85	72			
4					0	33	88	76	70			
5					0	4.4	86	84	71			
6					0	5.7	84	80	69			
7					0	4.2	87	75	71			
8					0	4.5	87	69	28			
9					24	5.2	84	55	2.7			
10					53	5.5	81	52	1.1			
11					62	5.2	83	55	0			
12					46	5.9	70	53	0			
13					41	7.6	58	49	0			
14					42	27	58	54	0			
15					42	58	70	49	0			
16					79	56	71	44	0			
17					57	73	71	44	0			
18					63	66	73	44	0			
19					65	61	81	42	0			
20					69	65	81	42	0			
21					70	75	77	45	0			
22					70	74	76	47	0			
23					77	72	78	47	0			
24					57	67	75	72	0			
25					55	62	73	81	0			
26					58	59	20	80	0			
27					57	58	16	83	0			
28					54	58	14	83	0			
29					55	62	13	78	0			
30					54	70	13	75	0			
31					52		9.4	74				
TOTAL					1,302	1,304.2	2,024.4	1,861.4	531.8			
MEAN					42.0	43.5	65.3	60.0	17.7			
MAX					79	75	89	85	76			
MIN					0	4.2	9.4	8.4	0			
AC-FT					2,580	2,590	4,020	3,690	1,050			
YEAR 1997	MAX	89	MIN	0	AC-FT	13,930						

# NORTH PLATTE RIVER BASIN

**CODY-DILLON CANAL from North Platte River, 00027000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	0	1.8	.22	.16	6.5	0		
2				0	0	1.3	.52	.07	5.2	0		
3				0	0	7.5	2.8	0	3.9	0		
4				0	0	9.5	4.6	1.9	2.3	0		
5				0	0	12	.22	2.0	3.3	0		
6				0	0	14	0	2.3	3.9	0		
7				0	0	14	17	2.8	3.0	0		
8				0	0	7.1	53	3.1	1.2	0		
9				0	0	6.4	32	3.3	1.3	0		
10				0	0	4.9	32	3.5	1.2	0		
11				0	0	4.9	19	4.3	1.5	0		
12				0	0	4.9	14	7.1	2.0	0		
13				0	0	4.6	8.4	13	9.6	0		
14				0	0	4.2	7.6	14	16	0		
15				0	0	3.9	7.3	14	17	0		
16				0	0	3.4	8.9	14	15	0		
17				0	0	2.7	12	16	18	0		
18				0	0	1.1	13	16	4.2	0		
19				0	0	1.5	13	14	1.1	0		
20				0	.42	1.7	13	16	1.0	0		
21				0	4.4	1.3	16	18	1.1	0		
22				0	6.8	.72	16	20	1.6	0		
23				0	11	.61	18	26	1.9	0		
24				0	10	.73	15	34	2.6	0		
25				0	9.4	2.5	4.8	21	1.5	0		
26				0	8.1	1.8	.78	14	.12	0		
27				0	6.8	.29	.60	14	0	0		
28				0	4.5	.03	.35	12	0	0		
29		-----		0	3.8	.02	.29	13	0	0		
30		-----		0	3.6	.11	.24	12	0	0		
31		-----		-----	3.0	-----	.21	8.4	-----	0	-----	
TOTAL				0	71.82	119.51	330.83	339.93	126.02	0		
MEAN				0	2.32	3.98	10.7	11.0	4.20	0		
MAX				0	11	14	53	34	18	0		
MIN				0	0	.02	0	0	0	0		
AC-FT				0	142	237	656	674	250	0		
YEAR 1997	MAX	53	MIN	0	AC-FT	1,960						



## NORTH PLATTE RIVER BASIN

LINCOLN COUNTY DRAIN NO. 1 at North Platte, 06692500 - 1997

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--Continuous record 1931 - 1932, 1955 - 1992, partial year record 1993 - present.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					19	42	75	104	114			
2					20	44	74	116	116			
3					19	44	71	130	109			
4					20	40	65	128	114			
5					19	39	66	117	117			
6					28	38	68	126	121			
7					36	38	76	124	123			
8					38	38	72	122	110			
9					41	38	91	123	103			
10					40	38	104	117	102			
11					36	45	104	126	107			
12					43	58	150	129	108			
13					46	57	151	122	102			
14					40	52	140	139	103			
15					38	63	124	129	108			
16					34	48	109	111	88			
17					34	54	101	105	81			
18					39	55	102	90	75			
19					41	59	103	93	72			
20					42	66	110	95	70			
21					45	65	112	106	69			
22					48	64	111	94	69			
23					50	65	129	104	67			
24					47	68	137	104	65			
25					52	70	140	105	64			
26					46	81	172	95	62			
27					50	82	124	88	60			
28					47	79	110	94	58			
29		-----			44	70	110	91	57			
30		-----			44	71	109	97	55			
31		-----		-----	44	-----	108	101	-----		-----	
TOTAL					1,190	1,671	3,318	3,425	2,669			
MEAN					38.4	55.7	107	110	89.0			
MAX					52	82	172	139	123			
MIN					19	38	65	88	55			
AC-FT					2,360	3,310	6,580	6,790	5,290			
YEAR 1997	MAX	172	MIN	19	AC-FT	24,340						

# NORTH PLATTE RIVER BASIN

**NORTH PLATTE RIVER at North Platte, 06693000 - 1997**

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  
E indicates estimated daily discharge. Estimated records January 1-February 11, December 7-10. Records good except estimated records are poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 2,170 cubic feet per second July 26, gage height 5.41; minimum daily discharge 284 cubic feet per second April 28.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	310E	380E	326	307	309	322	959	1,660	973	2,140	1,090	455
2	310E	400E	334	342	324	315	905	1,520	755	2,140	1,060	457
3	310E	410E	336	367	326	363	992	936	696	2,120	1,040	451
4	310E	410E	327	352	323	450	1,340	726	587	2,100	1,040	451
5	310E	420E	319	359	300	593	689	814	524	1,900	879	449
6	310E	420E	316	356	302	801	509	1,020	486	1,700	614	438
7	330E	420E	331	348	315	1,030	639	897	482	1,660	535	430E
8	340E	420E	336	349	343	1,410	1,160	831	468	1,650	497	430E
9	350E	420E	337	362	378	1,510	1,470	761	527	1,240	476	440E
10	350E	420E	340	389	424	1,630	1,470	653	525	799	460	450E
11	330E	430E	346	396	448	1,650	1,450	738	519	678	446	447
12	330E	432	352	381	473	1,680	1,820	733	519	859	441	461
13	320E	433	357	384	441	1,650	2,000	625	617	1,100	430	483
14	310E	435	328	399	413	1,610	1,850	737	894	836	432	472
15	310E	389	335	391	392	1,740	1,740	740	1,070	644	391	468
16	300E	398	342	376	390	1,350	1,580	698	1,080	558	412	469
17	300E	409	345	357	365	1,050	1,480	661	1,050	514	441	464
18	310E	400	342	345	315	649	1,500	659	1,020	487	423	448
19	320E	412	335	345	295	535	1,540	633	1,080	462	414	449
20	330E	416	331	337	294	495	1,560	574	1,100	441	415	454
21	340E	405	334	341	303	501	1,640	632	1,150	582	416	453
22	350E	392	324	332	348	478	1,630	804	1,240	1,480	426	451
23	360E	385	322	324	448	451	1,860	1,170	1,290	1,450	431	455
24	370E	377	327	317	521	459	1,990	1,410	1,360	1,410	434	438
25	350E	360	324	308	491	785	1,820	1,530	1,370	1,560	437	454
26	340E	356	315	302	528	1,110	2,060	1,550	1,570	1,450	450	460
27	340E	341	310	296	556	1,180	2,040	1,550	1,880	1,430	459	460
28	330E	328	300	284	531	1,150	1,700	1,660	2,060	1,500	453	462
29	340E	-----	301	294	422	1,080	1,600	1,660	2,100	1,350	441	451
30	350E	-----	301	317	373	1,040	1,660	1,540	2,110	1,170	448	439
31	360E	-----	302	-----	348	-----	1,730	1,130	-----	1,110	-----	427
TOTAL	10,220	11,218	10,175	10,357	12,039	29,067	46,383	31,252	31,102	38,520	16,331	14,016
MEAN	330	401	328	345	388	969	1,496	1,008	1,037	1,243	544	452
MAX	370	435	357	399	556	1,740	2,060	1,660	2,110	2,140	1,090	483
MIN	300	328	300	284	294	315	509	574	468	441	391	427
AC-FT	20,270	22,250	20,180	20,540	23,880	57,650	92,000	61,990	61,690	76,400	32,390	27,800
YEAR 1997	TOTAL	260,680	MEAN	714	MAX	2,140	MIN	284	AC-FT	517,100		

## SOUTH PLATTE RIVER BASIN

## LODGEPOLE CREEK above Oliver Reservoir, 06762500 - 1997

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".

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					3.9	6.7	4.1	4.4	2.4			
2					4.3	6.5	3.8	7.5	2.3			
3					4.3	6.5	3.7	14	2.4			
4					4.3	6.5	3.6	8.3	2.5			
5					4.4	6.3	3.4	5.9	2.6			
6					4.3	6.3	3.0	5.7	2.5			
7					3.9	6.3	2.7	5.2	2.3			
8					3.8	6.4	2.4	4.7	2.3			
9					3.6	7.2	2.1	4.6	2.3			
10					3.6	7.0	2.0	4.6	2.2			
11					3.6	6.7	2.0	5.0	2.2			
12					3.6	6.5	1.9	5.1	2.2			
13					3.6	6.5	1.9	5.1	2.2			
14					3.5	6.7	2.0	5.0	2.2			
15					3.4	6.9	2.0	4.8	2.3			
16					3.0	6.8	2.2	4.9	2.4			
17					3.0	6.7	2.1	4.9	2.4			
18					2.8	6.7	2.0	4.9	2.5			
19					2.7	6.7	1.9	4.9	2.7			
20					2.7	6.7	1.9	4.8	3.4			
21					8.5	6.6	2.1	4.8	3.6			
22					15	6.4	2.8	4.7	3.7			
23					6.3	6.2	3.8	4.5	4.0			
24					21	5.9	3.1	4.3	4.0			
25					37	5.7	2.8	4.3	4.0			
26					11	5.4	2.7	4.2	4.0			
27					9.9	5.2	2.6	4.0	4.0			
28					9.0	4.9	2.6	3.4	4.0			
29		-----			8.3	4.8	3.1	2.8	4.1			
30		-----			7.3	4.5	13	2.6	4.1			
31		-----		-----	7.1	-----	5.1	2.5	-----		-----	
TOTAL					212.7	188.2	94.4	156.4	87.8			
MEAN					6.86	6.27	3.05	5.05	2.93			
MAX					37	7.2	13	14	4.1			
MIN					2.7	4.5	1.9	2.5	2.2			
AC-FT					422	373	187	310	174			
YEAR 1997	MAX	37	MIN	1.9	AC-FT	1,470						

# SOUTH PLATTE RIVER BASIN

**OLIVER RESERVOIR on Lodgepole Creek, 00407000 - 1997**

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

GAGE.--Staff gage

PERIOD OF RECORD.--1977 - present

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

DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1								2,510				
2					2,350					2,380		
3				2,270								
4												
5												
6												
7												
8												
9							2,540					
10												
11												
12												
13											2,410	
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25							3,250					
26												
27												
28												
29		-----										
30		-----										
31		-----		-----			-----		-----		-----	

# SOUTH PLATTE RIVER BASIN

**LOGEPOLE CREEK below Oliver Reservoir, 00219000 - 1997**

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, May - September.

REMARKS.--E indicates estimated daily discharge. Estimated records September 25-30.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					.30	13	1.0	.19	.18			
2					.30	9.4	.18	.20	.18			
3					.34	8.2	.18	.20	.18			
4					.36	6.1	.18	.18	.18			
5					.36	4.7	.18	.18	.18			
6					.36	3.8	.18	.17	.18			
7					.36	3.1	.18	.18	.18			
8					.36	2.6	.18	.18	.18			
9					.39	4.1	.18	.15	.18			
10					.42	3.9	.18	.16	.15			
11					.42	3.4	.18	.15	.12			
12					.42	2.5	.18	.15	.12			
13					.36	2.2	.18	.16	.12			
14					.36	2.2	.18	.17	.12			
15					.37	2.7	.18	.12	.12			
16					.42	2.3	.18	.14	.09			
17					.42	2.0	.18	.18	.06			
18					.39	1.9	.18	.18	.06			
19					.40	1.5	.18	.18	.15			
20					.32	1.2	.18	.18	.22			
21					.53	1.2	.18	.18	.24			
22					.42	.76	.18	.21	.24			
23					.38	.50	.18	.24	.24			
24					28	.38	.18	.21	.24			
25					239	.24	.18	.18	.30E			
26					225	.24	.18	.18	.30E			
27					213	.23	.18	.18	.30E			
28					132	.18	.18	.18	.30E			
29		-----			44	.20	.32	.18	.30E			
30		-----			25	.22	.48	.19	.30E			
31		-----		-----	19	-----	.18	.18	-----			
TOTAL					933.76	84.95	6.84	5.51	5.71			
MEAN					30.1	2.83	.22	.18	.19			
MAX					239	13	1.0	.24	.30			
MIN					.30	.18	.18	.12	.06			
AC-FT					1,850	168	14	11	11			
YEAR 1997	MAX	239	MIN	.06	AC-FT	2,060						

# SOUTH PLATTE RIVER BASIN

**WESTERN CANAL from South Platte River, 00147000 - 1997**

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1918 - present

REMARKS.--E indicates estimated daily discharge. Estimated records August 2-5.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day'	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	0	74	107	144	11	105		
2				0	0	96	62	140E	2.8	86		
3				0	0	93	88	130E	80	75		
4				0	0	83	95	130E	126	63		
5				0	0	68	110	120E	132	61		
6				0	0	114	134	124	140	60		
7				0	0	136	153	148	157	69		
8				0	0	113	172	154	160	54		
9				0	0	110	161	157	179	33		
10				0	0	115	169	144	159	38		
11				0	0	133	168	144	136	50		
12				0	0	69	130	162	123	63		
13				0	0	58	87	183	128	53		
14				0	0	76	59	192	126	41		
15				0	25	68	68	189	104	40		
16				0	78	67	127	152	108	34		
17				0	82	113	128	153	100	16		
18				0	86	113	128	176	96	5.7		
19				0	94	88	117	192	91	0		
20				0	82	130	107	160	94	0		
21				0	81	148	100	155	106	0		
22				0	90	102	105	140	104	0		
23				0	94	161	115	125	103	0		
24				0	99	145	149	124	85	0		
25				0	125	130	148	109	91	0		
26				0	133	115	164	95	91	0		
27				0	139	127	158	85	84	0		
28				0	106	130	122	73	88	0		
29		-----		0	108	138	143	59	83	0		
30		-----		0	111	137	162	30	88	0		
31		-----		-----	90	-----	119	18	-----	0	-----	
TOTAL				0	1,623	3,250	3,855	4,107	3,175.8	946.7		
MEAN				0	52.4	108	124	132	106	30.5		
MAX				0	139	161	172	192	179	105		
MIN				0	0	58	59	18	2.8	0		
AC-FT				0	3,220	6,450	7,650	8,150	6,300	1,880		
YEAR 1997	MAX	192	MIN	0	AC-FT	33,640						

## SOUTH PLATTE RIVER BASIN

## SOUTH PLATTE RIVER at North Platte, 06765500 - 1997

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  
E indicates estimated daily discharge. Estimated records January 1-2, 11-February 2, November 15-20, December 7-19, 26-31. Records 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 10,100 cubic feet per second June 20, gage height 11.33 feet; minimum daily discharge 213 cubic feet per second May 6.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	300E	670E	288	321	224	416	3,640	294	382	453	601	759
2	360E	700E	278	309	249	460	2,710	828	354	445	829	767
3	385	733	276	282	241	519	2,230	2,470	353	648	1,020	761
4	362	686	278	275	235	544	1,720	2,330	347	848	1,120	780
5	351	597	268	275	220	477	1,120	2,480	327	928	1,120	814
6	295	501	263	276	213	521	783	2,280	301	860	1,100	774
7	279	429	254	275	233	680	741	2,300	291	694	1,040	760E
8	268	367	257	276	263	1,010	663	2,180	306	510	939	740E
9	274	346	256	288	250	1,480	625	2,020	277	426	803	780E
10	298	342	236	292	250	1,970	550	2,170	267	421	733	800E
11	300E	341	254	288	262	2,580	479	2,990	264	398	729	780E
12	300E	352	281	279	259	3,470	515	3,050	279	531	788	800E
13	310E	371	277	315	252	4,680	433	2,700	287	692	788	820E
14	320E	350	289	345	249	6,040	420	2,540	282	675	818	840E
15	320E	350	305	324	244	7,800	404	2,230	305	593	800E	840E
16	310E	376	302	302	230	8,660	361	2,040	295	558	760E	800E
17	310E	487	295	313	222	9,270	334	2,110	311	518	700E	760E
18	320E	521	296	326	223	8,880	317	2,060	331	447	800E	700E
19	330E	583	295	332	222	8,680	315	1,870	319	371	860E	660E
20	350E	679	286	314	223	9,370	308	1,590	313	335	900E	633
21	340E	562	267	283	218	9,530	304	1,340	303	323	914	664
22	340E	450	238	266	222	8,960	310	1,170	322	302	908	738
23	360E	384	235	262	259	7,900	340	1,010	337	283	921	704
24	350E	372	242	253	269	6,990	306	864	327	285	875	714
25	330E	349	253	242	285	6,890	316	792	317	314	866	721
26	300E	325	259	228	292	7,100	358	713	319	306	827	700E
27	400E	305	267	214	322	7,030	295	613	291	353	743	700E
28	500E	292	268	217	340	6,890	279	505	288	482	744	720E
29	550E	-----	294	217	498	5,990	277	482	335	451	748	720E
30	620E	-----	270	218	473	4,680	277	543	415	414	777	740E
31	670E	-----	320	-----	429	-----	279	447	-----	467	-----	760E
TOTAL	11,102	12,820	8,447	8,407	8,371	149,467	22,009	51,011	9,445	15,331	25,571	23,249
MEAN	358	458	272	280	270	4,982	710	1,646	315	495	852	750
MAX	670	733	320	345	498	9,530	3,640	3,050	415	928	1,120	840
MIN	268	292	235	214	213	416	277	294	264	283	601	633
AC-FT	22,020	25,430	16,750	16,680	16,600	296,500	43,650	101,200	18,730	30,410	50,720	46,110
YEAR 1997	TOTAL	345,230	MEAN	946	MAX	9,530	MIN	213	AC-FT	684,800		

# PLATTE RIVER BASIN

**TRI-COUNTY CANAL from Platte River, 00142000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1,278	2,113	2,162	2,178	2,171	2,172	2,183	2,218	2,201	2,223	2,200	2,181
2	1,526	2,152	2,158	2,182	2,212	2,190	2,208	2,239	2,204	2,217	2,219	2,179
3	1,612	2,158	2,156	2,172	2,182	2,172	2,212	2,233	2,187	2,205	2,209	2,167
4	1,888	2,167	2,148	2,147	2,193	2,182	2,208	2,236	2,187	2,199	2,193	2,177
5	1,699	2,111	2,143	2,176	2,174	2,196	2,212	2,219	2,189	2,179	2,198	2,156
6	1,555	1,937	2,133	2,167	2,195	2,197	2,203	2,194	2,194	2,186	2,192	2,171
7	1,579	1,842	2,157	2,174	2,138	2,200	2,210	2,190	2,187	2,171	2,199	2,178
8	1,626	1,736	2,157	2,175	2,184	2,203	2,208	2,184	2,204	2,195	2,188	2,174
9	1,731	1,619	2,156	2,173	2,202	2,200	2,209	2,202	2,180	2,200	2,185	2,175
10	1,600	1,684	2,166	2,180	2,199	2,208	2,198	2,214	2,204	2,204	2,188	2,190
11	1,350	1,686	2,162	2,170	2,202	2,206	2,200	2,216	2,191	2,175	2,173	2,168
12	1,289	1,688	2,182	2,191	2,201	2,197	2,200	2,199	2,201	2,206	2,178	2,067
13	1,235	1,612	2,183	2,195	2,193	2,190	2,201	2,221	2,213	2,205	2,181	1,645
14	1,163	1,766	2,169	2,188	2,205	2,168	2,189	2,203	2,219	2,201	2,190	1,483
15	1,181	1,764	2,163	2,188	2,201	2,185	2,221	2,203	2,210	2,203	1,632	1,943
16	1,178	1,806	2,156	2,191	2,200	2,193	2,222	2,209	2,195	2,211	1,548	2,199
17	1,180	1,919	2,168	2,194	2,204	2,186	2,225	2,215	2,198	2,204	1,730	2,193
18	1,180	2,044	2,166	2,195	2,165	2,185	2,224	2,202	2,208	2,204	1,976	2,198
19	1,180	2,132	2,173	2,187	2,130	2,194	2,214	2,185	2,203	2,210	2,183	2,192
20	1,280	2,167	2,172	2,194	2,102	2,200	2,220	2,216	2,217	2,206	2,186	2,200
21	1,656	2,063	2,183	2,202	2,087	2,165	2,213	2,224	2,217	2,206	2,180	2,210
22	1,772	2,063	2,174	2,174	2,161	2,150	2,220	2,225	2,223	2,198	2,181	2,208
23	1,884	2,141	2,184	2,184	2,192	2,161	2,219	2,228	2,215	2,186	2,184	2,202
24	1,877	2,160	2,191	2,192	2,198	2,206	2,215	2,222	2,213	2,180	2,173	2,207
25	1,789	2,166	2,162	2,200	2,187	2,218	2,212	2,225	2,223	2,174	2,180	2,188
26	1,474	2,173	2,171	2,189	2,184	2,213	2,212	2,203	2,218	2,174	2,176	2,187
27	1,437	2,176	2,187	2,188	2,179	2,197	2,205	2,209	2,234	2,183	2,173	2,205
28	1,582	2,171	2,192	2,192	2,172	2,192	2,195	2,206	2,231	2,201	2,172	2,179
29	1,897	-----	2,191	2,193	2,174	2,166	2,206	2,219	2,219	2,191	2,154	2,157
30	1,923	-----	2,183	2,195	2,170	2,184	2,209	2,207	2,228	2,187	2,180	2,131
31	2,024	-----	2,191	-----	2,162	-----	2,209	2,202	-----	2,189	-----	2,163
TOTAL	47,625	55,216	67,239	65,526	67,519	65,676	68,482	68,568	66,213	68,073	63,701	66,073
MEAN	1,536	1,972	2,169	2,184	2,178	2,189	2,209	2,212	2,207	2,196	2,123	2,131
MAX	2,024	2,176	2,192	2,202	2,212	2,218	2,225	2,239	2,234	2,223	2,219	2,210
MIN	1,163	1,612	2,133	2,147	2,087	2,150	2,183	2,184	2,180	2,171	1,548	1,483
AC-FT	94,464	109,521	133,369	129,971	133,924	130,268	135,834	136,005	131,333	135,023	126,351	131,056
YEAR 1997	MAX	2,239	MIN	1,163	AC-FT	1,527,118						



# PLATTE RIVER BASIN

**JEFFREY RESERVOIR from Platte River, 00403700 - 1997**

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1977 - present

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

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

DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4,760	6,060	4,960	4,560	5,460	5,620	5,790	5,570	5,730	5,460	5,680	5,240
2	4,910	5,950	5,070	4,460	5,460	5,350	5,730	5,570	5,730	5,180	5,570	5,240
3	4,910	5,950	5,020	4,210	5,460	5,570	5,680	5,620	5,730	5,020	5,510	5,180
4	5,020	6,010	4,860	3,960	5,350	5,900	5,620	5,620	5,730	4,810	5,400	5,180
5	5,240	6,010	4,810	3,770	5,460	5,680	5,680	5,790	5,730	4,610	5,290	5,180
6	5,130	5,790	4,910	3,440	5,510	5,620	5,680	5,730	5,790	4,460	5,290	5,180
7	5,020	5,570	4,960	4,260	5,510	5,620	5,730	5,680	5,790	4,160	5,350	5,350
8	5,180	4,960	5,020	5,020	5,510	5,620	5,680	5,620	5,790	3,910	5,350	5,460
9	5,570	4,860	5,070	5,180	5,570	5,570	5,680	5,570	5,790	3,630	5,240	5,620
10	5,020	4,960	5,070	5,070	5,620	5,680	5,680	5,620	5,730	3,440	5,240	5,510
11	4,410	4,960	5,130	4,960	5,620	5,680	5,730	5,680	5,730	3,200	5,180	5,400
12	4,460	4,960	5,070	4,860	5,680	5,570	5,840	5,620	5,730	3,250	5,240	5,240
13	4,510	4,860	4,960	4,610	5,680	5,570	5,840	5,730	5,790	3,110	5,240	5,280
14	4,460	4,910	4,910	4,510	5,680	5,510	5,790	5,840	5,840	3,110	5,240	5,020
15	4,560	5,020	4,810	4,410	5,680	5,510	5,730	5,840	5,790	3,150	4,910	5,180
16	4,660	5,130	4,710	4,360	5,680	5,570	5,680	5,840	5,840	3,150	5,350	5,350
17	4,810	5,180	5,020	4,360	5,730	5,620	5,620	5,900	6,120	3,110	5,290	5,400
18	5,020	5,290	5,350	4,410	5,730	5,680	5,570	5,900	5,840	3,150	5,290	5,460
19	5,070	5,180	5,570	4,360	5,680	5,730	5,570	5,840	5,730	3,150	5,290	5,290
20	5,180	5,070	5,620	4,310	5,620	5,790	5,570	5,840	5,680	3,110	5,240	5,240
21	5,130	5,070	5,620	4,310	5,620	5,730	5,570	5,900	5,620	4,310	5,180	5,290
22	5,130	4,910	5,510	4,260	5,680	5,620	5,620	5,790	5,620	5,510	5,180	5,240
23	5,240	4,810	5,400	4,260	5,730	5,570	5,570	5,730	5,680	6,060	5,180	5,290
24	5,400	4,860	5,460	4,210	5,730	5,570	5,570	5,680	5,570	6,010	5,180	5,290
25	5,680	4,860	5,400	4,210	5,790	5,620	5,620	5,680	5,570	5,950	5,180	5,240
26	5,400	4,910	5,400	4,260	5,730	5,730	5,620	5,680	5,570	6,010	5,180	5,240
27	5,180	4,910	5,400	4,160	5,730	5,730	5,680	5,680	5,680	5,950	5,130	5,510
28	5,240	4,860	5,240	4,260	5,680	5,730	5,620	5,620	5,730	5,840	5,240	5,680
29	5,350	-----	5,070	4,260	5,680	5,680	5,680	5,620	5,730	5,790	5,290	5,680
30	5,570	-----	4,910	5,460	5,730	5,730	5,620	5,680	5,620	5,790	5,290	5,460
31	5,680	-----	4,710	-----	5,790	-----	5,510	5,730	-----	5,730	-----	5,460
MAX	5,680	6,060	5,620	5,460	5,790	5,900	5,840	5,900	6,120	6,060	5,680	5,680
MIN	4,410	4,810	4,710	3,440	5,350	5,350	5,510	5,570	5,570	3,110	4,910	5,020
YEAR 1997			MAX	6,120	MIN	3,110						

# PLATTE RIVER BASIN

JEFFREY POWER RETURN to Platte River, 00143000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	83	0	0	0	49	0	0	0	0	0	0
2	0	360	0	0	0	28	0	0	0	0	0	0
3	0	357	0	0	0	0	0	0	0	0	0	0
4	0	222	0	0	0	0	0	0	0	0	0	0
5	0	55	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	26	0	0	0	0	0
7	0	0	0	0	0	0	264	0	0	0	0	0
8	0	0	0	0	0	0	120	0	0	0	0	0
9	0	0	0	0	0	0	73	0	0	0	0	0
10	0	0	0	0	0	0	37	0	0	0	0	0
11	0	0	0	0	0	0	52	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	16	0	0	0	0	0	0	0
19	0	0	0	0	74	0	27	0	0	0	0	0
20	0	0	0	0	127	0	70	0	0	0	0	0
21	0	0	0	0	170	0	0	0	0	0	0	0
22	0	0	0	0	214	0	13	0	0	0	0	0
23	0	0	0	0	196	0	25	0	0	0	0	0
24	0	0	0	0	14	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-----	0	0	0	0	0	0	0	0	0	0
30	0	-----	0	0	0	0	0	0	0	0	0	0
31	0	-----	0	-----	0	-----	0	0	-----	0	-----	0
TOTAL	0	1,077	0	0	811	77	707	0	0	0	0	0
MEAN	0	38.5	0	0	26.2	2.57	22.8	0	0	0	0	0
MAX	0	360	0	0	214	49	264	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	2,140	0	0	1,610	153	1,400	0	0	0	0	0
YEAR 1997	MAX	360	MIN	0	AC-FT	5,300						

# PLATTE RIVER BASIN

**ELWOOD RESERVOIR from Platte River, 00403300 - 1997**

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1978 - present

REMARKS.--Values furnished by Central Nebraska Public Power and Irrigation District.  
 Published storage values before 1984 were for storage above the minimum operating level. Add 13,085 acre-feet to values listed in pre-1984 reports before comparing to values in this report.

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

DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15,100	14,100	13,400	21,000	29,700	35,700	33,200	15,800	12,200	17,700	16,500	15,300
2	15,100	14,100	13,400	21,400	30,000	35,900	32,500	14,900	12,100	17,700	16,500	15,300
3	15,100	14,100	13,300	21,800	30,200	36,100	31,900	14,100	12,000	17,700	16,400	15,300
4	15,000	14,100	13,300	22,100	30,400	36,200	31,300	14,000	12,000	17,600	16,300	15,200
5	15,000	14,100	13,200	22,400	30,500	36,300	30,600	13,900	11,900	17,500	16,300	15,200
6	14,900	14,000	13,100	22,700	30,700	36,600	30,200	13,700	11,900	17,400	16,300	15,100
7	14,900	14,000	13,100	23,000	31,100	36,700	29,600	13,600	11,900	17,400	16,200	15,100
8	14,900	13,900	13,100	23,200	31,300	36,800	29,000	13,600	11,900	17,400	16,200	15,100
9	14,900	13,900	13,100	23,700	31,500	37,000	28,400	13,400	12,200	17,300	16,100	15,100
10	14,900	13,900	13,100	23,900	31,600	37,100	27,900	13,300	12,600	17,300	16,100	15,000
11	14,800	13,900	13,100	24,300	31,800	37,300	27,300	13,300	12,900	17,200	16,100	14,900
12	14,800	13,900	13,300	24,500	32,000	37,500	26,800	13,200	13,100	17,400	16,000	14,900
13	14,800	13,800	13,700	24,900	32,200	37,600	26,200	13,100	13,400	17,300	16,000	15,000
14	14,800	13,800	14,200	25,100	32,400	37,700	25,700	13,300	13,700	17,200	15,900	15,300
15	14,700	13,700	14,600	25,400	32,600	37,800	25,100	13,400	13,900	17,200	15,900	15,300
16	14,600	13,700	14,900	25,700	32,800	37,900	24,600	13,500	14,200	17,100	15,900	15,300
17	14,600	13,700	15,300	26,000	33,000	38,000	24,000	13,400	14,500	17,100	15,800	15,300
18	14,600	13,700	15,700	26,300	33,200	38,100	23,500	13,400	14,900	17,000	15,800	15,200
19	14,600	13,700	16,300	26,500	33,300	38,100	23,000	13,400	15,300	17,000	15,700	15,200
20	14,600	13,600	16,700	26,800	33,500	38,000	22,400	13,300	15,700	17,000	15,700	15,100
21	14,500	13,600	17,100	27,100	33,700	37,900	21,800	13,300	16,100	16,900	15,700	15,100
22	14,500	13,600	17,500	27,400	33,800	37,700	21,400	13,200	16,700	16,800	15,600	15,100
23	14,400	13,600	17,900	27,700	34,200	37,500	20,800	13,100	17,100	16,800	15,600	15,000
24	14,400	13,500	18,200	27,900	34,300	37,200	20,300	13,000	17,500	16,800	15,500	15,000
25	14,400	13,500	18,600	28,100	34,500	36,700	19,600	12,900	17,900	16,800	15,500	15,000
26	14,400	13,400	19,000	28,400	34,700	36,200	19,100	12,800	18,000	16,700	15,500	14,900
27	14,300	13,400	19,300	28,700	34,900	35,700	18,600	12,600	17,900	16,700	15,400	14,900
28	14,200	13,400	19,600	28,900	35,000	35,000	18,100	12,500	17,900	16,700	15,400	14,900
29	14,200	-----	20,000	29,200	35,200	34,400	17,600	12,400	17,900	16,700	15,400	14,800
30	14,200	-----	20,400	29,500	35,300	33,800	17,000	12,300	17,800	16,600	15,300	14,800
31	14,200	-----	20,700	-----	35,600	-----	16,500	12,200	-----	16,500	-----	14,800
MAX	15,100	14,100	20,700	29,500	35,600	38,100	33,200	15,800	18,000	17,700	16,500	15,300
MIN	14,200	13,400	13,100	21,000	29,700	33,800	16,500	12,200	11,900	16,500	15,300	14,800
YEAR 1997			MAX	38,100	MIN	11,900						

# PLATTE RIVER BASIN

**JOHNSON RESERVOIR from Platte River, 00403800 - 1997**

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1977 - present

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

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

DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	40,100	38,900	39,800	40,300	42,900	43,900	44,400	43,400	41,000	37,700	44,900	43,400
2	40,500	38,600	40,100	40,500	42,900	44,400	43,900	42,900	40,500	38,400	45,200	43,200
3	40,300	38,900	40,300	40,500	42,900	44,400	43,700	42,400	39,600	38,400	45,400	43,400
4	39,800	38,600	40,500	40,500	42,700	43,900	43,400	42,400	38,900	38,400	45,200	43,400
5	39,600	38,600	40,500	40,500	42,900	43,700	43,200	42,700	38,400	38,600	45,200	42,900
6	39,600	39,400	40,800	40,500	42,900	43,700	43,700	43,200	38,200	40,100	45,200	43,200
7	39,600	39,800	41,000	40,300	42,900	44,200	43,200	43,400	37,200	40,500	45,200	42,900
8	39,400	40,100	41,200	39,400	42,900	44,200	42,400	43,700	37,000	40,800	44,900	42,700
9	39,100	40,500	41,200	38,900	42,900	44,200	42,700	43,900	36,600	41,700	44,900	42,400
10	39,100	40,300	41,200	39,100	42,900	44,400	42,400	44,200	35,900	41,200	44,900	42,200
11	38,900	39,800	41,500	39,400	42,900	44,400	42,700	44,700	35,500	41,700	44,900	42,200
12	38,200	39,400	41,500	39,400	42,900	44,700	43,200	43,700	35,000	42,900	44,900	42,900
13	37,500	39,100	41,000	39,400	42,900	44,400	43,700	43,200	34,600	42,700	44,900	42,900
14	37,000	38,600	40,800	40,100	42,700	43,900	43,400	43,400	34,200	43,200	44,900	42,400
15	37,000	38,400	40,500	40,500	42,700	43,700	43,900	42,700	33,700	45,200	44,700	40,500
16	37,000	38,200	40,300	42,400	42,700	42,700	44,200	42,400	33,500	45,200	43,900	39,800
17	37,000	37,900	41,200	44,200	42,700	43,700	44,400	42,200	33,100	45,200	42,400	40,100
18	37,500	37,900	41,500	44,900	42,700	44,900	44,200	41,900	32,200	45,200	41,900	40,300
19	37,900	37,700	41,700	44,700	42,700	44,900	44,400	42,200	32,200	45,200	41,900	40,500
20	38,200	37,900	41,900	44,400	42,700	44,400	44,900	41,900	31,800	45,200	42,400	40,800
21	38,900	38,200	41,500	44,400	43,200	44,400	44,200	41,700	31,400	45,200	42,700	41,000
22	39,100	38,400	41,000	44,200	43,700	43,400	43,400	41,700	31,600	44,400	42,400	41,200
23	38,900	38,600	40,800	43,900	44,200	43,200	42,700	41,900	31,600	43,200	42,700	41,000
24	38,900	38,900	40,500	43,700	43,900	42,900	42,900	41,700	31,600	43,200	42,700	41,200
25	38,900	39,100	40,300	43,700	44,200	42,400	42,200	41,700	31,600	43,700	42,700	41,200
26	38,400	39,400	40,100	43,900	44,200	42,900	42,400	42,200	31,400	43,900	43,200	41,200
27	38,400	39,400	40,100	43,900	43,700	43,400	42,400	40,800	31,600	44,200	42,900	41,000
28	38,600	39,600	39,800	43,900	43,400	44,200	42,900	41,200	31,800	43,900	43,200	41,000
29	38,900	-----	39,800	44,200	43,900	44,700	43,200	41,700	32,600	44,400	43,400	40,500
30	39,100	-----	39,800	43,200	43,900	44,900	43,700	42,200	34,800	44,400	43,400	40,300
31	38,600	-----	40,100	-----	43,900	-----	43,200	41,900	-----	44,700	-----	40,300
MAX	40,500	40,500	41,900	44,900	44,200	44,900	44,900	44,700	41,000	45,200	45,400	43,400
MIN	37,000	37,700	39,800	38,900	42,700	42,400	42,200	40,800	31,400	37,700	41,900	39,800
YEAR 1997			MAX	45,400	MIN	31,400						

## PLATTE RIVER BASIN

PHELPS COUNTY CANAL from Platte River via Tri-County Canal, 00122000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	154	238	1,240	1,060	623			
2				0	182	238	1,290	960	544			
3				0	200	238	1,290	937	499			
4				0	206	239	1,280	1,000	458			
5				0	147	249	1,250	988	424			
6				0	146	255	1,210	824	354			
7				0	146	265	1,090	791	189			
8				0	146	275	1,170	749	98			
9				0	147	280	1,180	660	129			
10				0	147	280	1,200	641	148			
11				0	163	280	1,160	328	149			
12				0	194	280	1,050	159	150			
13				0	194	281	1,050	242	150			
14				0	208	283	1,110	231	150			
15				0	212	275	1,190	205	150			
16				0	212	266	1,200	187	147			
17				0	215	305	1,230	235	39			
18				0	214	340	1,200	239	0			
19				0	232	291	1,140	228	0			
20				0	236	316	1,140	226	0			
21				0	236	327	1,120	224	0			
22				0	228	344	1,090	226	0			
23				0	182	445	1,110	224	0			
24				0	174	534	1,150	236	0			
25				0	191	600	1,080	342	0			
26				0	197	697	993	551	0			
27				0	183	828	1,050	728	0			
28				79	219	933	1,060	762	0			
29		-----		154	236	937	1,060	807	0			
30		-----		154	230	1,030	1,060	728	0			
31		-----		-----	218	-----	1,090	661	-----			
TOTAL				387	5,995	12,149	35,533	16,379	4,401			
MEAN				12.9	193	405	1,146	528	147			
MAX				154	236	1,030	1,290	1,060	623			
MIN				0	146	238	993	159	0			
AC-FT				768	11,890	24,100	70,480	32,490	8,730			
YEAR 1997	MAX	1,290	MIN	0	AC-FT	148,500						

# PLATTE RIVER BASIN

**JOHNSON POWER RETURN to Platte River, 00144000 - 1997**

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1941 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	950	1,568	1,731	1,579	1,436	1,144	158	315	1,027	174	1,756	1,840
2	956	1,634	1,738	1,593	1,401	1,143	108	426	1,021	1,000	1,759	1,852
3	1,283	1,607	1,736	1,671	1,389	1,241	88.0	440	1,117	1,717	1,759	1,827
4	1,504	1,606	1,738	1,721	1,386	1,291	0	214	1,159	1,723	1,765	1,852
5	1,513	1,684	1,740	1,722	1,447	1,283	0	132	1,236	1,724	1,863	1,862
6	1,494	1,620	1,738	1,658	1,431	1,256	0	315	1,328	936	1,861	1,857
7	1,495	1,617	1,738	1,736	1,408	1,147	0	351	1,487	1,728	1,861	1,851
8	1,483	1,637	1,736	1,739	1,349	1,112	110	395	1,585	1,736	1,861	1,853
9	1,485	1,636	1,735	1,552	1,332	1,109	1.0	477	1,554	1,536	1,861	1,865
10	1,162	1,645	1,736	1,541	1,354	1,119	0	509	1,543	1,733	1,862	1,861
11	1,417	1,649	1,735	1,608	1,380	1,123	0	1,093	1,517	1,726	1,861	1,867
12	1,397	1,622	1,732	1,724	1,344	1,135	0	1,514	1,562	1,730	1,862	1,412
13	1,244	1,612	1,730	1,723	1,346	1,346	0	1,424	1,564	1,750	1,866	1,742
14	1,026	1,600	1,736	1,569	1,330	1,469	0	1,434	1,533	1,758	1,865	1,800
15	924	1,595	1,735	1,591	1,323	1,476	0	1,453	1,552	1,767	1,864	1,833
16	869	1,583	1,691	517	1,306	1,470	0	1,355	1,573	1,772	1,865	1,732
17	771	1,573	1,469	759	1,279	699	0	1,171	1,671	1,774	1,749	1,642
18	699	1,625	1,309	1,298	1,258	524	0	1,167	1,717	1,775	1,644	1,663
19	682	1,746	1,293	1,760	1,197	992	0	1,152	1,716	1,774	1,638	1,691
20	746	1,753	1,316	1,768	1,045	1,169	0	1,092	1,717	1,776	1,690	1,756
21	816	1,749	1,598	1,768	809	1,352	213	1,150	1,724	1,778	1,802	1,871
22	1,052	1,695	1,726	1,769	749	1,305	501	1,159	1,731	1,780	1,799	1,747
23	1,542	1,730	1,732	1,768	992	1,137	267	1,156	1,730	1,777	1,802	1,890
24	1,551	1,729	1,713	1,710	1,201	930	219	1,052	1,740	1,770	1,789	1,889
25	1,502	1,737	1,736	1,579	1,167	742	295	860	1,752	1,676	1,797	1,936
26	1,545	1,735	1,737	1,584	1,215	441	79.0	523	1,743	1,792	1,816	1,836
27	1,295	1,736	1,717	1,620	1,553	151	11.0	278	1,736	1,753	1,817	1,891
28	1,145	1,734	1,658	1,557	1,518	59.0	0	250	1,737	1,759	1,824	1,890
29	1,156	-----	1,676	1,458	1,263	50.0	0	185	1,624	1,756	1,824	1,890
30	1,304	-----	1,681	1,448	1,149	219	103	255	691	1,765	1,820	1,851
31	1,637	-----	1,592	-----	1,166	-----	298	731	-----	1,766	-----	1,868
TOTAL	37,645	46,457	51,678	47,090	39,523	29,634.0	2,451.0	24,028	45,387	50,981	54,202	56,217
MEAN	1,214	1,659	1,667	1,570	1,275	988	79.1	775	1,513	1,645	1,807	1,813
MAX	1,637	1,753	1,740	1,769	1,553	1,476	501	1,514	1,752	1,792	1,866	1,936
MIN	682	1,568	1,293	517	749	50.0	0	132	691	174	1,638	1,412
AC-FT	74,669	92,147	102,503	93,403	78,394	58,779	4,862	47,660	90,025	101,121	107,510	111,506
YEAR 1997	MAX	1,936	MIN	0	AC-FT	962,579						

## PLATTE RIVER BASIN

## PLATTE RIVER below Tri-County Diversion Dam, 00229000 - 1997

LOCATION.--SW1/4SW1/4 Sec. 10-13-29 W. near North Platte, Lincoln County, Lat. 41° 06' 26", Long. 100° 38' 06", on left bank 2.1 miles downstream from Tri-County Diversion Dam, 6.9 miles east of North Platte on Highway 30 then 0.25 mile south and 0.4 mile west on trail road.

DRAINAGE AREA.--Not determined.

GAGE.--Continuous stage recorder. Elevation of gage approximately 2,750 feet from topographic map.

PERIOD OF RECORD.--Partial year record 1958 - 1966, 1969 - 1992, Continuous record 1993 - present

REMARKS.--E indicates estimated daily discharge. Estimated records January 1-February 4, June 6-September 15. Records good, except estimated records poor.

EXTREMES FOR CURRENT YEAR.--Peak discharge estimated 14,500 cubic feet per second estimated June 21, gage height unknown; minimum daily discharge 50 cubic feet per second February 7.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	460E	110E	274	288	132	250	6,400E	1,750E	1,100E	1,830	1,050	893
2	300E	90E	274	322	122	314	5,000E	1,700E	890E	1,820	1,210	916
3	140E	80E	272	326	130	435	4,200E	2,800E	800E	1,860	1,350	924
4	100E	70E	258	318	121	552	4,200E	2,650E	720E	1,900	1,430	852
5	70E	53	262	301	114	538	2,700E	3,100E	570E	1,850	1,370	830
6	70E	51	254	277	124	700E	880E	3,200E	430E	1,510	1,130	792
7	70E	50	241	272	131	1,000E	1,180E	2,800E	450E	1,280	1,010	1,020
8	60E	51	284	264	127	1,700E	1,700E	2,900E	440E	1,130	914	1,170
9	60E	72	310	275	136	2,400E	1,900E	2,700E	510E	681	786	1,070
10	60E	54	319	304	166	3,000E	2,100E	2,600E	410E	269	814	1,100
11	200E	56	374	323	202	3,800E	2,350E	3,400E	440E	348	928	1,080
12	270E	59	417	332	225	4,500E	2,500E	3,600E	480E	670	956	1,280
13	390E	58	380	378	204	6,300E	2,600E	3,500E	560E	882	892	1,710
14	450E	65	397	429	153	8,100E	2,700E	3,600E	910E	594	876	1,840
15	400E	71	376	426	134	10,800E	2,500E	3,400E	950E	360	1,280	1,380
16	440E	82	396	361	138	13,000E	2,350E	3,000E	918	310	1,590	1,080
17	310E	94	398	342	129	14,000E	2,150E	2,900E	920	237	1,690	901
18	380E	94	394	333	128	14,000E	2,100E	2,800E	1,030	246	1,660	856
19	370E	89	412	332	123	13,000E	2,000E	2,600E	1,050	163	1,340	794
20	270E	110	429	301	122	13,500E	1,800E	2,200E	942	123	1,180	751
21	150E	84	395	297	124	14,500E	1,850E	1,900E	914	234	1,060	741
22	100E	82	355	267	128	14,000E	1,750E	1,800E	1,020	726	1,060	760
23	80E	86	309	236	203	12,200E	1,600E	1,900E	1,090	840	1,030	749
24	80E	175	293	223	303	10,600E	1,850E	2,100E	1,040	860	1,010	805
25	80E	182	299	202	336	10,000E	1,850E	2,000E	1,000	1,100	1,010	828
26	160E	177	237	188	416	11,200E	2,000E	1,900E	1,070	985	1,020	1,020
27	140E	176	248	186	472	11,600E	2,200E	1,750E	1,160	998	1,020	1,200
28	290E	252	222	176	458	11,600E	2,000E	1,750E	1,360	1,180	962	1,220
29	360E	-----	250	170	472	10,800E	1,650E	1,800E	1,560	1,130	949	1,370
30	360E	-----	242	168	388	8,400E	1,650E	1,850E	1,690	981	916	1,290
31	300E	-----	264	-----	300	-----	1,700E	1,450E	-----	932	-----	1,170
TOTAL	6,970	2,673	9,835	8,617	6,461	226,789	73,410	77,400	26,424	28,029	33,493	32,392
MEAN	225	95.5	317	287	208	7,560	2,368	2,497	881	904	1,116	1,045
MAX	460	252	429	429	472	14,500	6,400	3,600	1,690	1,900	1,690	1,840
MIN	60	50	222	168	114	250	880	1,450	410	123	786	741
AC-FT	13,820	5,300	19,510	17,090	12,820	449,800	145,600	153,500	52,410	55,600	66,430	64,250
YEAR 1997	TOTAL	532,493	MEAN	1,459	MAX	14,500	MIN	50	AC-FT	1,056,000		

# PLATTE RIVER BASIN

**PLATTE RIVER at Brady, 06766000 - 1997**

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 2,639.19 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.

E indicates estimated daily discharge. Estimated records January 1-February 18, February 21-25, May 15-16, July 10-11. Records fair, 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 14,800 cubic feet per second June 21, combined channel flow; minimum daily discharge 115 cubic feet per second on May 20-21, combined channel flow.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	578E	569E	365	361	257	321	6,520	1,840	1,180	2,850	1,110	801
2	477E	468E	367	440	224	321	5,150	1,760	949	2,910	1,400	827
3	627E	429E	382	514	205	440	4,330	2,890	852	2,940	1,630	840
4	528E	415E	345	500	200	578	4,390	2,740	739	3,020	1,850	791
5	374E	366E	334	446	181	654	2,900	3,230	594	3,050	1,790	729
6	267E	311E	325	391	161	763	903	3,240	489	2,550	1,450	715
7	171E	258E	328	351	181	1,100	1,220	2,910	502	2,200	1,210	778
8	156E	209E	322	334	187	1,830	1,850	2,960	498	1,860	1,080	1,100
9	162E	161E	402	343	200	2,530	1,990	2,820	544	1,330	906	1,010
10	192E	142E	409	383	202	3,130	2,230E	2,700	525	597	777	1,020
11	232E	145E	452	403	257	3,940	2,430E	3,510	488	511	880	1,030
12	207E	147E	511	419	287	4,600	2,640	3,690	524	748	1,020	956
13	184E	153E	533	509	295	6,370	2,760	3,600	556	1,370	1,100	1,380
14	229E	163E	457	601	233	8,210	2,850	3,730	718	1,040	931	2,180
15	232E	175E	499	586	176E	11,000	2,580	3,490	1,020	695	1,040	1,960
16	284E	171E	510	509	159E	13,200	2,450	3,070	1,140	542	1,950	1,420
17	349E	191E	501	457	147	14,100	2,240	2,960	1,130	463	2,060	1,070
18	388E	227E	505	440	131	14,000	2,180	2,910	1,180	398	2,060	927
19	447E	224	507	434	116	13,100	2,050	2,700	1,260	335	1,680	854
20	509E	224	522	400	115	13,600	1,870	2,310	1,210	268	1,390	764
21	633E	233E	507	396	115	14,800	1,920	1,990	1,200	254	1,200	703
22	584E	240E	426	369	119	14,100	1,820	1,920	1,370	469	1,090	741
23	438E	245E	400	348	145	12,400	1,670	2,030	1,520	800	1,060	735
24	246E	257E	390	313	286	10,800	1,900	2,200	1,640	833	1,040	778
25	217E	260E	365	303	324	10,200	1,920	2,110	1,560	1,110	953	789
26	203E	265	336	298	448	11,400	2,090	1,990	1,620	1,080	963	820
27	245E	251	309	293	488	11,700	2,260	1,820	1,820	999	958	1,160
28	287E	271	282	285	536	11,700	2,100	1,820	2,100	1,260	887	1,260
29	550E	-----	286	278	508	10,900	1,720	1,840	2,360	1,420	873	1,360
30	766E	-----	320	277	508	8,670	1,710	1,900	2,740	1,170	823	1,400
31	645E	-----	311	-----	390	-----	1,810	1,510	-----	1,070	-----	1,300
TOTAL	11,407	7,170	12,508	11,981	7,781	230,457	76,453	80,190	34,028	40,142	37,161	32,198
MEAN	368	256	403	399	251	7,682	2,466	2,587	1,134	1,295	1,239	1,039
MAX	766	569	533	601	536	14,800	6,520	3,730	2,740	3,050	2,060	2,180
MIN	156	142	282	277	115	321	903	1,510	488	254	777	703
AC-FT	22,630	14,220	24,810	23,760	15,430	457,100	151,600	159,100	67,490	79,620	73,710	63,860
YEAR 1997	TOTAL	581,476	MEAN	1,593	MAX	14,800	MIN	115	AC-FT	1,153,000		



## PLATTE RIVER BASIN

## THIRTY MILE CANAL from Platte River, 00141000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	76	245	299	71			
2					0	76	268	298	2.8			
3					0	76	279	297	0			
4					0	76	284	295	0			
5					0	76	294	279	0			
6					0	75	293	254	0			
7					0	75	298	254	0			
8					0	89	298	253	0			
9					0	99	298	253	0			
10					0	98	300	253	0			
11					0	98	301	203	0			
12					0	100	305	168	0			
13					0	98	301	160	0			
14					0	83	302	134	0			
15					0	85	300	122	0			
16					0	96	298	122	0			
17					0	100	300	121	0			
18					0	99	303	141	0			
19					48	107	303	157	0			
20					75	111	305	181	0			
21					75	120	305	216	0			
22					75	121	305	230	0			
23					76	121	306	238	0			
24					76	141	315	244	0			
25					76	151	303	246	0			
26					77	165	303	245	0			
27					76	173	305	248	0			
28					74	179	304	242	0			
29		-----			76	188	300	205	0			
30		-----			77	215	300	187	0			
31		-----		-----	76	-----	300	187	-----			
TOTAL					957	3,367	9,221	6,732	73.8			
MEAN					30.9	112	297	217	2.46			
MAX					77	215	315	299	71			
MIN					0	75	245	121	0			
AC-FT					1,900	6,680	18,290	13,350	146			
YEAR 1997	MAX	315	MIN	0	AC-FT	40,370						

# PLATTE RIVER BASIN

**Gothenburg Canal from Platte River, 00057000 - 1997**

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 FOR 1997

Day.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	60	99	280	339	217			
2				0	39	101	292	339	177			
3				0	38	102	309	337	147			
4				0	37	102	335	337	116			
5				0	37	102	338	339	60			
6				0	37	102	340	333	6.7			
7				0	38	102	339	324	0			
8				0	38	100	339	324	0			
9				0	39	99	339	324	0			
10				0	41	96	338	324	0			
11				0	43	100	336	302	0			
12				0	57	104	340	257	0			
13				0	70	109	338	231	0			
14				0	70	101	330	198	0			
15				0	70	112	330	160	0			
16				0	70	109	333	157	0			
17				0	70	110	336	156	0			
18				0	70	108	337	158	0			
19				0	70	105	334	179	0			
20				0	71	111	336	201	0			
21				0	71	111	338	247	0			
22				0	72	105	337	248	0			
23				0	73	111	339	249	0			
24				0	73	116	351	267	0			
25				0	74	125	341	285	0			
26				0	73	135	336	289	0			
27				0	74	150	341	287	0			
28				0	83	165	345	276	0			
29				3.2	113	186	339	265	0			
30		-----		55	99	204	340	253	0			
31		-----		-----	98	-----	339	246	-----			
TOTAL				58.2	1,968	3,482	10,345	8,231	723.7			
MEAN				1.94	63.5	116	334	266	24.1			
MAX				55	113	204	351	339	217			
MIN				0	37	96	280	156	0			
AC-FT				115	3,900	6,910	20,520	16,330	1,440			
YEAR 1997	MAX	351	MIN	0	AC-FT	49,210						

## PLATTE RIVER BASIN

BUFFALO CREEK (B-1) RESERVOIR SUPPLY CANAL from Platte River, 00019500 - 1997

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 FOR 1997

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

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No water diverted in 1997

# PLATTE RIVER BASIN

**SIX MILE CANAL from Platte River, 00134000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	0	3.1	11	14	9.9			
2				0	0	2.8	12	11	9.8			
3				0	0	2.0	8.9	12	8.8			
4				0	0	1.4	7.5	15	.35			
5				0	0	1.9	6.0	16	.24			
6				0	0	4.1	.30	11	.18			
7				0	0	3.9	.04	6.5	.06			
8				0	0	3.8	4.3	.93	0			
9				0	0	4.0	20	.72	0			
10				0	0	4.6	25	5.3	0			
11				0	0	4.5	22	4.8	0			
12				0	0	4.5	24	2.1	0			
13				0	0	7.3	19	2.2	0			
14				0	0	10	22	2.3	0			
15				0	0	15	22	2.2	0			
16				0	0	14	23	2.0	0			
17				0	0	15	20	1.8	0			
18				0	0	15	17	2.0	0			
19				0	0	14	18	2.0	0			
20				0	0	14	17	1.8	0			
21				0	0	8.6	17	1.7	0			
22				0	0	6.7	18	1.5	0			
23				0	0	6.4	18	3.6	0			
24				0	0	5.9	20	9.8	0			
25				0	.24	5.5	23	10	0			
26				0	.38	5.6	23	10	0			
27				0	.23	7.3	24	10	0			
28				0	1.6	14	24	10	0			
29		-----		0	4.0	13	23	10	0			
30		-----		0	3.8	12	20	10	0			
31		-----		-----	3.5	-----	18	10	-----		-----	
TOTAL				0	13.75	229.9	527.04	202.25	29.33			
MEAN				0	.44	7.66	17.0	6.52	.98			
MAX				0	4.0	15	25	16	9.9			
MIN				0	0	1.4	.04	.72	0			
AC-FT				0	27	456	1,050	401	58			
YEAR 1997	MAX	25	MIN	0	AC-FT	1,990						

## PLATTE RIVER BASIN

COZAD CANAL from Platte River, 00033000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	42	201	259	51			
2					0	42	237	255	0			
3					0	42	249	259	0			
4					0	42	263	248	0			
5					0	42	242	252	0			
6					0	42	57	249	0			
7					0	48	156	235	0			
8					0	53	264	229	0			
9					0	54	271	229	0			
10					0	51	259	229	0			
11					0	47	257	201	0			
12					0	44	266	164	0			
13					0	44	275	146	0			
14					0	36	259	135	0			
15					0	31	255	110	0			
16					0	40	256	102	0			
17					0	53	256	101	0			
18					0	68	261	100	0			
19					0	72	259	131	0			
20					26	82	260	176	0			
21					42	74	261	179	0			
22					58	69	262	212	0			
23					56	70	258	220	0			
24					39	70	262	221	0			
25					39	77	260	222	0			
26					39	91	259	221	0			
27					39	118	260	221	0			
28					39	155	256	217	0			
29					41	156	259	187	0			
30					42	164	263	154	0			
31					42	164	259	152	0			
TOTAL					502	2,019	7,662	6,016	51			
MEAN					16.2	67.3	247	194	1.70			
MAX					58	164	275	259	51			
MIN					0	31	57	100	0			
AC-FT					996	4,000	15,200	11,930	101			
YEAR 1997	MAX	275	MIN	0	AC-FT	32,230						

# PLATTE RIVER BASIN

**ORCHARD ALFALFA CANAL from Platte River, 00117000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	10	70	69	38			
2					0	12	68	66	36			
3					0	14	72	70	36			
4					0	14	71	70	24			
5					0	13	68	72	11			
6					0	14	22	66	13			
7					0	17	18	63	11			
8					0	18	52	59	8.3			
9					0	20	70	49	3.9			
10					0	17	73	49	4.1			
11					0	19	74	47	3.4			
12					0	15	81	51	2.7			
13					0	17	79	40	2.2			
14					0	19	78	32	1.8			
15					0	14	78	31	7.3			
16					0	13	78	29	10			
17					0	9.2	77	28	11			
18					0	9.1	75	36	11			
19					0	8.4	75	36	8.8			
20					0	14	75	28	6.7			
21					0	26	76	34	6.4			
22					2.1	31	75	36	6.9			
23					5.1	32	74	37	7.7			
24					5.0	35	79	47	8.6			
25					6.6	38	78	49	8.3			
26					8.5	47	73	55	7.9			
27					8.5	52	76	57	7.7			
28					7.1	61	74	62	7.9			
29					8.2	61	71	55	8.4			
30		-----			10	65	75	47	4.4			
31		-----		-----	11	-----	72	42	-----		-----	
TOTAL					72.1	734.7	2,177	1,512	324.4			
MEAN					2.33	24.5	70.2	48.8	10.8			
MAX					11	65	81	72	38			
MIN					0	8.4	18	28	1.8			
AC-FT					143	1,460	4,320	3,000	643			
YEAR 1997	MAX	81	MIN	0	AC-FT	9,560						

# PLATTE RIVER BASIN

DAWSON COUNTY CANAL from Platte River, 00037000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	102	436	495	375			
2					0	114	482	496	347			
3					0	126	470	497	319			
4					0	128	377	487	320			
5					28	127	352	486	280			
6					84	127	117	471	240			
7					79	128	172	454	196			
8					84	128	354	456	169			
9					85	130	454	457	170			
10					84	123	514	457	170			
11					83	120	514	333	108			
12					83	120	511	239	0			
13					82	124	508	244	0			
14					83	125	500	243	0			
15					83	108	485	242	0			
16					82	97	484	240	0			
17					82	98	498	240	0			
18					81	113	507	237	0			
19					80	144	507	235	0			
20					99	174	506	233	0			
21					110	175	508	232	0			
22					110	173	509	232	0			
23					109	191	509	240	0			
24					108	222	513	284	0			
25					106	234	512	387	0			
26					106	263	513	463	0			
27					106	295	513	497	0			
28					104	312	512	506	0			
29					104	318	512	474	0			
30					103	371	513	449	0			
31					104	-----	506	406	-----			
TOTAL					2,452	5,010	14,368	11,412	2,694			
MEAN					79.1	167	463	368	89.8			
MAX					110	371	514	506	375			
MIN					0	97	117	232	0			
AC-FT					4,860	9,940	28,500	22,640	5,340			
YEAR 1997	MAX	514	MIN	0	AC-FT	71,280						

# PLATTE RIVER BASIN

## PLATTE RIVER near Cozad, 06766500 - 1997

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.

E indicates estimated daily discharge. Estimated records January 1-7, 10-30, February 2-3, February 18-June 9, August 1-2, September 3-22, October 26-27, November 10, 12-December 31. Records 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 8,480 cubic feet per second June 22, combined channel flow; minimum daily discharge 30 cubic feet per second May 21, combined channel flow.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	733E	648	436E	435E	335E	194E	4,070	331E	637	2,080	1,380	1,150E
2	738E	608E	512E	530E	370E	155E	2,840	263E	676	2,230	1,510	1,140E
3	887E	772E	521E	596E	332E	136E	1,990	458	562E	2,260	1,750	1,150E
4	749E	724	506E	652E	302E	202E	1,550	1,200	497E	2,310	1,960	1,160E
5	545E	559	475E	642E	226E	333E	1,400	1,310	433E	2,310	2,090	1,120E
6	439E	344	464E	589E	167E	383E	840	2,020	475E	2,260	1,950	1,080E
7	364E	257	457E	525E	159E	534E	370	1,970	464E	1,980	1,670	1,060E
8	342	221	448E	481E	159E	825E	371	1,800	430E	1,770	1,510	1,210E
9	330	199	455E	460E	165E	1,330E	291	1,660	392E	1,580	1,330	1,380E
10	275E	176	509E	472E	177E	1,860	289	1,490	403E	1,160	1,160E	1,280E
11	331E	173	517E	498E	183E	2,280	264	1,960	458E	706	1,110	1,310E
12	296E	160	560E	488E	216E	3,060	392	2,350	532E	856	1,190E	1,260E
13	263E	140	625E	506E	259E	3,750	810	2,360	561E	1,220	1,280E	1,280E
14	327E	141	636E	582E	234E	4,800	870	2,520	567E	1,430	1,290E	1,900E
15	332E	155	611E	673E	216E	5,860	792	2,520	722E	1,100	1,140E	2,140E
16	406E	173	625E	700E	185E	6,800	518	2,360	885E	836	1,590E	1,750E
17	499E	188	626E	637E	152E	7,500	307	2,220	960E	730	1,930E	1,400E
18	555E	199	608E	591E	128E	8,010	136	2,260	986E	646	2,060E	1,230E
19	639E	224E	601E	561E	112E	7,840	139	2,180	1,030E	575	1,880E	1,160E
20	728E	387E	607E	556E	50E	7,620	127	1,930	1,060E	501	1,630E	1,100E
21	905E	404E	611E	542E	30E	8,080	142	1,500	1,020E	428	1,480E	1,020E
22	835E	392E	575E	524E	34E	8,380	207	1,320	1,090E	414	1,380E	990E
23	626E	355E	541E	506E	66E	8,060	159	1,210	1,170	819	1,360E	1,030E
24	352E	343E	516E	471E	97E	7,420	182	1,250	1,310	1,120	1,330E	1,040E
25	310E	367E	497E	450E	116E	6,530	427	1,160	1,260	1,350	1,290E	1,080E
26	290E	421E	510E	434E	175E	6,160	440	956	1,210	1,520E	1,240E	1,080E
27	350E	408E	478E	430E	287E	6,370	564	756	1,290	1,440E	1,260E	1,210E
28	410E	390E	469E	428E	339E	6,200	652	660	1,430	1,450	1,240E	1,430E
29	478E	-----	434E	427E	347E	5,890	472	719	1,610	1,720	1,200E	1,520E
30	755E	-----	451E	325E	341E	5,300	352	799	1,850	1,690	1,190E	1,650E
31	716	-----	439E	-----	289E	-----	320	856	-----	1,460	-----	1,620E
TOTAL	15,805	9,528	16,320	15,711	6,248	131,862	22,283	46,348	25,970	41,951	44,380	39,930
MEAN	510	340	526	524	202	4,395	719	1,495	866	1,353	1,479	1,288
MAX	905	772	636	700	370	8,380	4,070	2,520	1,850	2,310	2,090	2,140
MIN	263	140	434	325	30	136	127	263	392	414	1,110	990
AC-FT	31,350	18,900	32,370	31,160	12,390	261,500	44,200	91,930	51,510	83,210	86,030	79,200
YEAR 1997	TOTAL	416,336	MEAN	1,141	MAX	8,380	MIN	30	AC-FT	825,800		



## PLATTE RIVER BASIN

## PLATTE RIVER near Overton, 06768000 - 1997

LOCATION.--NE1/4NW1/4 Sec. 12-8-20 W., Dawson County, Lat. 40° 40' 57", Long. 99° 32' 27", on left bank 25 feet upstream from county highway bridge, 4 miles south of Overton, and 4 miles downstream from Plum Creek.

DRAINAGE AREA.--57,700 square miles, approximately 52,900 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum 2,297.83 feet above sea level.

PERIOD OF RECORD.--October 1914 - present, monthly discharges only for some periods, published by USGS in WSP 1310. Published as "near Elm Creek" 1914 - 1915.

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

E indicates estimated daily discharge. Estimated discharges January 15-19, May 17-19, June 20-25. Records good, except estimated records fair.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 37,600 cubic feet per second June 5, 1935, gage height 6.25 feet, datum then in use. Minimum daily discharge 2.0 cubic feet per second August 31, 1942.

EXTREMES FOR CURRENT YEAR.--Peak discharge 11,000 cubic feet per second June 19, gage height 5.38 feet; minimum daily discharge 530 cubic feet per second July 20.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1,900	2,230	2,120	1,960	1,800	1,430	5,210	694	2,100	2,090	3,120	3,400
2	1,900	2,210	2,260	1,910	1,800	1,410	3,690	766	2,020	2,430	3,000	3,420
3	2,140	2,230	2,290	1,990	1,690	1,440	2,510	770	2,130	3,400	3,150	3,500
4	2,340	2,220	2,270	2,140	1,650	1,490	1,820	906	2,090	3,290	3,360	3,640
5	2,120	2,220	2,240	2,140	1,690	1,500	1,610	987	2,100	3,300	3,560	3,570
6	1,950	2,120	2,180	2,110	1,630	1,520	1,420	1,260	2,250	2,690	3,560	3,440
7	1,900	1,960	2,160	2,140	1,560	1,470	1,010	1,470	2,450	3,030	3,460	3,350
8	1,930	1,940	2,140	2,120	1,470	1,500	782	1,440	2,450	2,920	3,300	3,290
9	1,850	1,840	2,110	1,970	1,420	1,750	721	1,480	2,370	2,540	3,180	3,620
10	1,480	1,820	2,150	1,920	1,470	2,230	711	1,460	2,270	2,580	3,040	3,680
11	1,790	1,860	2,180	1,890	1,500	2,820	662	1,980	2,260	2,270	2,980	3,610
12	1,930	1,840	2,210	2,010	1,470	3,310	633	3,040	2,410	2,440	3,040	3,200
13	1,990	1,790	2,210	2,040	1,530	4,040	680	3,250	2,490	2,530	3,250	3,370
14	1,770	1,780	2,270	2,020	1,530	4,940	653	3,810	2,530	2,910	3,240	3,650
15	1,550E	1,810	2,320	2,010	1,360	5,900	635	4,090	2,550	2,910	3,160	4,740
16	1,500E	1,850	2,270	1,540	1,310	7,150	661	3,860	2,720	2,640	2,970	4,800
17	1,450E	1,870	2,080	1,160	1,300E	8,290	712	3,210	2,840	2,430	3,480	4,050
18	1,400E	1,900	1,870	1,760	1,250E	9,100	630	3,030	2,960	2,390	3,560	3,610
19	1,450E	2,050	1,870	2,050	1,200E	10,300	556	3,040	2,880	2,360	3,950	3,430
20	1,480	2,050	1,890	2,100	1,150	10,000E	530	2,800	2,700	2,350	3,730	3,350
21	1,590	2,010	2,070	2,180	1,110	9,400E	566	2,510	2,630	2,340	3,650	3,400
22	1,690	1,940	2,290	2,250	1,070	9,200E	644	2,290	2,630	2,280	3,450	3,120
23	2,020	1,850	2,370	2,270	1,180	9,000E	678	2,250	2,760	2,360	3,340	3,260
24	2,000	1,830	2,350	2,210	1,400	8,800E	719	2,190	2,820	2,740	3,290	3,320
25	1,760	1,900	2,340	1,990	1,390	8,400E	705	2,050	2,750	2,990	3,280	3,360
26	1,760	1,960	2,270	1,980	1,360	6,670	652	1,670	2,720	3,230	3,220	3,320
27	1,630	1,970	2,230	1,970	1,740	6,160	659	1,350	2,680	3,310	3,230	3,260
28	1,470	2,020	2,090	1,880	1,810	6,490	641	1,280	2,780	3,230	3,300	3,430
29	1,460	-----	2,090	1,740	1,610	6,390	640	1,310	2,940	3,330	3,560	3,680
30	1,640	-----	2,120	1,760	1,410	6,250	697	1,400	2,400	3,530	3,470	3,820
31	2,080	-----	2,030	-----	1,390	-----	678	1,710	-----	3,390	-----	4,080
TOTAL	54,920	55,070	67,340	59,210	45,250	158,350	33,115	63,353	75,680	86,230	99,880	110,770
MEAN	1,772	1,967	2,172	1,974	1,460	5,278	1,068	2,044	2,523	2,782	3,329	3,573
MAX	2,340	2,230	2,370	2,270	1,810	10,300	5,210	4,090	2,960	3,530	3,950	4,800
MIN	1,400	1,780	1,870	1,160	1,070	1,410	530	694	2,020	2,090	2,970	3,120
AC-FT	108,900	109,200	133,600	117,400	89,750	314,100	65,680	125,700	150,100	171,000	198,100	219,700
YEAR 1997	TOTAL	909,168	MEAN	2,491	MAX	10,300	MIN	530	AC-FT	1,803,000		

# PLATTE RIVER BASIN

KEARNEY CANAL from Platte River, 00073000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	259	287	225	336	334	285	13	
2				0	255	279	297	339	329	311	12	
3				0	247	278	302	340	333	314	4.6	
4				0	246	283	304	337	333	303	0	
5				0	243	285	309	346	332	279	0	
6				0	220	289	302	352	333	247	0	
7				29	163	284	294	352	337	211	0	
8				127	158	281	304	353	333	136	0	
9				120	155	294	306	352	333	123	0	
10				112	155	290	309	344	329	107	0	
11				112	156	294	305	340	328	100	0	
12				116	192	294	301	349	331	87	0	
13				137	256	296	301	334	332	137	0	
14				207	282	287	321	334	329	173	0	
15				210	287	189	328	330	325	150	0	
16				187	292	201	327	327	328	139	0	
17				161	291	205	314	319	334	148	0	
18				223	283	188	301	314	339	173	0	
19				209	277	158	288	316	328	167	0	
20				213	270	97	282	311	310	161	0	
21				207	231	81	283	305	309	154	0	
22				203	247	135	321	300	297	148	0	
23				198	282	181	326	293	282	131	0	
24				205	295	177	313	285	278	70	0	
25				220	276	156	310	286	286	27	0	
26				203	281	170	322	301	314	25	0	
27				214	273	178	314	298	310	22	0	
28				270	262	178	316	317	306	18	0	
29		-----		264	261	176	319	320	307	16	0	
30		-----		263	271	172	317	321	295	14	0	
31		-----		-----	287	-----	332	328	-----	14	-----	
TOTAL				4,410	7,653	6,663	9,493	10,079	9,594	4,390	29.6	
MEAN				147	247	222	306	325	320	142	.99	
MAX				270	295	296	332	353	339	314	13	
MIN				0	155	81	225	285	278	14	0	
AC-FT				8,750	15,180	13,220	18,830	19,990	19,030	8,710	59	
YEAR 1997	MAX	353	MIN	0	AC-FT	103,800						

## PLATTE RIVER BASIN

## KEARNEY POWER RETURN to Platte River, 00075000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	221	221	115	218	260	242	25	0
2	0	0	0	0	213	231	185	236	233	258	25	0
3	0	0	0	0	196	231	202	244	255	264	8.0	0
4	0	0	0	0	217	205	201	235	240	233	0	0
5	0	0	0	0	213	214	212	243	242	229	0	0
6	0	0	0	0	175	222	208	249	242	215	0	0
7	0	0	0	0	74	219	198	246	271	178	0	0
8	0	0	0	0	70	211	185	245	256	124	0	0
9	0	0	0	0	70	219	175	239	255	91	0	0
10	0	0	0	0	70	227	173	252	253	82	0	0
11	0	0	0	0	69	225	180	274	261	75	0	0
12	0	0	0	98	73	229	159	267	269	101	0	0
13	0	0	0	81	199	224	174	248	274	72	0	0
14	0	0	0	95	231	233	184	225	252	109	0	0
15	0	0	0	139	239	129	194	216	248	105	0	0
16	0	0	0	129	247	6.2	178	235	235	89	0	0
17	0	0	0	101	229	0	169	212	269	85	0	0
18	0	0	0	164	205	0	163	245	281	99	0	0
19	0	0	0	167	230	54	155	235	269	101	0	0
20	0	0	0	180	231	65	156	264	263	97	0	0
21	0	0	0	189	211	72	158	263	261	92	0	0
22	0	0	0	191	192	73	204	255	220	90	0	0
23	0	0	0	194	243	119	226	246	196	85	0	0
24	0	0	0	202	255	137	195	242	179	81	0	0
25	0	0	0	187	239	108	186	226	199	38	0	0
26	0	0	0	194	209	96	191	218	260	29	0	0
27	0	0	0	188	166	118	194	215	271	28	0	0
28	0	0	0	220	220	122	201	214	267	28	0	0
29	0	-----	0	215	223	115	199	232	265	27	0	0
30	0	-----	0	220	221	110	204	241	264	26	0	0
31	0	-----	0	-----	238	-----	207	248	-----	26	-----	0
TOTAL	0	0	0	3,154	5,889	4,435.2	5,731	7,428	7,510	3,399	58.0	0
MEAN	0	0	0	105	190	148	185	240	250	110	1.93	0
MAX	0	0	0	220	255	233	226	274	281	264	25	0
MIN	0	0	0	0	69	0	115	212	179	26	0	0
AC-FT	0	0	0	6,260	11,680	8,800	11,370	14,730	14,900	6,740	115	0
YEAR 1997	MAX	281	MIN	0	AC-FT	74,590						

# PLATTE RIVER BASIN

**PLATTE RIVER near Odessa, 06770000 - 1997**

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

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

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

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991.  
E indicates estimated daily discharge. Estimated daily discharge January 1 - February 15. Records good except estimated records are poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 10,200 cubic feet per second June 23, gage height 6.54 feet; minimum daily discharge 290 cubic feet per second July 21.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2,050E	2,700E	2,070	2,090	1,700	1,450	5,990	686	1,780	1,870	3,730	3,360
2	2,200E	3,000E	2,010	2,150	1,720	1,380	4,390	777	1,800	1,920	3,590	3,280
3	2,400E	3,200E	2,070	2,220	1,690	1,400	3,110	911	1,750	3,220	3,520	3,220
4	2,500E	3,400E	2,100	2,530	1,660	1,530	2,320	926	1,750	3,520	3,610	3,170
5	2,300E	3,200E	2,140	2,650	1,690	1,510	1,890	1,080	1,710	3,710	3,850	3,060
6	2,100E	3,000E	2,140	2,480	1,660	1,600	1,790	1,370	1,790	3,580	4,010	3,140
7	2,100E	2,800E	2,180	2,450	1,700	1,600	1,280	1,890	2,130	3,330	3,930	3,240
8	2,050E	2,500E	2,250	2,360	1,600	1,530	832	1,940	2,040	3,850	3,720	3,330
9	1,900E	2,450E	2,280	2,300	1,460	1,670	650	1,900	1,970	3,630	3,600	3,580
10	1,600E	2,300E	2,260	2,070	1,470	2,070	584	1,780	1,870	3,510	3,400	3,750
11	1,900E	2,250E	2,240	2,020	1,490	2,520	518	1,930	1,800	3,370	3,310	3,640
12	2,000E	2,200E	2,210	2,160	1,390	2,900	489	3,220	1,800	3,530	3,340	3,320
13	2,100E	2,200E	2,140	2,230	1,260	3,460	462	3,640	1,880	3,330	3,570	3,450
14	1,900E	2,200E	2,050	2,160	1,230	4,340	595	4,030	1,870	3,320	3,630	3,570
15	1,800E	2,100E	2,100	1,940	1,230	5,340	716	4,220	1,880	3,420	3,560	4,180
16	1,700E	2,020	2,140	1,980	1,300	6,570	733	4,230	1,970	3,140	3,360	4,510
17	1,600E	2,050	2,270	957	1,380	7,690	603	3,730	2,070	2,930	3,890	3,940
18	1,550E	2,180	1,960	1,870	1,440	7,950	480	3,460	2,300	2,780	4,100	3,620
19	1,650E	2,310	1,980	1,770	1,270	8,420	381	3,590	2,280	2,540	4,340	3,330
20	1,800E	2,340	2,080	2,000	1,190	9,230	316	3,490	2,210	2,320	4,330	3,170
21	2,000E	2,290	2,250	2,010	1,020	9,450	290	3,180	2,270	2,240	4,180	3,100
22	2,200E	2,270	2,460	1,920	782	9,690	556	2,930	2,340	2,230	4,030	2,940
23	2,350E	2,200	2,480	1,850	806	9,780	684	2,770	2,520	2,290	3,870	2,860
24	2,400E	2,170	2,420	1,830	1,150	9,740	526	2,620	2,660	2,810	3,790	3,080
25	2,250E	2,050	2,270	1,720	1,270	8,740	466	2,370	2,710	3,340	3,810	3,230
26	1,900E	2,060	2,250	1,740	1,370	7,460	608	1,940	2,560	3,330	3,800	3,300
27	1,800E	2,010	2,220	1,800	1,610	6,420	512	1,330	2,570	3,500	3,900	3,370
28	1,800E	2,070	2,080	1,820	1,700	6,500	513	1,080	2,530	3,610	3,910	3,600
29	2,000E	-----	1,910	1,820	1,680	6,400	497	991	2,670	3,680	4,240	3,750
30	2,100E	-----	2,000	1,810	1,490	6,460	438	1,020	2,510	3,900	3,760	3,940
31	2,300E	-----	2,060	-----	1,460	-----	548	1,190	-----	3,910	-----	3,980
TOTAL	62,300	67,520	67,070	60,707	43,868	154,800	33,767	70,221	63,990	97,660	113,680	107,010
MEAN	2,010	2,411	2,164	2,024	1,415	5,160	1,089	2,265	2,133	3,150	3,789	3,452
MAX	2,500	3,400	2,480	2,650	1,720	9,780	5,990	4,230	2,710	3,910	4,340	4,510
MIN	1,550	2,010	1,910	957	782	1,380	290	686	1,710	1,870	3,310	2,860
AC-FT	123,600	133,900	133,000	120,400	87,010	307,000	66,980	139,300	126,900	193,700	225,500	212,300
YEAR 1997	TOTAL	942,593	MEAN	2,582	MAX	9,780	MIN	290	AC-FT	1,870,000		

## PLATTE RIVER BASIN

## WOOD RIVER near Alda, 06772000 - 1997

LOCATION.--NE1/4SE1/4 Sec. 7,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.

E indicates estimated daily discharge. Estimated records January 1 to March 16, October 26 to 31, November 12 to 20, December 2-31. Records good except estimated record poor. Many small pump diversions for irrigation above 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 47 cubic feet per second August 14, gage height 5.65 feet; minimum daily discharge zero September 7-22, 29-October 14, 18-25, November 22-December 1.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4.0E	9.0E	6.0E	6.0	6.2	5.0	6.6	11	3.4	0	4.1	0
2	6.0E	8.2E	7.0E	7.2	5.1	4.3	6.0	18	3.7	0	5.5	.15E
3	9.0E	7.6E	6.4E	8.0	4.4	4.0	4.9	16	2.2	0	4.8	.20E
4	7.0E	7.8E	6.0E	8.1	4.1	4.0	4.9	12	1.2	0	3.8	.30E
5	6.6E	8.0E	6.2E	8.5	3.7	5.9	6.6	8.9	1.0	0	2.9	.80E
6	5.6E	8.4E	5.6E	8.7	2.9	12	7.3	6.5	.39	0	2.1	.76E
7	5.8E	7.6E	6.6E	7.5	3.3	19	8.2	6.2	0	0	2.3	.80E
8	5.4E	8.0E	6.6E	7.0	3.2	9.8	12	5.6	0	0	2.1	1.0 E
9	5.0E	7.4E	6.8E	7.7	2.8	5.6	7.1	10	0	0	1.9	.90E
10	4.2E	7.0E	7.4E	12	2.3	4.2	8.8	13	0	0	2.0	.70E
11	4.2E	8.0E	6.6E	11	2.4	5.4	14	21	0	0	1.9	.70E
12	4.3E	7.6E	6.2E	13	2.0	5.4	14	19	0	0	1.7 E	.80E
13	4.5E	8.4E	6.6E	12	1.6	4.7	12	11	0	0	1.8 E	.74E
14	5.0E	9.0E	6.4E	10	2.9	3.9	11	27	0	0	1.7 E	.70E
15	6.0E	9.0E	7.0E	8.1	3.5	4.0	11	28	0	.94	1.6 E	.80E
16	5.0E	9.4E	7.2E	6.7	3.8	5.4	10	19	0	.87	1.7 E	.76E
17	5.6E	9.6E	6.8	6.0	3.8	4.7	8.5	21	0	.07	1.3 E	.90E
18	6.4E	10 E	8.4	6.4	3.5	4.4	11	12	0	0	1.2 E	.80E
19	7.2E	8.6E	6.9	6.1	3.2	4.6	15	6.3	0	0	1.1 E	.80E
20	7.6E	8.7E	6.1	5.6	3.5	5.0	13	3.3	0	0	.03E	.90E
21	8.0E	8.0E	5.7	7.0	3.8	5.5	12	3.6	0	0	.26	1.0 E
22	8.4E	7.8E	5.7	7.7	3.8	4.9	16	3.2	0	0	0	1.5 E
23	7.4E	7.6E	4.5	8.1	4.6	4.3	16	4.2	0	0	0	1.8 E
24	6.4E	7.4E	4.8	8.6	5.3	4.3	24	3.8	3.3	0	0	1.7 E
25	5.5E	7.0E	3.9	8.0	6.6	4.8	19	2.1	8.7	0	0	1.6 E
26	5.2E	6.2E	3.8	7.6	6.9	5.1	16	3.3	6.1	2.0 E	0	1.8 E
27	5.0E	5.8E	4.3	7.6	11	5.6	14	2.8	2.0	11 E	0	1.9 E
28	4.5E	5.6E	4.2	6.9	7.2	5.5	12	2.4	.57	7.0 E	0	1.8 E
29	5.0E	-----	4.2	6.7	5.9	4.8	11	1.7	0	5.0 E	0	1.9 E
30	6.0E	-----	4.5	6.6	5.5	5.5	14	1.7	0	5.4 E	0	2.1 E
31	7.6E	-----	5.3	-----	5.1	-----	12	2.3	-----	5.0 E	-----	2.0 E
TOTAL	183.4	222.7	183.7	240.4	133.9	171.6	357.9	305.9	32.56	37.28	45.79	32.61
MEAN	5.92	7.95	5.93	8.01	4.32	5.72	11.5	9.87	1.09	1.20	1.53	1.05
MAX	9.0	10	8.4	13	11	19	24	28	8.7	11	5.5	2.1
MIN	4.0	5.6	3.8	5.6	1.6	3.9	4.9	1.7	0	0	0	0
AC-FT	364	442	364	477	266	340	710	607	65	74	91	65
YEAR 1997	TOTAL	1,947.74	MEAN	5.34	MAX	28	MIN	0	AC-FT	3,860		

# PLATTE RIVER BASIN (LOUP RIVER)

SARGENT CANAL from Middle Loup River, 00130000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						0	102	189	123			
2						0	93	161	119			
3						0	103	154	124			
4						0	108	168	124			
5						0	109	195	106			
6						0	110	197	100			
7						0	135	196	86			
8						0	174	162	95			
9						0	229	142	102			
10						0	263	140	102			
11						0	271	81	103			
12						0	154	36	75			
13						0	56	62	0			
14						0	54	71	0			
15						0	52	82	0			
16						0	79	93	0			
17						0	134	94	0			
18						0	186	139	0			
19						0	212	193	0			
20						0	226	232	0			
21						0	263	173	0			
22						25	267	106	0			
23						53	270	99	0			
24						54	252	92	0			
25						68	237	92	0			
26						73	220	101	0			
27						73	217	131	0			
28						73	224	168	0			
29		-----				74	215	165	0			
30		-----				100	216	130	0			
31		-----		-----		-----	207	123	-----		-----	
TOTAL						593	5,438	4,167	1,259			
MEAN						19.8	175	134	42.0			
MAX						100	271	232	124			
MIN						0	52	36	0			
AC-FT						1,180	10,790	8,270	2,500			
YEAR 1997	MAX	271	MIN	0	AC-FT	22,720						

# PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 1 from Middle Loup River, 00090000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	21	28	35	32			
2					0	23	25	38	33			
3					0	24	25	38	25			
4					0	24	25	39	24			
5					0	23	24	39	25			
6					0	18	26	38	23			
7					0	15	35	39	20			
8					0	17	39	42	18			
9					0	16	40	42	16			
10					0	18	40	42	14			
11					0	19	39	34	13			
12					0	19	16	15	13			
13					0	19	11	12	12			
14					0	19	9.3	12	11			
15					0	18	9.0	15	11			
16					0	20	14	19	9.5			
17					0	21	23	21	2.4			
18					0	20	28	27	0			
19					0	19	32	35	0			
20						19	34	35	0			
21					9.6	17	36	25	0			
22					18	16	41	18	0			
23					18	13	40	18	0			
24					18	13	40	19	0			
25					18	17	40	19	0			
26					19	17	40	21	0			
27					18	21	39	24	0			
28					17	28	39	26	0			
29		-----			19	29	39	27	0			
30		-----			20	33	38	27	0			
31		-----		-----	20	-----	38	27	-----		-----	
TOTAL					194.6	596	952.3	868	301.9			
MEAN					6.49	19.9	30.7	28.0	10.1			
MAX					20	33	41	42	33			
MIN					0	13	9.0	12	0			
AC-FT					386	1,180	1,890	1,720	599			
YEAR 1997	MAX	42	MIN	0	AC-FT	5,780						

# PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 1 PUMP from Middle Loup River, 00090200 - 1997

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

GAGE.--Flow Meter

PERIOD OF RECORD.--1987 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
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							5.6	3.2				
9							9.0	0				
10							9.0	0				
11							9.0	0				
12							1.8	0				
13							0	0				
14							0	0				
15							0	0				
16							0	0				
17							0	0				
18							0	0				
19							6.4	0				
20							9.0	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		-----		-----		-----	9.0	0	-----		-----	
TOTAL							148.8	66.2				
MEAN							4.80	2.14				
MAX							9.0	9.0				
MIN							0	0				
AC-FT							295	131				
YEAR 1997	MAX	9.0	MIN	0	AC-FT	426						



# PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 2 from Middle Loup River, 00091000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	25	36	42	34			
2					0	25	36	41	34			
3					0	25	38	42	26			
4					0	25	36	47	25			
5					0	25	33	51	25			
6					0	19	34	54	25			
7					0	18	43	49	22			
8					0	20	46	45	20			
9					0	20	46	47	19			
10					0	21	53	49	17			
11					0	21	62	33	14			
12					0	20	29	19	14			
13					0	20	21	12	15			
14					0	20	23	9.8	16			
15					0	19	22	17	15			
16					0	20	17	22	13			
17					0	20	24	23	5.2			
18					0	18	26	27	0			
19					17	16	35	30	0			
20					26	15	49	32	0			
21					26	14	52	26	0			
22					25	14	55	22	0			
23					25	13	56	23	0			
24					26	16	57	23	0			
25					26	21	54	23	0			
26					26	22	51	28	0			
27					26	27	46	32	0			
28					25	32	46	35	0			
29		-----			25	34	47	36	0			
30		-----			25	39	46	35	0			
31		-----		-----	25	-----	44	33	-----		-----	
TOTAL					323	644	1,263	1,007.8	339.2			
MEAN					10.4	21.5	40.7	32.5	11.3			
MAX					26	39	62	54	34			
MIN					0	13	17	9.8	0			
AC-FT					641	1,280	2,510	2,000	673			
YEAR 1997	MAX	62	MIN	0	AC-FT	7,090						

# PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 3 from Middle Loup River, 00092000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	47	86	132	117			
2					0	47	54	126	115			
3					0	48	58	124	107			
4					0	48	61	122	101			
5					0	47	63	120	95			
6					0	47	70	124	94			
7					0	48	95	120	82			
8					0	48	122	114	62			
9					0	47	142	111	53			
10					0	47	137	109	52			
11					0	47	147	69	52			
12					0	48	88	36	53			
13					0	48	80	33	53			
14					0	48	80	36	53			
15					0	48	78	36	42			
16					0	48	85	35	28			
17					0	48	103	35	9.0			
18					0	48	132	53	0			
19					0	48	139	78	0			
20					58	43	138	92	0			
21					64	41	120	78	0			
22					50	40	133	48	0			
23					49	47	147	46	0			
24					47	50	151	46	0			
25					47	57	142	45	0			
26					46	65	141	50	0			
27					45	77	144	67	0			
28					46	87	149	80	0			
29		-----			47	97	130	84	0			
30		-----			47	115	140	94	0			
31		-----		-----	45	-----	137	107	-----		-----	
TOTAL					591	1,624	3,492	2,450	1,168.0			
MEAN					19.1	54.1	113	79.0	38.9			
MAX					64	115	151	132	117			
MIN					0	40	54	33	0			
AC-FT					1,170	3,220	6,930	4,860	2,320			
YEAR 1997	MAX	151	MIN	0	AC-FT	18,500						

# PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 4 from Middle Loup River, 00093000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	43	78	114	90			
2					0	41	74	112	76			
3					0	40	78	111	67			
4					0	40	80	111	68			
5					0	40	81	112	66			
6					0	43	83	110	65			
7					0	46	98	104	64			
8					0	47	118	97	64			
9					0	47	122	96	61			
10					0	47	119	95	58			
11					0	46	122	80	56			
12					0	46	99	35	57			
13					0	45	101	35	57			
14					0	45	102	34	57			
15					0	45	101	35	59			
16					0	45	101	35	58			
17					0	44	108	38	18			
18					0	47	128	49	0			
19					0	48	129	59	0			
20					0	44	121	80	0			
21					34	41	118	66	0			
22					58	41	116	40	0			
23					49	46	116	40	0			
24					50	50	118	42	0			
25					52	55	121	60	0			
26					53	66	122	74	0			
27					53	69	122	81	0			
28					52	70	123	83	0			
29		-----			49	73	122	82	0			
30		-----			46	91	123	88	0			
31		-----		-----	43	-----	120	91	-----		-----	
TOTAL					539	1,491	3,364	2,289	1,041			
MEAN					17.4	49.7	109	73.8	34.7			
MAX					58	91	129	114	90			
MIN					0	40	74	34	0			
AC-FT					1,070	2,960	6,670	4,540	2,060			
YEAR 1997	MAX	129	MIN	0	AC-FT	17,300						

# PLATTE RIVER BASIN (LOUP RIVER)

FARWELL (SHERMAN FEEDER) CANAL from Middle Loup River, 00047000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	344	170	344	338	373	38		
2				0	355	134	266	326	394	0		
3				0	360	128	332	319	404	0		
4				0	356	118	370	318	412	0		
5				0	353	120	401	316	409	0		
6				0	352	197	405	305	415	0		
7				0	339	275	378	315	413	0		
8				0	349	282	312	335	381	0		
9				0	347	283	250	341	288	0		
10				0	352	273	168	346	253	0		
11				0	356	271	121	407	250	0		
12				0	353	269	224	443	255	0		
13				0	348	270	339	433	255	0		
14				0	347	272	397	423	254	0		
15				0	348	271	404	424	257	0		
16				0	347	262	403	431	253	0		
17				0	351	243	390	423	237	0		
18				0	360	316	282	422	259	0		
19				0	357	329	242	411	260	0		
20				0	342	363	237	394	261	0		
21				95	348	382	198	389	264	0		
22				173	353	385	184	429	262	0		
23				253	354	377	193	431	250	0		
24				322	356	371	150	431	252	0		
25				341	358	352	150	429	254	0		
26				348	355	362	189	417	255	0		
27				346	354	366	241	416	249	0		
28				341	329	375	271	418	247	0		
29				349	273	371	290	400	232	0		
30				344	205	385	293	386	145	0		
31				-----	170	-----	300	381	-----	0	-----	
TOTAL				2,912	10,471	8,572	8,724	11,997	8,693	38		
MEAN				97.1	338	286	281	387	290	1.23		
MAX				349	360	385	405	443	415	38		
MIN				0	170	118	121	305	145	0		
AC-FT				5,780	20,770	17,000	17,300	23,800	17,240	75		
YEAR 1997	MAX	443	MIN	0	AC-FT	102,000						

# PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 4 from Sherman Feeder Canal, 00093200 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1							0	0	2.8			
2							0	0	0			
3							0	0	4.0			
4							0	0	4.0			
5							0	0	0			
6							0	0	0			
7							0	0	0			
8							.60	0	0			
9							18	0	0			
10							18	0	0			
11							19	0	0			
12							7.0	0	0			
13							0	0	0			
14							0	0	0			
15							0	0	0			
16							0	0	0			
17							9.6	0	0			
18							10	0	0			
19							0	0	0			
20							0	0	0			
21							0	0	0			
22							0	0	0			
23							0	0	0			
24							4.6	0	0			
25							10	0	0			
26							0	0	0			
27							0	0	0			
28							0	9.4	0			
29		-----					0	16	0			
30		-----					0	16	0			
31		-----		-----		-----	0	11	-----		-----	
TOTAL							96.80	52.4	10.8			
MEAN							3.12	1.69	.36			
MAX							19	16	4.0			
MIN							0	0	0			
AC-FT							192	104	21			
YEAR 1997	MAX	19	MIN	0	AC-FT	317						

# PLATTE RIVER BASIN (LOUP RIVER)

**MUD CREEK near Sweetwater, 06783500 - 1997**

LOCATION.--NE1/4SE1/4 Sec. 3-12-15 W., Buffalo County, Lat. 41° 02' 15", Long. 98° 59' 35", on right bank 10 feet downstream from bridge on State Highway 2, 0.9 mile southeast of Sweetwater, and 11.6 miles upstream from mouth.

DRAINAGE AREA.--707 square miles, approximately 655 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,013.69 feet above sea level.

PERIOD OF RECORD.--July 1946 - present

REMARKS.--Record published by U. S. Geological Survey up to October 1 1994.

E indicates estimated daily discharge. Estimated records January 1-February 28, March 14-17, April 11-13, October 27-29, November 14-23, December 4-31. Records good, except estimated records poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge estimated 27,000 cubic feet per second June 22, 1947, gage height 23.20 feet. Peak discharge computed 5,600 cubic feet per second June 24, 1968, gage height 20.07 feet; minimum daily discharge zero at times in 1955 & 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharge 209 cubic feet per second July 4, gage height 8.72 feet; minimum daily discharge 2.9 cubic feet per second August 9.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	27E	28E	45	31	33	30	23	6.7	14	16	27	27
2	27E	27E	40	32	36	30	43	5.4	26	17	27	27
3	29E	26E	40	32	39	29	69	8.2	26	17	29	27
4	30E	27E	38	32	37	30	182	7.8	20	16	27	24E
5	28E	29E	36	38	34	54	77	6.4	19	16	26	23E
6	26E	28E	35	36	33	39	45	3.4	15	16	26	22E
7	27E	27E	35	33	32	31	34	3.3	17	17	27	23E
8	24E	26E	35	33	32	28	28	4.1	20	18	28	23E
9	19E	26E	35	32	31	26	24	2.9	20	20	28	22E
10	17E	28E	34	33	30	25	20	6.0	20	19	28	21E
11	18E	30E	35	32E	29	25	19	47	21	18	27	21E
12	19E	32E	34	33E	29	26	18	26	18	30	27	20E
13	18E	30E	34	36E	29	26	29	26	19	41	28	22E
14	19E	33E	30E	39	29	25	156	85	19	36	26E	23E
15	22E	35E	28E	38	28	25	101	101	18	42	24E	22E
16	24E	40E	29E	38	28	25	39	29	18	34	21E	23E
17	26E	45E	32E	37	28	24	24	22	19	25	23E	24E
18	28E	50E	33	37	27	23	17	20	19	22	25E	24E
19	27E	60E	32	35	27	23	14	18	18	22	24E	23E
20	28E	56E	32	34	26	23	9.2	17	17	21	27E	23E
21	26E	58E	32	35	26	32	10	26	19	21	28E	22E
22	24E	54E	31	35	26	28	12	35	18	20	26E	23E
23	23E	52E	31	35	28	30	8.8	23	23	21	27E	21E
24	21E	54E	32	34	29	34	11	22	42	22	26	20E
25	20E	52E	31	34	29	28	10	20	34	35	26	20E
26	20E	50E	31	37	35	25	10	18	41	34	27	21E
27	19E	47E	31	35	40	23	8.8	14	37	29E	28	22E
28	18E	47E	31	34	43	23	8.7	15	21	27E	27	23E
29	20E	-----	31	33	40	21	11	15	17	24E	27	24E
30	22E	-----	32	34	35	22	11	14	16	25	27	22E
31	30E	-----	32	-----	33	-----	7.1	13	-----	27	-----	24E
TOTAL	726	1,097	1,037	1,037	981	833	1,079.6	660.2	651	748	794	706
MEAN	23.4	39.2	33.5	34.6	31.6	27.8	34.8	21.3	21.7	24.1	26.5	22.8
MAX	30	60	45	39	43	54	182	101	42	42	29	27
MIN	17	26	28	31	26	21	7.1	2.9	14	16	21	20
AC-FT	1,440	2,180	2,060	2,060	1,950	1,650	2,140	1,310	1,290	1,480	1,570	1,400
YEAR 1997	TOTAL	10,349.8	MEAN	28.4	MAX	182	MIN	2.9	AC-FT	20,530		

# PLATTE RIVER BASIN (LOUP RIVER)

**SHERMAN RESERVOIR storage in acre-feet - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	52,240	51,290	50,820	49,650	53,210	69,080	69,360	45,580	46,030	55,920	55,170	53,700
2	52,240	51,290	50,820	49,650	53,940	69,360	69,360	45,150	45,580	55,920	54,920	53,700
3	52,240	51,290	50,820	49,420	54,430	69,360	69,080	44,500	45,150	55,920	54,920	53,700
4	52,240	51,290	50,820	49,420	54,920	69,650	69,080	44,070	45,150	55,920	54,670	53,550
5	52,000	51,290	50,820	49,650	55,670	69,650	68,790	43,230	45,370	55,670	54,670	53,550
6	51,770	51,290	50,580	49,420	56,170	69,650	68,790	42,590	45,810	55,670	54,670	53,550
7	51,770	51,290	50,580	49,420	56,930	69,650	68,790	41,950	46,480	55,670	54,670	53,550
8	51,770	51,060	50,580	49,420	57,430	69,650	68,500	41,120	46,920	55,670	54,670	53,210
9	52,000	51,060	50,580	49,420	57,940	69,360	67,930	40,520	47,590	55,420	54,670	53,210
10	52,000	51,060	50,350	49,420	58,460	69,360	66,810	40,110	48,040	55,420	54,430	53,210
11	52,000	51,060	50,350	49,420	58,980	69,360	65,400	39,920	48,270	55,420	54,430	53,210
12	51,770	51,060	50,350	49,420	59,240	69,650	64,310	40,520	48,730	55,420	54,430	53,210
13	51,770	51,060	50,350	49,420	59,750	69,650	62,950	41,130	49,190	55,670	54,430	53,210
14	51,770	51,060	50,350	49,420	60,280	69,650	62,140	41,750	49,650	55,420	54,430	53,210
15	51,770	51,060	50,350	49,190	60,810	69,650	61,610	42,380	49,880	55,420	54,190	52,970
16	51,770	50,820	50,350	49,190	61,340	69,650	60,810	43,000	50,350	55,420	54,190	52,970
17	51,770	50,820	50,110	49,190	61,870	69,360	60,010	43,420	50,580	55,170	54,190	52,970
18	51,770	51,060	50,110	49,190	62,400	69,360	59,240	43,860	50,620	55,170	54,190	52,970
19	51,770	51,060	50,110	49,190	62,940	69,360	58,460	44,500	51,290	55,170	54,190	52,970
20	51,530	51,060	50,110	49,190	63,220	69,080	57,430	44,940	51,530	55,170	54,190	52,970
21	51,530	51,060	50,110	49,190	63,760	69,360	56,420	45,350	51,770	54,920	53,940	52,970
22	51,530	51,060	50,110	49,190	64,310	69,360	55,420	45,810	52,240	54,920	53,940	52,970
23	51,530	51,060	49,880	49,420	64,860	69,360	54,180	46,250	52,720	54,920	53,940	52,970
24	51,530	51,060	49,880	49,650	65,400	69,360	53,210	46,690	53,550	54,920	53,940	52,720
25	51,530	50,820	49,880	50,110	65,960	69,360	52,000	47,310	53,940	55,170	53,940	52,720
26	51,530	50,820	49,880	50,580	66,810	69,360	50,820	47,310	54,180	55,170	53,940	52,720
27	51,530	50,820	49,880	51,270	67,370	69,360	49,880	47,590	54,670	55,170	53,700	52,720
28	51,290	50,820	49,650	51,770	67,650	69,360	49,190	47,300	54,920	55,170	53,700	52,720
29	51,290	-----	49,650	52,240	68,210	69,360	48,040	47,300	55,420	55,170	53,700	52,480
30	51,290	-----	49,650	52,720	68,790	69,080	47,140	46,920	55,670	55,170	53,700	52,720
31	51,290	-----	49,650	-----	69,080	-----	46,480	44,480	-----	55,170	-----	52,480
MAX	52,240	51,290	50,820	52,720	69,080	69,650	69,360	47,590	55,670	55,920	55,170	53,700
MIN	51,290	50,820	49,650	49,190	53,210	69,080	46,480	39,920	45,150	54,920	53,700	52,480
CHANGE	-950	-470	-1,170	3,070	16,360	.1	-22,600	-2,000	11,190	-500	-1,470	-1,220
YEAR 1997			MEAN	54,221	MAX	69,650	MIN	39,920				

# PLATTE RIVER BASIN (LOUP RIVER)

FARWELL "MAIN" CANAL from Sherman Reservoir, 00048000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						0	156	354	331			
2						0	147	322	322			
3						0	165	315	170			
4						0	206	339	115			
5						0	258	382	104			
6						51	272	391	85			
7						124	326	382	79			
8						124	402	373	23			
9						124	460	346	0			
10						124	480	339	0			
11						124	480	141	0			
12						124	458	59	0			
13						127	447	61	0			
14						130	430	61	0			
15						130	424	60	0			
16						151	430	60	0			
17						162	430	60	0			
18						162	442	69	0			
19						176	430	73	0			
20						180	424	83	0			
21						178	442	91	0			
22						178	447	77	0			
23						176	442	71	0			
24						172	442	71	0			
25						170	436	120	0			
26						170	409	172	0			
27						172	404	202	0			
28						174	400	215	0			
29		-----				174	408	270	0			
30		-----				176	400	290	0			
31		-----		-----		-----	378	293	-----		-----	
TOTAL						3,753	11,875	6,142	1,229			
MEAN						125	383	198	41.0			
MAX						180	480	391	331			
MIN						0	147	59	0			
AC-FT						7,440	23,550	12,180	2,440			
YEAR 1997	MAX	480	MIN	0	AC-FT	45,620						



# PLATTE RIVER BASIN (LOUP RIVER)

FARWELL "SOUTH" CANAL from Sherman Reservoir, 00049000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						0	80	217	223			
2						0	76	197	220			
3						0	76	191	139			
4						0	76	204	104			
5						0	83	211	81			
6						33	83	217	70			
7						60	99	205	69			
8						60	153	191	22			
9						60	207	165	0			
10						60	235	158	0			
11						60	259	75	0			
12						60	256	32	0			
13						60	256	26	0			
14						59	253	28	0			
15						59	253	29	0			
16						59	249	29	0			
17						67	241	29	0			
18						70	235	29	0			
19						82	235	29	0			
20						87	235	38	0			
21						87	241	42	0			
22						85	248	42	0			
23						88	251	50	0			
24						89	248	52	0			
25						89	248	95	0			
26						87	232	132	0			
27						85	225	171	0			
28						85	221	207	0			
29		-----				85	223	230	0			
30		-----				85	223	220	0			
31		-----		-----		-----	226	211	-----		-----	
TOTAL						1,801	6,226	3,752	928			
MEAN						60.0	201	121	30.9			
MAX						89	259	230	223			
MIN						0	76	26	0			
AC-FT						3,570	12,350	7,440	1,840			
YEAR 1997	MAX	259	MIN	0	AC-FT	25,200						

# PLATTE RIVER BASIN (LOUP RIVER)

**TURKEY CREEK near Dannebrog, 06784800 - 1997**

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.  
E indicates estimated daily discharge. Estimated records January 5-18, 23-29, November 15-17, December 5-7, 12-13.  
Records good except estimated record 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 618 cubic feet per second September 24, gage height 12.57 feet, minimum daily discharge 8.0 cubic feet per second estimated January 10.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	11	11	11	13	14	13	24	30	27	15	23	13
2	13	10	11	12	15	12	22	26	57	14	21	13
3	12	9.9	11	13	15	12	18	29	59	14	20	13
4	12	9.6	11	13	13	13	18	30	30	14	19	13
5	11 E	8.6	10	14	13	12	18	23	24	13	18	11E
6	12 E	8.6	10	14	13	12	19	26	24	13	17	11E
7	11 E	9.0	11	12	14	12	22	24	36	13	17	11E
8	10 E	9.4	11	12	13	12	24	24	35	14	18	12
9	9.0E	9.2	12	12	12	11	23	21	24	14	18	12
10	8.0E	9.1	11	12	12	11	23	23	20	13	17	12
11	8.6E	9.1	12	15	12	12	28	165	18	13	17	12
12	8.2E	9.0	11	16	12	26	29	73	18	74	17	11E
13	8.8E	8.9	12	15	12	21	27	22	15	78	17	11E
14	9.0E	9.1	12	16	12	13	29	18	13	26	18	12
15	9.6E	8.9	12	20	12	12	25	21	12	19	15E	12
16	10 E	9.9	12	17	12	12	22	21	12	17	14E	12
17	11 E	23	12	16	12	12	23	20	11	16	15E	12
18	12 E	129	12	16	12	12	26	20	11	15	16	12
19	12	98	12	15	11	12	29	19	11	15	16	12
20	11	28	12	14	11	12	32	18	10	15	16	12
21	12	17	13	15	11	28	37	20	10	14	15	11
22	12	12	13	17	11	34	32	19	12	13	15	12
23	10 E	11	12	16	12	15	29	18	102	13	14	12
24	9.0E	11	13	15	13	16	27	17	428	13	14	11
25	10 E	11	13	14	12	15	30	17	94	34	14	12
26	10 E	11	12	14	13	15	33	16	27	25	14	11
27	9.6E	11	12	14	16	15	32	16	21	21	13	11
28	10 E	11	13	14	16	15	29	18	18	24	13	12
29	11 E	-----	13	14	14	14	32	20	16	54	13	11
30	10	-----	13	15	13	15	30	24	15	47	13	11
31	11	-----	12	-----	13	-----	34	28	-----	29	-----	11
TOTAL	323.8	522.3	367	435	396	446	827	866	1,210	712	487	364
MEAN	10.4	18.7	11.8	14.5	12.8	14.9	26.7	27.9	40.3	23.0	16.2	11.7
MAX	13	129	13	20	16	34	37	165	428	78	23	13
MIN	8.0	8.6	10	12	11	11	18	16	10	13	13	11
AC-FT	642	1,040	728	863	785	885	1,640	1,720	2,400	1,410	966	722
YEAR 1997	TOTAL	6,956.1	MEAN	19.1	MAX	428	MIN	8.0	AC-FT	13,800		

**PLATTE RIVER BASIN  
(LOUP RIVER)**

**TAYLOR-ORD CANAL** from North Loup River, 00107000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	59	88	190	140			
2					0	62	78	185	150			
3					0	62	85	185	159			
4					0	61	91	182	159			
5					0	59	89	190	151			
6					0	60	91	198	143			
7					0	59	96	190	140			
8					0	59	127	191	135			
9					0	60	160	191	126			
10					0	61	185	191	98			
11					0	62	191	177	75			
12					0	60	131	152	58			
13					0	61	95	141	55			
14					0	61	95	110	55			
15					0	72	82	96	55			
16					0	72	78	89	53			
17					0	74	110	87	53			
18					0	82	135	87	53			
19					49	93	163	86	55			
20					119	95	182	87	55			
21					54	92	189	90	56			
22					55	94	201	88	56			
23					55	94	208	87	58			
24					56	93	208	86	54			
25					57	96	207	85	53			
26					54	97	205	93	53			
27					55	99	205	109	53			
28					56	102	207	120	52			
29		-----			57	114	207	137	34			
30		-----			60	126	208	139	0			
31		-----		-----	58	-----	196	139	-----		-----	
TOTAL					785	2,341	4,593	4,178	2,437			
MEAN					25.3	78.0	148	135	81.2			
MAX					119	126	208	198	159			
MIN					0	59	78	85	0			
AC-FT					1,560	4,640	9,110	8,290	4,830			
YEAR 1997	MAX	208	MIN	0	AC-FT	28,430						

# PLATTE RIVER BASIN (LOUP RIVER)

TAYLOR-ORD CANAL inlet to Mirdan Canal, 00107100 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	27	97	135	108			
2					0	26	62	132	109			
3					0	26	68	130	110			
4					0	27	79	119	108			
5					0	25	79	115	104			
6					0	25	79	123	97			
7					0	29	76	124	98			
8					0	30	91	127	100			
9					0	32	102	132	101			
10					0	33	112	139	83			
11					0	37	121	140	56			
12					0	37	128	126	39			
13					0	37	88	119	42			
14					0	36	83	82	45			
15					0	44	83	72	51			
16					0	51	69	74	45			
17					0	52	78	71	48			
18					0	54	95	71	44			
19					0	69	105	72	47			
20					34	73	116	72	45			
21					58	75	113	80	46			
22					30	75	111	79	49			
23					31	73	120	77	50			
24					34	75	125	77	50			
25					35	74	131	75	45			
26					35	73	130	69	47			
27					28	79	133	72	46			
28					28	79	133	87	41			
29		-----			30	84	132	99	42			
30		-----			32	90	139	108	17			
31		-----		-----	29	-----	137	110	-----	-----		
TOTAL					404	1,547	3,215	3,108	1,913			
MEAN					13.0	51.6	104	100	63.8			
MAX					58	90	139	140	110			
MIN					0	25	62	69	17			
AC-FT					801	3,070	6,380	6,160	3,790			
YEAR 1997	MAX	140	MIN	0	AC-FT	20,210						

# PLATTE RIVER BASIN (LOUP RIVER)

TAYLOR-ORD CANAL outlet from Mirdan Canal, 00107200 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	0	74	89	74	11		
2					0	0	60	87	69	0		
3					0	0	55	85	68	0		
4					0	18	65	80	68	0		
5					0	27	70	70	72	0		
6					0	26	66	69	69	0		
7					0	28	62	73	79	0		
8					0	28	59	75	87	0		
9					0	28	69	83	85	0		
10					0	30	75	89	80	0		
11					0	32	80	90	54	0		
12					0	33	84	90	32	0		
13					0	33	76	90	29	0		
14					0	33	78	79	36	0		
15					0	35	79	64	38	0		
16					0	31	69	64	39	0		
17					0	31	68	65	39	0		
18					0	34	72	66	38	0		
19					0	44	80	67	40	0		
20					0	50	82	66	41	0		
21					43	53	80	66	43	0		
22					34	54	72	66	44	0		
23					33	55	71	69	44	0		
24					33	55	74	70	46	0		
25					35	54	77	69	44	0		
26					36	54	79	62	42	0		
27					38	57	80	57	43	0		
28					36	56	81	63	45	0		
29		-----			33	64	83	67	45	0		
30		-----			33	70	86	77	42	0		
31		-----		-----	13	-----	88	79	-----	0	-----	
TOTAL					367	1,113	2,294	2,286	1,575	11		
MEAN					11.8	37.1	74.0	73.7	52.5	.35		
MAX					43	70	88	90	87	11		
MIN					0	0	55	57	29	0		
AC-FT					728	2,210	4,550	4,530	3,120	22		
YEAR 1997	MAX	90	MIN	0	AC-FT	15,170						

PLATTE RIVER BASIN  
(LOUP RIVER)

KENT CANAL from North Loup River, 00076500 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
-----												
N O W A T E R D I V E R T E D T H I S Y E A R												

# PLATTE RIVER BASIN (LOUP RIVER)

**CALAMUS RESERVOIR from Calamus River, 06787300 - 1997**

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 FOR 1997**

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	115,600	115,000	115,300	118,900	127,700	128,000	128,000	104,400	94,510	84,500	103,300	117,200
2	115,500	115,000	115,200	119,600	127,900	127,900	128,200	103,500	91,060	84,730	104,000	117,400
3	115,600	115,100	115,200	119,800	127,900	127,900	127,300	102,800	90,400	85,000	104,650	117,600
4	115,400	115,200	115,400	120,100	127,900	128,800	126,600	102,100	89,670	85,480	105,000	117,700
5	115,300	115,200	115,100	120,800	127,900	128,000	126,100	101,200	89,140	85,710	105,700	117,600
6	115,000	115,200	115,200	121,300	127,800	128,000	125,500	100,100	88,900	86,030	106,100	117,500
7	115,000	115,100	115,300	121,400	128,000	128,000	124,900	99,820	88,900	86,780	106,700	117,600
8	115,000	115,100	115,400	121,500	127,900	127,900	124,600	98,900	88,580	87,260	107,100	117,700
9	115,100	115,100	115,500	121,900	127,600	127,900	123,800	97,650	88,420	87,890	107,800	117,900
10	114,800	115,200	115,500	122,400	127,600	127,800	122,700	97,350	88,060	88,420	108,200	117,900
11	114,500	115,100	115,600	122,900	127,600	127,800	121,900	96,450	87,650	88,700	108,900	117,900
12	114,600	115,000	115,700	123,400	127,600	128,000	121,500	96,070	87,060	90,030	109,300	118,000
13	114,500	115,000	115,900	123,600	127,600	127,900	120,800	95,860	87,380	90,600	110,000	118,000
14	114,600	115,200	116,000	123,900	127,600	127,900	120,000	97,260	87,060	91,300	110,600	118,000
15	114,700	115,100	115,900	124,400	127,600	127,500	119,200	97,440	86,700	92,080	110,900	118,100
16	114,700	115,000	115,900	124,900	127,600	127,900	118,600	97,480	86,500	92,790	111,300	118,100
17	114,800	115,000	115,900	125,400	128,100	128,000	118,000	97,140	86,300	93,370	112,100	118,100
18	115,000	115,100	116,000	126,200	128,100	128,000	117,100	96,620	86,110	94,170	112,500	118,100
19	115,100	115,200	115,900	126,700	128,100	128,000	116,200	96,470	85,830	94,970	113,100	118,100
20	115,100	115,400	116,100	126,900	127,500	128,000	115,300	96,030	85,630	95,220	113,700	118,000
21	115,200	115,400	116,300	127,000	127,500	128,100	114,500	95,640	85,440	97,090	114,100	118,000
22	115,200	115,400	116,400	127,400	127,400	127,900	113,500	95,600	85,780	96,710	114,800	117,800
23	114,800	115,200	116,700	127,500	127,500	127,900	112,800	95,430	85,590	97,090	115,300	117,800
24	114,900	115,300	116,900	127,600	127,500	127,900	111,800	95,300	85,590	97,690	115,900	117,900
25	114,600	115,300	117,000	127,500	127,500	127,900	110,900	95,050	85,320	97,760	116,300	118,100
26	114,600	115,500	117,300	127,700	128,000	128,200	109,900	94,590	85,120	99,360	117,100	118,000
27	114,600	115,200	117,500	127,500	128,200	128,200	109,100	94,210	84,960	99,900	117,100	118,000
28	114,600	115,100	118,100	127,600	128,300	128,300	108,100	93,370	84,890	100,800	117,200	118,100
29	114,800	-----	118,300	127,700	128,100	128,200	107,100	92,790	84,770	101,100	117,200	118,100
30	115,000	-----	118,400	127,900	128,200	128,000	106,100	92,250	84,570	101,900	117,200	118,100
31	114,900	-----	118,600	-----	128,200	-----	105,100	91,920	-----	102,600	-----	118,000
MAX	115,600	115,500	118,600	127,900	128,300	128,800	128,200	104,400	94,510	102,600	117,200	118,100
MIN	114,500	115,000	115,100	118,900	127,400	127,500	105,100	91,920	84,570	84,500	103,300	117,200
CHANGE	-400	200	3,500	9,300	300	-200	-22,900	-13,180	-7,350	18,030	14,600	800

YEAR 1997

MEAN 112,523      MAX 128,800      MIN 84,500

# PLATTE RIVER BASIN (LOUP RIVER)

MIRDAN CANAL from Calamus Reservoir, 00100500 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	248	171	462	212			
2					0	246	158	423	216			
3					0	245	195	417	238			
4					0	268	206	426	254			
5					0	273	208	474	228			
6					0	275	211	475	172			
7					0	280	244	472	149			
8					0	283	301	449	122			
9					0	281	406	408	108			
10					0	283	465	400	105			
11					0	285	475	318	102			
12					0	284	384	183	101			
13					0	286	340	115	96			
14					0	286	335	99	94			
15					0	279	336	96	94			
16					0	265	362	114	93			
17					50	264	391	122	93			
18					102	269	403	127	94			
19					119	272	437	132	25			
20					175	270	435	152	0			
21					213	271	463	181	0			
22					281	270	470	141	0			
23					308	270	473	144	0			
24					280	218	470	147	0			
25					275	155	475	188	0			
26					275	155	475	225	0			
27					275	166	473	310	0			
28					275	177	444	282	0			
29		-----			275	189	456	244	0			
30		-----			273	210	466	203	0			
31		-----		-----	259	-----	464	193	-----			
TOTAL					3,435	7,523	11,592	8,122	2,596			
MEAN					111	251	374	262	86.5			
MAX					308	286	475	475	254			
MIN					0	155	158	96	0			
AC-FT					6,810	14,920	22,990	16,110	5,150			
YEAR 1997	MAX	475	MIN	0	AC-FT	65,990						



# PLATTE RIVER BASIN (LOUP RIVER)

## CALAMUS FISH HATCHERY INLET from Calamus Reservoir, 00019800 - 1997

LOCATION.--NE1/4NW1/4 Sec. 6-21-16 W.

GAGE.--Flow meter

PERIOD OF RECORD.--1994 - present

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3.3	3.2	3.4	5.9	5.3	2.1	4.2	5.7	7.0	2.0	3.8	3.3
2	3.3	3.2	3.3	10	4.4	2.1	4.2	5.8	7.0	0	4.1	3.2
3	3.4	3.3	4.6	7.4	4.2	2.2	3.9	5.7	4.8	0	3.8	3.3
4	3.4	3.2	3.7	2.6	4.1	2.2	4.2	5.8	5.0	0	4.3	3.3
5	3.4	3.2	5.9	2.5	3.5	2.0	4.2	5.7	6.8	0	4.0	3.3
6	3.4	3.3	6.1	3.6	2.7	1.2	4.4	6.1	5.3	0	1.8	3.2
7	3.4	3.3	6.3	3.7	2.1	2.1	4.9	6.5	6.4	0	1.7	3.2
8	3.3	3.3	6.3	4.0	2.2	2.6	4.6	6.2	6.7	0	3.3	3.2
9	3.4	3.3	6.3	4.0	3.1	1.9	4.5	6.1	6.8	2.6	3.3	3.3
10	3.3	3.3	6.1	4.0	3.5	1.8	4.2	5.9	6.3	4.7	3.3	3.2
11	3.3	3.3	6.0	3.9	3.5	2.3	4.7	6.2	6.2	6.9	3.3	3.2
12	3.3	3.2	5.9	3.9	3.4	2.4	4.1	5.6	6.2	6.9	3.3	3.2
13	3.3	3.2	5.7	4.4	3.1	2.2	4.1	5.6	6.3	6.9	3.3	3.2
14	3.3	3.3	6.2	4.6	3.0	2.0	4.2	5.6	6.8	6.8	3.3	3.2
15	3.3	3.3	5.3	4.5	6.3	1.8	3.9	5.6	6.5	6.7	3.4	3.3
16	3.2	3.3	6.2	7.0	7.8	2.1	4.0	5.5	7.1	6.3	3.3	3.2
17	3.3	3.3	5.0	10	7.2	1.7	4.4	5.4	5.8	3.6	3.3	3.3
18	3.2	3.3	4.0	13	2.4	1.3	4.5	5.4	4.2	1.9	3.3	3.2
19	3.2	3.3	6.0	13	2.3	1.2	5.4	5.4	3.6	1.9	3.3	3.2
20	3.3	3.4	6.1	14	3.0	1.8	4.8	5.5	2.7	1.8	3.3	3.2
21	3.2	3.3	6.2	13	1.5	2.9	5.1	5.6	2.0	1.8	3.3	3.2
22	3.2	3.3	6.1	12	1.2	6.3	5.0	6.4	2.0	1.8	3.3	3.2
23	3.2	3.3	6.7	11	1.3	8.4	5.0	8.0	2.3	1.9	3.3	3.2
24	3.2	3.4	6.0	7.1	1.3	12	4.9	7.9	2.9	2.5	3.3	3.2
25	3.3	3.3	5.9	5.7	1.3	8.3	4.9	9.8	3.2	2.5	3.3	3.2
26	3.3	3.4	5.3	5.7	1.3	11	4.8	11	3.2	2.4	3.3	3.0
27	3.3	3.3	3.9	5.7	1.2	7.9	5.3	9.4	3.0	2.4	3.3	3.0
28	3.3	3.9	3.5	6.3	1.2	4.6	5.9	6.9	3.0	3.4	3.3	3.0
29	3.3	-----	3.5	6.6	1.6	4.5	5.8	6.9	5.0	5.2	3.3	3.2
30	3.3	-----	3.5	5.8	2.1	4.3	5.8	6.8	9.7	4.0	3.3	3.0
31	3.2	-----	3.5	-----	2.0	-----	5.7	6.9	-----	3.8	-----	3.0
TOTAL	102.1	92.7	162.5	204.9	93.1	109.2	145.6	200.9	153.8	90.7	99.5	98.9
MEAN	3.29	3.31	5.24	6.83	3.00	3.64	4.70	6.48	5.13	2.93	3.32	3.19
MAX	3.4	3.9	6.7	14	7.8	12	5.9	11	9.7	6.9	4.3	3.3
MIN	3.2	3.2	3.3	2.5	1.2	1.2	3.9	5.4	2.0	0	1.7	3.0
AC-FT	203	184	322	406	185	217	289	398	305	180	197	196
YEAR 1997	TOTAL	1,553.9	MEAN	4.26	MAX	14	MIN	0	AC-FT	3,080		

# PLATTE RIVER BASIN (LOUP RIVER)

INLET TO DAVIS CREEK RESERVOIR from Mirdan Canal, 00088500 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	190	77	123	19			
2					0	189	82	138	19			
3					0	189	79	123	22			
4					0	188	68	119	19			
5					0	189	66	105	13			
6					0	190	76	89	11			
7					0	191	79	105	10			
8					0	191	84	117	9.1			
9					0	190	113	130	11			
10					0	188	118	150	14			
11					0	187	110	162	16			
12					0	190	144	89	16			
13					0	195	165	43	16			
14					0	196	160	41	16			
15					0	191	152	42	16			
16					0	193	135	42	11			
17					0	196	103	41	18			
18					0	196	102	31	28			
19					0	195	107	20	27			
20					0	197	116	19	25			
21					0	199	115	19	25			
22					98	197	119	12	24			
23					157	196	124	21	24			
24					187	171	124	24	24			
25					196	118	124	22	23			
26					194	93	116	19	23			
27					191	86	111	13	23			
28					190	80	115	11	22			
29		-----			190	81	105	14	24			
30		-----			189	75	105	19	19			
31		-----		-----	190	-----	107	16	-----		-----	
TOTAL					1,782	5,127	3,401	1,919	567.1			
MEAN					57.5	171	110	61.9	18.9			
MAX					196	199	165	162	28			
MIN					0	75	66	11	9.1			
AC-FT					3,530	10,170	6,750	3,810	1,120			
YEAR 1997	MAX	199	MIN	0	AC-FT	25,380						

# PLATTE RIVER BASIN (LOUP RIVER)

**DAVIS CREEK RESERVOIR from Calamus Reservoir via Mirdan Canal - 1997**

LOCATION.--NW1/4SW1/4 Section 30-17-12 W.

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1992 to present

STORAGE LEVEL	ELEVATION	CONTENT
	(Feet)	(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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	26,330	25,500	24,890	24,040	23,380	24,980	31,110	22,280	15,110	6,090	6,390	6,360
2	26,300	25,470	24,870	24,010	23,360	25,210	30,920	22,040	14,780	6,100	6,390	6,360
3	26,280	25,440	24,850	23,990	23,334	25,480	30,760	21,900	14,250	6,110	6,400	6,360
4	26,240	25,420	24,820	23,960	23,320	25,730	30,670	21,770	13,860	6,120	6,410	6,350
5	26,210	25,400	24,800	23,940	23,300	26,020	30,470	21,500	13,360	6,130	6,410	6,350
6	26,190	25,390	24,880	23,900	23,280	26,350	30,330	21,090	12,700	6,140	6,400	6,340
7	26,170	25,380	24,880	23,880	23,270	26,550	30,230	20,680	12,800	6,130	6,400	6,340
8	26,140	25,360	24,720	23,820	23,240	26,790	29,840	20,370	11,710	6,130	6,400	6,340
9	26,110	25,320	24,690	23,790	23,190	27,040	29,500	20,230	11,170	6,130	6,390	6,340
10	26,080	25,290	24,660	23,780	23,140	27,280	29,020	20,280	10,610	6,180	6,390	6,340
11	26,040	25,260	24,630	23,770	23,110	27,490	28,730	20,410	10,080	6,190	6,390	6,340
12	26,000	25,230	24,600	23,760	23,060	27,830	28,450	20,430	9,570	6,200	6,390	6,340
13	25,950	25,230	24,570	23,750	23,020	28,070	28,340	20,270	9,030	6,280	6,390	6,330
14	25,940	25,180	24,540	23,750	22,980	28,320	28,240	20,130	9,520	6,280	6,390	6,330
15	25,930	25,160	24,520	23,720	22,940	28,590	27,860	19,940	7,920	6,290	6,380	6,330
16	25,890	25,150	24,500	23,690	22,930	28,870	27,470	19,790	7,530	6,290	6,380	6,330
17	25,840	25,130	24,470	23,680	22,910	29,110	27,180	19,600	6,930	6,300	6,370	6,320
18	25,820	25,120	24,460	23,660	22,860	29,350	26,660	19,430	6,420	6,310	6,370	6,320
19	25,800	25,110	24,430	23,650	22,860	28,580	26,280	19,250	6,000	6,310	6,370	6,320
20	25,790	25,100	24,410	23,630	22,740	29,830	26,090	19,030	5,780	6,310	6,370	6,320
21	25,780	25,100	24,390	23,610	22,650	30,180	25,900	18,900	5,430	6,310	6,380	6,320
22	25,760	25,070	24,350	23,590	22,530	30,400	25,480	18,640	5,440	6,300	6,380	6,320
23	25,720	25,030	24,310	23,580	22,720	30,580	25,110	18,210	5,580	6,300	6,370	6,310
24	25,680	25,000	24,250	23,560	22,920	30,810	24,810	17,770	5,720	6,300	6,370	6,310
25	25,640	24,980	24,230	23,540	23,110	30,980	24,330	17,270	5,790	6,290	6,380	6,310
26	25,620	24,960	24,210	23,520	23,370	30,950	23,960	17,210	5,860	6,290	6,380	6,300
27	25,590	24,940	24,190	23,500	23,640	30,990	23,710	16,800	5,900	6,360	6,380	6,290
28	25,560	24,910	24,170	23,480	23,790	31,020	23,520	16,500	5,950	6,370	6,370	6,290
29	25,530	-----	24,140	23,460	24,170	31,060	23,150	16,200	6,000	6,370	6,370	6,280
30	25,510	-----	24,100	23,450	24,460	31,020	22,800	15,700	6,060	6,370	6,370	6,280
31	25,490	-----	24,060	-----	24,690	-----	22,530	15,460	-----	6,380	-----	6,280
MAX	26,330	25,500	24,890	24,040	24,690	31,060	31,110	22,280	15,110	6,380	6,410	6,360
MIN	25,490	24,910	24,060	23,450	22,530	24,980	22,530	15,460	5,430	6,090	6,370	6,280
CHANGE	-820	-580	-850	-610	1,240	6,330	-8,490	-7,070	-9,400	320	-10.0	-90.0

YEAR 1997

MEAN 18,756      MAX 31,110      MIN 5,430

# PLATTE RIVER BASIN (LOUP RIVER)

FULLERTON CANAL from Davis Creek Reservoir, 00054700 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	36	107	230	177			
2					0	36	102	186	216			
3					0	37	102	177	247			
4					0	36	105	219	245			
5					0	35	108	257	267			
6					0	36	109	265	278			
7					0	36	206	249	278			
8					0	37	231	184	277			
9					0	37	255	124	274			
10					0	37	261	112	276			
11					0	37	236	112	276			
12					0	37	190	112	274			
13					0	38	177	111	271			
14					0	38	267	110	268			
15					0	38	279	111	266			
16					0	38	278	111	263			
17					0	38	300	109	260			
18					0	38	277	109	259			
19					21	41	215	110	197			
20					41	50	197	111	156			
21					54	53	253	129	102			
22					62	53	269	171	16			
23					63	54	269	182	0			
24					63	54	281	182	0			
25					63	55	285	181	0			
26					63	48	239	181	0			
27					45	44	214	180	0			
28					36	45	220	179	0			
29		-----			36	50	216	179	0			
30		-----			37	60	216	178	0			
31		-----		-----	37	-----	223	178	-----		-----	
TOTAL					621	1,272	6,687	5,029	5,143			
MEAN					20.0	42.4	216	162	171			
MAX					63	60	300	265	278			
MIN					0	35	102	109	0			
AC-FT					1,230	2,520	13,260	9,980	10,200			
YEAR 1997	MAX	300	MIN	0	AC-FT	37,190						

# PLATTE RIVER BASIN (LOUP RIVER)

## CALAMUS RIVER near Burwell, 06787500 - 1997

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 Virginia Smith Dam.

DRAINAGE AREA.--1,060 square miles, of which 110 square miles contribute directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,253.48 feet above sea level.

PERIOD OF RECORD.--October 1940 - present (non-recording gage up to April 21, 1945).

REMARKS.--Record published by U. S. Geological Survey up to Oct. 1, 1995.  
Records are good for 1997.

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 477 cubic feet per second February 20, gage height 3.41 feet; minimum daily discharge 35 cubic feet per second October 6.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	351	386	384	225	359	289	331	332	352	257	67	274
2	375	396	378	234	408	201	354	346	357	215	65	276
3	398	395	374	232	398	143	352	351	369	169	68	292
4	407	392	371	226	395	201	358	334	343	103	70	296
5	402	391	351	223	397	172	355	325	327	62	68	290
6	365	393	334	222	361	158	361	320	321	35	67	285
7	348	372	343	203	376	158	354	322	345	39	64	284
8	348	358	353	213	398	158	355	318	365	58	63	295
9	346	358	351	214	346	114	358	316	371	56	65	312
10	341	354	355	213	319	76	343	315	370	61	65	326
11	317	355	350	215	331	73	338	314	361	70	65	332
12	292	355	345	215	309	82	356	335	344	78	65	328
13	294	349	342	219	281	77	370	352	376	72	65	323
14	297	372	342	224	262	69	406	349	390	68	65	325
15	295	390	338	225	249	72	376	349	376	66	65	335
16	294	385	345	233	237	69	357	360	339	67	65	339
17	295	381	343	244	240	68	357	366	327	70	65	339
18	317	382	310	287	248	65	325	366	329	65	65	341
19	339	409	349	333	233	61	312	363	329	64	66	352
20	350	455	310	367	171	59	309	360	329	65	67	357
21	404	466	271	389	120	61	309	364	329	67	66	359
22	427	467	266	387	84	63	309	372	339	67	66	352
23	403	415	262	395	69	66	322	380	361	61	67	344
24	378	401	266	415	67	70	333	377	371	73	66	340
25	345	408	266	419	69	71	329	395	367	73	66	341
26	322	403	243	419	67	89	337	405	361	67	213	342
27	323	404	230	424	124	97	338	380	357	62	307	335
28	327	396	224	370	245	96	337	363	350	63	308	330
29	327	-----	214	362	284	160	326	352	343	67	308	334
30	373	-----	216	376	287	265	325	345	325	68	302	331
31	382	-----	225	-----	288	-----	324	346	-----	69	-----	335
TOTAL	10,782	10,988	9,651	8,723	8,022	3,403	10,616	10,872	10,523	2,477	3,084	10,044
MEAN	348	392	311	291	259	113	342	351	351	79.9	103	324
MAX	427	467	384	424	408	289	406	405	390	257	308	359
MIN	292	349	214	203	67	59	309	314	321	35	63	274
AC-FT	21,390	21,790	19,140	17,300	15,910	6,750	21,060	21,560	20,870	4,910	6,120	19,920
YEAR 1997	TOTAL	99,185	MEAN	272	MAX	467	MIN	35	AC-FT	196,700		

# PLATTE RIVER BASIN (LOUP RIVER)

**BURWELL-SUMTER CANAL from North Loup River; 00108000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	27	67	104	80			
2					0	34	67	99	88			
3					0	38	73	98	87			
4					0	37	76	98	83			
5					51	42	77	76	76			
6					84	40	77	93	76			
7					54	44	90	100	75			
8					51	43	110	100	65			
9					50	43	114	97	49			
10					50	43	114	98	41			
11					52	45	115	90	41			
12					46	46	86	67	42			
13					34	45	58	66	43			
14					29	44	53	42	44			
15					21	44	52	34	24			
16					37	43	59	33	0			
17					56	44	69	32	0			
18					36	45	103	32	0			
19					34	48	104	35	0			
20					32	49	98	51	0			
21					32	49	100	48	0			
22					31	47	104	33	0			
23					31	38	105	33	0			
24					30	46	106	34	0			
25					30	54	106	40	0			
26					29	58	108	51	0			
27					29	58	108	57	0			
28					27	62	112	58	0			
29		-----			27	66	115	71	0			
30		-----			26	73	114	68	0			
31		-----		-----	27	-----	106	70	-----		-----	
TOTAL					1,036	1,395	2,846	2,008	914			
MEAN					33.4	46.5	91.8	64.8	30.5			
MAX					84	73	115	104	88			
MIN					0	27	52	32	0			
AC-FT					2,050	2,770	5,650	3,980	1,810			
YEAR 1997	MAX	115	MIN	0	AC-FT	16,260						

# PLATTE RIVER BASIN (LOUP RIVER)

## NORTH LOUP RIVER at Ord, 06788500 - 1997

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.

E indicates estimated daily discharge. Estimated records January 1-February 16, November 14-16. Records 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 5,210 cubic feet per second July 12, gage height 4.67 feet; maximum gage height 4.74 feet January 24 due to backwater from ice; minimum daily discharge 455 cubic feet per second November 17.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	950E	920E	1,200	944	1,090	999	1,800	753	831	1,090	929	1,090
2	960E	900E	1,270	974	1,240	961	1,220	829	853	929	888	973
3	970E	900E	1,150	1,110	1,370	756	926	795	921	901	771	1,000
4	990E	910E	1,070	1,120	1,380	924	894	734	905	854	723	1,030
5	1,030E	930E	1,020	1,170	1,230	1,240	900	713	891	752	678	988
6	1,030E	930E	1,040	1,070	1,130	971	863	719	848	703	708	893
7	1,000E	980E	1,100	1,020	1,190	894	825	706	1,060	667	702	868
8	1,000E	1,100E	1,110	956	1,120	919	769	743	1,060	754	661	998
9	940E	1,200E	1,130	976	1,080	896	720	713	1,120	792	641	1,070
10	800E	1,220E	1,100	880	983	744	667	670	1,060	769	642	1,100
11	810E	1,320E	1,110	810	935	747	594	864	1,050	752	624	1,190
12	790E	1,500E	1,160	860	957	831	2,880	1,040	1,020	921	590	1,200
13	810E	1,650E	1,100	926	946	758	1,620	1,100	1,090	1,140	617	1,220
14	850E	1,800E	925	925	858	714	1,110	1,780	1,140	1,010	600E	1,130
15	880E	1,980E	915	923	866	688	1,060	1,180	1,180	856	590E	1,210
16	870E	2,100E	1,050	1,010	824	672	951	1,010	1,110	800	500E	1,240
17	870E	2,210	1,070	1,080	803	675	850	1,000	1,080	807	455	1,050
18	900E	2,050	1,050	1,090	878	659	761	1,010	1,090	794	673	1,110
19	950E	1,730	1,040	1,160	908	590	633	1,020	1,090	792	760	1,150
20	990E	1,530	1,100	1,190	774	610	593	965	1,090	804	707	1,110
21	1,010E	1,350	1,000	1,280	553	712	583	1,050	1,120	787	862	1,180
22	980E	1,270	1,060	1,270	654	676	559	1,190	1,250	740	884	1,270
23	900E	1,260	1,090	1,240	662	683	555	1,060	1,320	682	799	1,210
24	870E	1,300	1,060	1,220	683	676	602	1,050	1,400	720	757	1,220
25	820E	1,300	991	1,230	684	657	581	1,060	1,340	1,010	798	1,270
26	750E	1,280	977	1,230	817	608	565	1,040	1,210	816	857	1,210
27	750E	1,220	896	1,220	807	626	576	966	1,210	776	1,100	1,310
28	770E	1,270	916	1,160	1,210	609	573	886	1,190	877	1,020	1,140
29	820E	-----	967	1,110	1,140	610	596	842	1,170	980	1,090	1,050
30	850E	-----	988	1,120	1,150	685	582	823	1,140	960	1,070	1,060
31	870E	-----	936	-----	1,090	-----	668	814	-----	954	-----	1,130
TOTAL	27,780	38,110	32,591	32,274	30,012	22,790	27,076	29,125	32,839	26,189	22,696	34,670
MEAN	896	1,361	1,051	1,076	968	760	873	940	1,095	845	757	1,118
MAX	1,030	2,210	1,270	1,280	1,380	1,240	2,880	1,780	1,400	1,140	1,100	1,310
MIN	750	900	896	810	553	590	555	670	831	667	455	868
AC-FT	55,100	75,590	64,640	64,020	59,530	45,200	53,710	57,770	65,140	51,950	45,020	68,770
YEAR 1997	TOTAL	356,152	MEAN	976	MAX	2,880	MIN	455	AC-FT	706,400		

**PLATTE RIVER BASIN  
(LOUP RIVER)**

ORD-NORTH LOUP CANAL from North Loup River,00109000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	17	30	109	45			
2					0	17	17	109	50			
3					0	16	36	108	57			
4					0	17	38	108	57			
5					0	20	39	108	56			
6					0	27	46	112	55			
7					14	29	54	112	49			
8					41	28	78	114	43			
9					30	28	94	116	41			
10					16	28	91	117	39			
11					16	28	91	88	35			
12					17	28	104	57	34			
13					20	27	86	59	34			
14					23	27	89	51	33			
15					25	27	89	48	15			
16					25	27	77	49	0			
17					25	28	94	50	0			
18					26	28	93	51	0			
19					27	28	95	51	0			
20					26	29	105	51	0			
21					25	30	98	52	0			
22					27	28	96	51	0			
23					28	31	102	45	0			
24					26	31	103	43	0			
25					17	32	103	41	0			
26					16	31	108	41	0			
27					16	31	109	40	0			
28					17	31	111	41	0			
29		-----			16	31	111	42	0			
30		-----			16	33	111	43	0			
31		-----		-----	17	-----	113	43	-----		-----	
TOTAL					552	813	2,611	2,150	643			
MEAN					17.8	27.1	84.2	69.4	21.4			
MAX					41	33	113	117	57			
MIN					0	16	17	40	0			
AC-FT					1,090	1,610	5,180	4,260	1,280			
YEAR 1997	MAX	117	MIN	0	AC-FT	13,430						



# PLATTE RIVER BASIN (LOUP RIVER)

**MIRA CREEK near North Loup, 06788898 - 1997**

LOCATION.--NW1/4SE1/4 Sec. 7-18-13 W., Valley County, Lat. 41° 30' 09", Long. 98° 47' 47", on left bank near the half section line road running west from Highway 11, 1.4 mile northwest of North Loup.

DRAINAGE AREA.--Undetermined

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.

E indicates estimated daily discharge. Estimated records January 9-29, February 17-22. Records good, except estimated records 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 18 cubic feet per second July 14, gage height 1.28 feet; minimum daily discharge 1.6 cubic feet per second October 11.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3.6	3.5	5.5	3.2	4.6	5.7	8.1	6.9	5.3	4.7	5.3	2.8
2	4.7	2.9	5.3	3.2	4.8	5.4	6.6	6.5	5.2	4.5	5.1	2.8
3	4.7	2.5	5.7	3.4	5.1	5.3	5.4	6.2	5.3	4.4	4.6	2.8
4	3.8	2.5	5.1	3.3	5.1	5.6	5.2	5.9	5.9	4.0	3.5	2.8
5	2.8	2.9	5.7	3.9	5.3	5.5	5.2	5.8	5.3	3.1	3.2	2.8
6	2.8	3.3	6.4	4.4	4.5	5.3	5.1	6.5	5.0	2.6	3.1	2.8
7	2.5	3.3	5.9	3.9	4.2	5.5	5.2	7.5	6.2	2.4	2.8	2.8
8	2.5	3.9	6.6	3.3	4.2	5.2	5.1	7.7	6.4	2.1	2.6	2.8
9	2.3E	4.8	6.9	2.9	3.8	5.1	5.4	7.7	5.6	1.8	2.6	2.8
10	2.1E	5.3	6.6	2.5	3.6	5.2	5.2	7.6	5.0	1.7	2.6	2.8
11	2.0E	6.6	6.1	2.3	3.1	5.1	5.9	8.1	4.6	1.6	2.6	2.7
12	2.0E	5.5	5.6	2.4	2.8	5.9	7.7	9.8	4.6	2.3	2.6	2.4
13	2.0E	7.4	5.3	3.8	2.9	13	12	12	4.5	5.1	2.6	2.3
14	2.2E	7.9	3.5	4.4	2.5	13	17	11	4.3	5.1	2.8	2.2
15	2.4E	7.6	4.7	5.1	2.4	11	13	8.7	4.2	4.1	2.7	2.4
16	2.4E	8.9	4.7	5.8	2.1	9.0	11	6.7	4.1	3.1	2.4	2.6
17	2.3E	13 E	4.5	6.0	2.0	6.9	9.4	5.9	4.1	2.6	2.6	2.6
18	2.5E	15 E	3.9	5.9	2.0	6.0	9.3	5.6	4.1	2.5	2.5	2.6
19	2.6E	13 E	3.8	5.8	2.0	5.6	9.9	5.4	4.2	2.3	2.6	2.5
20	2.6E	12 E	4.0	5.7	1.8	5.6	8.9	5.2	4.0	2.2	2.6	2.5
21	2.8E	11 E	3.9	5.3	1.8	8.8	8.8	6.9	4.0	2.3	2.6	2.5
22	3.0E	10 E	3.8	5.7	1.9	8.9	10	7.4	4.2	2.2	2.6	2.6
23	2.8E	8.7	3.7	5.6	1.9	6.7	10	6.1	4.6	2.2	2.5	2.5
24	2.6E	6.7	3.6	5.4	2.0	6.3	9.5	5.1	10	2.2	2.5	2.3
25	2.4E	6.1	3.5	5.5	2.6	5.9	9.2	4.7	11	3.3	2.4	2.3
26	2.4E	5.2	3.5	5.3	4.9	5.3	8.1	4.7	6.2	3.5	2.6	2.3
27	2.4E	5.7	3.9	5.2	7.2	5.2	6.9	4.7	4.8	3.9	2.6	2.2
28	2.3E	5.5	3.8	5.0	8.4	5.1	6.6	4.8	4.4	3.7	2.7	2.2
29	2.5E	-----	3.4	4.6	7.3	4.8	6.5	5.3	4.4	4.4	2.8	2.2
30	2.9	-----	3.3	4.6	6.1	4.7	7.0	5.2	4.8	4.9	2.8	2.0
31	3.1	-----	3.2	-----	5.6	-----	7.4	5.1	-----	5.2	-----	1.8
TOTAL	84.0	190.7	145.4	133.4	118.5	196.6	250.6	206.7	156.3	100.0	87.5	77.7
MEAN	2.71	6.81	4.69	4.45	3.82	6.55	8.08	6.67	5.21	3.23	2.92	2.51
MAX	4.7	15	6.9	6.0	8.4	13	17	12	11	5.2	5.3	2.8
MIN	2.0	2.5	3.2	2.3	1.8	4.7	5.1	4.7	4.0	1.6	2.4	1.8
AC-FT	167	378	288	265	235	390	497	410	310	198	174	154
YEAR 1997	TOTAL	1,747.4	MEAN	4.79	MAX	17	MIN	1.6	AC-FT	3,470		

# PLATTE RIVER BASIN (LOUP RIVER)

**CEDAR RIVER near Spalding, 06791500 - 1997**

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.

E indicates estimated daily discharge. Estimated records January 1-February 12. Records 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 475 cubic feet per second on April 19, gage height 3.93 feet; minimum daily discharge 125 cubic feet per second estimated January 25.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	155E	170E	220	180	233	220	161	133	142	153	223	165
2	160E	170E	212	186	247	203	165	132	147	154	214	165
3	160E	165E	205	188	251	196	157	131	147	156	195	166
4	150E	160E	201	193	244	200	147	129	146	152	188	166
5	140E	160E	200	211	240	195	144	129	145	152	194	163
6	145E	160E	197	233	233	192	143	130	144	153	191	160
7	134E	155E	197	244	222	190	143	138	170	153	183	168
8	140E	160E	199	264	214	181	139	145	180	153	177	166
9	135E	170E	202	249	200	174	139	144	184	157	177	166
10	140E	180E	204	252	193	166	139	142	171	160	171	165
11	135E	185E	205	265	188	167	139	156	168	162	170	166
12	140E	190E	207	236	180	170	158	160	166	180	170	171
13	145E	193	206	228	177	171	233	162	172	222	175	167
14	145E	191	193	236	161	170	234	170	177	249	172	167
15	150E	189	182	258	166	175	222	170	172	211	171	165
16	155E	186	191	298	168	171	197	167	168	195	169	165
17	160E	192	187	361	168	168	172	159	165	192	172	164
18	165E	215	190	452	168	164	156	151	163	185	176	163
19	165E	225	191	442	166	161	149	148	160	178	175	164
20	170E	244	191	359	160	160	142	149	158	172	172	166
21	160E	285	193	309	161	229	141	149	159	166	169	167
22	150E	305	189	294	159	207	140	157	175	165	167	169
23	135E	294	187	291	164	173	138	154	194	167	168	169
24	130E	266	189	285	173	158	135	149	200	169	170	169
25	125E	253	185	272	174	149	133	145	186	191	170	168
26	130E	243	182	259	191	146	132	142	179	196	170	169
27	155E	231	187	241	210	145	132	142	168	190	170	169
28	175E	227	187	235	219	142	132	141	161	190	171	170
29	170E	-----	183	207	226	142	134	143	154	201	170	169
30	170E	-----	181	235	230	142	135	143	153	214	168	171
31	165E	-----	182	-----	236	-----	135	140	-----	222	-----	170
TOTAL	4,654	5,764	6,025	7,963	6,122	5,227	4,766	4,550	4,974	5,560	5,328	5,168
MEAN	150	206	194	265	197	174	154	147	166	179	178	167
MAX	175	305	220	452	251	229	234	170	200	249	223	171
MIN	125	155	181	180	159	142	132	129	142	152	167	160
AC-FT	9,230	11,430	11,950	15,790	12,140	10,370	9,450	9,020	9,870	11,030	10,570	10,250

YEAR 1997      TOTAL      66,101      MEAN      181      MAX      452      MIN      125      AC-FT      131,100

# PLATTE RIVER BASIN (LOUP RIVER)

## CEDAR RIVER near Fullerton, 06792000 - 1997

LOCATION.--NE1/4NE1/4 Sec. 4-16-6 W., Nance County, Lat. 41° 23' 45", Long. 98° 00' 15", on left upstream bank near county bridge, 3 miles northwest of Fullerton and 7.4 miles upstream from mouth.

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

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

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

REMARKS.--Record published by U. S. Geological Survey through Sep. 1995.  
E indicates estimated daily discharge. Estimated records January 1-February 19, March 14-15, November 18-19, December 5-18. Records 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 1,640 cubic feet per second June 21, gage height 3.31 feet; minimum daily discharge 112 cubic feet per second August 6.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	200E	300E	310	239	296	357	229	128	150	205	313	207
2	210E	300E	323	241	309	338	239	132	163	206	313	209
3	210E	290E	332	244	320	321	227	135	167	207	294	198
4	200E	280E	323	244	318	322	224	132	168	208	266	197
5	215E	280E	308	251	312	327	196	117	173	208	245	190E
6	235E	275E	299	283	300	310	193	112	174	208	246	190E
7	262E	250E	295	293	305	297	203	114	182	211	240	210E
8	250E	255E	288	312	292	290	222	114	227	211	235	210E
9	250E	265E	298	338	276	279	193	126	366	214	225	215E
10	245E	260E	299	338	259	270	217	141	302	217	220	210E
11	230E	275E	297	339	251	257	182	218	209	219	212	220E
12	220E	288E	294	332	246	262	166	205	209	291	210	240E
13	215E	290E	299	308	248	259	172	201	244	387	217	250E
14	215E	285E	285E	296	239	258	259	220	226	336	208	250E
15	220E	310E	270E	324	234	268	287	228	217	357	202	260E
16	230E	315E	281	365	240	257	247	219	215	309	195	250E
17	245E	312E	268	405	244	242	226	217	201	279	225	245E
18	255E	566E	265	501	243	220	176	210	203	271	240E	245E
19	255E	2,560E	259	676	237	207	159	207	197	267	230E	240
20	260E	1,250	258	576	229	205	154	196	187	257	235	236
21	250E	662	266	495	224	1,020	151	197	195	250	231	237
22	235E	555	264	464	223	585	149	208	214	243	237	241
23	215E	484	264	431	260	440	157	196	257	241	228	248
24	200E	398	261	397	314	350	156	195	274	245	231	250
25	195E	349	268	374	289	311	155	189	283	305	228	252
26	200E	338	265	366	336	278	144	178	265	325	227	256
27	230E	321	263	350	393	242	137	172	249	298	220	263
28	320E	309	265	331	376	227	145	170	229	287	226	270
29	315E	-----	261	316	373	222	129	164	219	297	213	267
30	300E	-----	249	298	373	209	129	151	212	298	214	278
31	290E	-----	239	-----	386	-----	131	150	-----	309	-----	271
TOTAL	7,372	12,622	8,716	10,727	8,945	9,430	5,754	5,342	6,577	8,166	7,026	7,305
MEAN	238	451	281	358	289	314	186	172	219	263	234	236
MAX	320	2,560	332	676	393	1,020	287	228	366	387	313	278
MIN	195	250	239	239	223	205	129	112	150	205	195	190
AC-FT	14,620	25,040	17,290	21,280	17,740	18,700	11,410	10,600	13,050	16,200	13,940	14,490
YEAR 1997	TOTAL	97,982	MEAN	268	MAX	2,560	MIN	112	AC-FT	194,300		

# PLATTE RIVER BASIN (LOUP RIVER)

**BEAVER CREEK at Loretto, 06793500 - 1997**

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.  
E indicates estimated daily discharge. Estimated records January 1-February 12, June 12-13, July 16-17, November 14-19, December 5-7. Records good, except estimated records 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 301 cubic feet per second April 16, gage height 3.81 feet; minimum daily discharge 30 cubic feet per second August 8-9.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	72E	78E	94	91	107	95	62	34	58	53	91	61
2	70E	76E	97	88	110	83	88	37	55	52	83	61
3	60E	74E	96	87	120	74	69	35	50	52	78	60
4	50E	70E	95	90	122	75	63	34	48	50	76	59
5	56E	68E	93	97	110	78	61	32	48	49	72	50E
6	60E	66E	91	107	96	75	64	36	49	50	70	46E
7	62E	64E	89	116	88	70	62	31	55	51	68	50E
8	64E	60E	89	108	85	66	59	30	61	51	65	64
9	60E	62E	97	105	78	64	52	30	164	52	64	62
10	50E	66E	103	103	76	61	45	33	120	53	64	62
11	45E	72E	102	97	72	61	44	41	76	55	63	60
12	50E	78E	99	93	67	62E	42	48	67	63	63	54
13	52E	85	94	97	66	64E	59	48	64	122	62	62
14	56E	81	79	116	64	66	83	56	61	101	60E	68
15	60E	83	79	223	61	63	77	54	55	84	54E	65
16	62E	82	92	291	61	58	61E	47	53	73	50E	64
17	52E	91	90	272	58	61	56E	43	50	70	54E	65
18	60E	202	90	214	57	54	51	41	49	68	56E	65
19	70E	213	91	162	58	53	43	40	49	66	60E	66
20	80E	174	91	131	56	52	38	38	47	62	63	68
21	90E	151	91	123	53	60	40	37	49	61	65	69
22	98E	126	91	150	52	76	40	39	58	63	64	69
23	90E	110	92	169	50	70	41	39	93	61	64	69
24	80E	103	93	156	57	60	41	42	86	61	64	68
25	70E	97	91	130	61	56	39	41	79	85	65	68
26	60E	93	92	117	68	52	38	37	73	100	65	68
27	55E	92	92	106	121	52	36	36	67	88	67	70
28	50E	92	90	101	156	51	37	38	60	84	63	68
29	55E	-----	90	95	166	49	35	41	57	106	61	69
30	70E	-----	92	102	144	48	33	56	54	108	61	66
31	80E	-----	92	-----	115	-----	32	61	-----	99	-----	68
TOTAL	1,989	2,709	2,857	3,937	2,655	1,909	1,591	1,255	1,955	2,193	1,955	1,964
MEAN	64.2	96.8	92.2	131	85.6	63.6	51.3	40.5	65.2	70.7	65.2	63.4
MAX	98	213	103	291	166	95	88	61	164	122	91	70
MIN	45	60	79	87	50	48	32	30	47	49	50	46
AC-FT	3,950	5,370	5,670	7,810	5,270	3,790	3,160	2,490	3,880	4,350	3,880	3,900
YEAR 1997	TOTAL	26,969	MEAN	73.9	MAX	291	MIN	30	AC-FT	53,490		

# PLATTE RIVER BASIN (ELKHORN RIVER)

## ELKHORN RIVER near Atkinson, 06796973 - 1997

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.  
E indicates estimated daily discharge. Estimated records January 1-February 21, March 13-17, October 25-29, November 10-18, December 5-14, 23-31. Records good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 4,060 cubic feet per second May 29, 1995, gage height 9.27 feet; minimum daily discharge 1.1 cubic feet per second August 31 to September 3, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharge 659 cubic feet per second April 16, gage height 6.37 feet; minimum daily discharge 17 cubic feet per second August 31.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	66E	62E	215	87	285	392	46	50	18	24	40	41
2	64E	64E	204	84	312	334	42	50	20	24	39	40
3	64E	62E	223	94	370	294	41	46	19	23	37	42
4	62E	64E	203	106	383	325	40	43	19	22	37	42
5	60E	62E	180	144	352	336	42	38	20	22	37	40E
6	64E	60E	174	182	304	298	41	35	20	22	37	39E
7	68E	58E	173	163	266	259	41	35	18	22	39	44E
8	64E	60E	197	197	230	224	44	33	19	22	39	46E
9	60E	58E	237	264	199	190	44	31	21	25	39	44E
10	54E	58E	260	233	176	162	44	31	19	23	38E	41E
11	52E	60E	267	169	154	142	42	33	21	23	37E	39E
12	52E	64E	256	171	131	136	50	34	23	32	37E	40E
13	54E	68E	150E	201	120	130	54	35	25	40	38E	42E
14	58E	74E	100E	291	108	121	52	38	24	35	36E	45E
15	56E	80E	110E	555	97	111	54	36	24	33	35E	47
16	54E	100E	130E	638	93	98	53	34	23	31	34E	44
17	52E	120E	140E	539	85	87	47	32	22	31	33E	44
18	54E	150E	163	460	79	78	42	31	22	31	40E	45
19	58E	210E	153	390	69	94	40	31	20	31	42	45
20	62E	300E	154	352	65	101	37	29	21	29	40	44
21	66E	350E	151	342	63	104	36	26	21	29	40	45
22	64E	397	139	353	60	105	36	24	28	31	39	43
23	60E	353	130	369	61	95	37	23	29	32	41	40E
24	56E	309	123	368	61	83	46	23	28	31	42	39E
25	52E	286	114	340	59	72	77	22	28	29E	43	37E
26	54E	276	113	312	76	67	56	20	25	27E	42	38E
27	56E	236	110	282	162	60	48	20	25	29E	42	39E
28	54E	225	103	245	321	55	43	20	23	32E	42	39E
29	56E	-----	94	224	428	50	39	19	23	35E	41	40E
30	58E	-----	92	258	483	47	38	18	24	39	41	39E
31	60E	-----	92	-----	466	-----	37	17	-----	39	-----	40E
TOTAL	1,814	4,266	4,950	8,413	6,118	4,650	1,389	957	672	898	1,167	1,293
MEAN	58.5	152	160	280	197	155	44.8	30.9	22.4	29.0	38.9	41.7
MAX	68	397	267	638	483	392	77	50	29	40	43	47
MIN	52	58	92	84	59	47	36	17	18	22	33	37
AC-FT	3,600	8,460	9,820	16,690	12,140	9,220	2,760	1,900	1,330	1,780	2,310	2,560
YEAR 1997	TOTAL	36,587	MEAN	100	MAX	638	MIN	17	AC-FT	72,570		

# PLATTE RIVER BASIN (ELKHORN RIVER)

**SOUTH FORK ELKHORN RIVER near Ewing, 06798000 - 1997**

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. E indicates estimated daily discharge. Estimated records January 1-February 17, March 3-5, 14-16, August 23-September 3, November 10-18, 30-December 14, December 19-31. 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 421 cubic feet per second on April 16, gage height 2.41 feet; minimum daily discharge estimated 30 cubic feet per second on August 26, 29-31, September 1, 4.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	40E	54E	85	76	97	146	42	53	30E	41	51	45E
2	42E	52E	79	74	116	108	48	48	32E	37	49	45E
3	44E	50E	77E	75	132	81	49	40	31E	38	50	48E
4	43E	45E	68E	82	152	77	49	37	30	42	53	46E
5	40E	45E	70E	97	142	88	53	37	36	39	54	45E
6	39E	47E	70	125	117	94	54	37	37	37	53	44E
7	40E	50E	62	142	102	87	49	43	39	38	50	45E
8	40E	52E	74	120	85	80	46	35	45	43	48	45E
9	37E	56E	83	130	74	73	46	32	57	52	47	45E
10	38E	62E	86	128	75	66	45	37	40	50	46E	48E
11	39E	70E	87	98	70	76	44	41	38	45	47E	44E
12	40E	72E	81	76	65	89	62	41	39	47	46E	46E
13	41E	72E	77	79	64	82	59	46	42	85	44E	45E
14	43E	71E	70E	94	64	76	58	47	37	68	43E	47E
15	43E	77E	80E	185	63	69	55	44	39	57	40E	49
16	36E	81E	81E	388	63	64	46	40	40	55	42E	48
17	40E	100E	83	354	63	60	44	41	41	51	45E	49
18	43E	127	83	220	63	54	42	42	38	49	46E	49
19	50E	143	83	142	61	48	41	39	38	46	47	47E
20	54E	197	83	116	61	44	40	38	41	46	45	45E
21	58E	241	81	96	59	35	41	38	47	46	47	44E
22	53E	171	81	96	58	33	42	34	68	47	48	43E
23	50E	132	81	110	59	32	46	33E	63	49	45	42E
24	46E	114	80	115	59	33	41	32E	52	47	41	42E
25	42E	92	78	106	58	37	40	31E	51	55	41	41E
26	38E	87	80	94	83	39	40	30E	47	58	40	43E
27	35E	77	81	82	120	44	42	32E	39	53	42	43E
28	39E	79	83	71	233	49	55	31E	40	52	46	41E
29	43E	-----	81	66	291	52	48	30E	39	51	50	42E
30	45E	-----	80	69	253	56	54	30E	40	48	46E	43E
31	50E	-----	81	-----	199	-----	51	30E	-----	51	-----	44E
TOTAL	1,331	2,516	2,449	3,706	3,201	1,972	1,472	1,169	1,256	1,523	1,392	1,393
MEAN	42.9	89.9	79.0	124	103	65.7	47.5	37.7	41.9	49.1	46.4	44.9
MAX	58	241	87	388	291	146	62	53	68	85	54	49
MIN	35	45	62	66	58	32	40	30	30	37	40	41
AC-FT	2,640	4,990	4,860	7,350	6,350	3,910	2,920	2,320	2,490	3,020	2,760	2,760
YEAR 1997	TOTAL	23,380	MEAN	64.1	MAX	388	MIN	30	AC-FT	46,370		

# PLATTE RIVER BASIN (ELKHORN RIVER)

**ELKHORN RIVER at Neligh, 06798500 - 1997**

LOCATION.--NE1/4SE1/4 Sec. 20-25-6 W., Antelope County, Lat. 42° 07' 32", Long. 98° 01' 44", on right bank 30 feet downstream from bridge on old State Highway 14 at Neligh.

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

GAGE.--Continuous stage recorder. Gage datum is 1,714.00 feet above sea level.

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

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1993.  
E indicates estimated daily discharge. Estimated records January 1-February 15, February 22-March 6, November 9-19, December 24-31. Records good, except estimated records poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 19,300 cubic feet per second May 30, 1995, gage height 13.37 feet; minimum daily discharge 12 cubic feet per second July 1, 1932.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,670 cubic feet per second April 17, gage height 5.24 feet; maximum gage height 5.35 feet February 23 due to backwater from ice; minimum daily discharge 110 cubic feet per second September 2.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	270E	440E	780E	345	902	1,220	268	161	111	145	305	237
2	280E	470E	740E	374	1,130	999	269	177	110	145	298	234
3	270E	450E	700E	373	1,230	851	271	177	112	145	271	231
4	245E	400E	640E	403	1,260	750	269	166	111	143	254	219
5	230E	390E	580E	474	1,280	664	263	144	111	138	247	169
6	245E	350E	580E	631	1,180	647	287	133	114	136	243	114
7	270E	300E	613	819	1,050	626	287	132	140	137	240	170
8	290E	250E	625	691	887	585	262	132	144	144	239	210
9	270E	260E	728	758	708	486	237	121	180	143	230E	224
10	200E	270E	756	770	621	430	209	118	192	142	210E	224
11	210E	288E	816	711	545	427	190	128	172	146	200E	223
12	220E	300E	802	563	482	652	277	142	159	195	190E	207
13	230E	330E	735	509	438	599	398	153	158	322	180E	242
14	240E	340E	495	640	405	501	335	169	158	313	170E	277
15	250E	340E	414	1,200	371	439	292	175	159	304	160E	279
16	235E	352	415	1,480	342	380	268	173	156	277	160E	280
17	245E	371	528	1,490	318	332	222	145	150	248	170E	288
18	290E	746	587	1,470	297	298	195	133	144	228	200E	299
19	330E	1,190	537	1,440	259	299	171	133	139	221	250E	285
20	360E	1,020	532	1,280	240	296	158	131	132	202	277	281
21	410E	1,090	506	1,100	235	334	157	123	133	187	250	266
22	450E	1,100E	467	1,150	215	434	157	123	201	181	236	276
23	400E	1,000E	469	1,230	213	526	173	123	272	181	239	252
24	300E	960E	450	1,170	224	620	147	121	246	187	228	235E
25	250E	920E	413	1,060	225	516	122	121	231	268	226	225E
26	230E	860E	385	986	333	431	118	114	211	267	227	220E
27	200E	840E	411	899	637	385	141	113	190	245	228	215E
28	230E	800E	400	806	1,230	340	225	135	168	248	232	225E
29	250E	-----	378	750	1,450	299	190	125	154	262	234	220E
30	300E	-----	374	841	1,460	259	171	119	146	277	236	235E
31	350E	-----	352	-----	1,370	-----	159	116	-----	293	-----	230E
TOTAL	8,550	16,427	17,208	26,413	21,537	15,625	6,888	4,276	4,804	6,470	6,830	7,292
MEAN	276	587	555	880	695	521	222	138	160	209	228	235
MAX	450	1,190	816	1,490	1,460	1,220	398	177	272	322	305	299
MIN	200	250	352	345	213	259	118	113	110	136	160	114
AC-FT	16,960	32,580	34,130	52,390	42,720	30,990	13,660	8,480	9,530	12,830	13,550	14,460
YEAR 1997	TOTAL	142,320	MEAN	390	MAX	1,490	MIN	110	AC-FT	282,300		

# PLATTE RIVER BASIN (ELKHORN RIVER)

**WILLOW CREEK near Foster, 06799080 - 1997**

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  
E indicates estimated daily discharge. Estimated records January 1-February 27, November 14-17, December 4-14, 19-31.  
Records 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 gage height 8.83 feet February 20, 1997 due to backwater from an ice jam; minimum daily discharge 1.0 cubic feet per second November 4, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharge estimated at 150 cubic feet per second February 21, gage height 8.63 feet; maximum gage height 8.83 feet February 20 due to backwater from an ice jam; minimum daily discharge 8.4 cubic feet per second September 4.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18 E	70E	32	29	41	41	18	13	9.2	12	21	16
2	17 E	90E	37	29	46	32	16	12	9.0	12	20	17
3	15 E	102E	49	30	54	28	15	12	8.6	12	18	16
4	14 E	82E	46	32	53	27	15	11	8.4	11	18	13E
5	15 E	64E	46	39	43	24	15	11	8.6	12	18	11E
6	14 E	60E	42	37E	36	22	15	11	8.8	11	17	10E
7	12 E	50E	40	32E	34	21	19	10	10	11	17	10E
8	11 E	45E	42	28E	31	19	21	9.8	10	12	17	13E
9	10 E	40E	54	28E	29	18	17	9.4	11	12	17	11E
10	9.8E	35E	56	30E	27	18	16	9.9	10	12	17	10E
11	11 E	37E	58	31	26	19	15	11	10	13	16	11E
12	12 E	39E	54	34	25	24	19	11	11	17	19	10E
13	13 E	40E	48	33	24	22	22	10	12	23	16	12E
14	14 E	50E	47	47	23	20	20	13	11	18	15E	14E
15	13 E	54E	54	97	22	19	32	21	11	17	15E	17
16	15 E	56E	56	136	22	18	50	14	11	16	17E	17
17	20 E	60E	38	92	21	17	38	12	11	16	20E	17
18	25 E	66E	39	52	21	16	25	12	11	16	16	17
19	23 E	72E	37	41	20	16	20	12	10	15	16	16E
20	26 E	90E	37	43	20	16	17	12	10	15	17	14E
21	35 E	150E	37	52	19	32	15	11	11	15	17	13E
22	30 E	140E	36	74	19	37	15	11	16	15	17	13E
23	25 W	100E	34	88	20	34	14	11	20	15	17	14E
24	20 E	80E	34	65	23	25	13	10	16	15	16	15E
25	15 E	56E	33	47	23	21	13	9.7	15	14E	17	15E
26	16 E	35E	33	40	44	19	12	8.9	14	13E	17	14E
27	20 E	30E	32	36	77	18	12	9.0	13	18	17	13E
28	25 E	28	32	34	100	17	14	9.9	13	19	17	13E
29	30 E	-----	32	32	118	19	13	8.9	12	21	17	14E
30	40 E	-----	31	43	101	21	13	9.5	12	22	17	14E
31	50 E	-----	31	-----	61	-----	13	9.1	-----	22	-----	14E
TOTAL	613.8	1,821	1,277	1,431	1,223	680	572	345.1	343.6	472	516	424
MEAN	19.8	65.0	41.2	47.7	39.5	22.7	18.5	11.1	11.5	15.2	17.2	13.7
MAX	50	150	58	136	118	41	50	21	20	23	21	17
MIN	9.8	28	31	28	19	16	12	8.9	8.4	11	15	10
AC-FT	1,220	3,610	2,530	2,840	2,430	1,350	1,130	685	682	936	1,020	841
YEAR 1997	TOTAL	9,718.5	MEAN	26.6	MAX	150	MIN	8.4	AC-FT	19,280		



# PLATTE RIVER BASIN (ELKHORN RIVER)

**WILLOW CREEK RESERVOIR from Willow Creek, 00410300 - 1997**

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

REMARKS.--E indicates estimated daily storage contents. Estimated storage March 11-25, April 7-30, June 20-July 1, 7. Records good, except estimated records are fair.

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

### DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	7,120	7,450	7,820	7,370	7,570	7,800	7,080E	7,000	6,830	6,910	7,150	7,130
2	7,110	7,590	7,780	7,330	7,610	7,710	7,100	6,980	6,790	6,900	7,130	7,120
3	7,120	7,870	7,710	7,360	7,640	7,620	7,160	6,960	6,770	6,890	7,110	7,130
4	7,130	7,850	7,650	7,350	7,660	7,570	7,140	6,910	6,770	6,890	7,130	7,100
5	7,150	7,710	7,610	7,390	7,620	7,510	7,150	6,890	6,760	6,890	7,140	7,080
6	7,150	7,640	7,570	7,380	7,560	7,450	7,130	6,890	6,750	6,890	7,130	7,090
7	7,170	7,540	7,530	7,390E	7,550	7,380	7,190E	6,870	6,760	6,890	7,130	7,110
8	7,110	7,480	7,550	7,410E	7,470	7,340	7,410	6,840	6,730	6,860	7,120	7,110
9	7,110	7,390	7,550	7,440E	7,440	7,280	7,360	6,810	6,730	6,860	7,110	7,120
10	7,100	7,380	7,630	7,450E	7,410	7,250	7,310	6,780	6,720	6,870	7,110	7,120
11	7,110	7,350	7,660E	7,440E	7,350	7,250	7,280	6,780	6,710	6,880	7,110	7,100
12	7,100	7,300	7,660E	7,450E	7,290	7,260	7,410	6,780	6,710	6,980	7,110	7,140
13	7,040	7,280	7,640E	7,470E	7,280	7,260	7,420	6,780	6,730	7,000	7,110	7,140
14	7,060	7,250	7,560E	7,510E	7,240	7,260	7,370	6,860	6,730	7,040	7,090	7,130
15	7,060	7,250	7,550E	7,630E	7,210	7,230	7,350	6,990	6,730	7,040	7,080	7,130
16	7,060	7,240	7,540E	7,780E	7,220	7,200	7,380	6,970	6,710	7,040	7,080	7,130
17	7,060	7,250	7,510E	7,850E	7,200	7,180	7,360	6,960	6,710	7,060	7,080	7,130
18	7,060	7,510	7,500E	7,870E	7,170	7,170	7,340	6,940	6,720	7,050	7,090	7,140
19	7,060	8,010	7,490E	7,780E	7,120	7,170	7,280	6,970	6,680	7,030	7,120	7,130
20	7,060	8,740	7,480E	7,710E	7,130	7,190E	7,220	6,960	6,660	7,040	7,100	7,130
21	7,150	8,960	7,470E	7,710E	7,110	7,460E	7,190	6,960	6,660	7,020	7,110	7,140
22	7,190	8,860	7,460E	7,740E	7,100	7,490E	7,170	6,930	6,740	7,030	7,110	7,150
23	7,190	8,630	7,450E	7,820E	7,130	7,490E	7,150	6,930	6,790	7,030	7,110	7,150
24	7,190	8,450	7,440E	7,860E	7,170	7,470E	7,120	6,930	6,840	7,030	7,130	7,150
25	7,200	8,280	7,410E	7,860E	7,170	7,430E	7,080	6,930	6,860	7,040	7,130	7,130
26	7,200	8,130	7,380	7,820E	7,400	7,390E	7,060	6,910	6,880	7,060	7,130	7,130
27	7,180	8,000	7,390	7,740E	7,610	7,080E	7,060	6,890	6,870	7,080	7,150	7,150
28	7,180	7,920	7,330	7,670E	7,780	7,050E	7,040	6,890	6,870	7,090	7,130	7,130
29	7,140	-----	7,330	7,630E	7,920	7,070E	7,000	6,860	6,870	7,120	7,140	7,130
30	7,170	-----	7,350	7,610E	7,970	7,090E	6,980	6,860	6,890	7,140	7,130	7,130
31	7,240	-----	7,370	-----	7,910	-----	6,980	6,860	-----	7,150	-----	7,130
MAX	7,240	8,960	7,820	7,870	7,970	7,800	7,420	7,000	6,890	7,150	7,150	7,150
MIN	7,040	7,240	7,330	7,330	7,100	7,050	6,980	6,780	6,660	6,860	7,080	7,080
CHANGE	160	678	-550	237	305	-821	-107	-125	31.2	265	-25.5	6.4
YEAR 1997			MEAN	7,238	MAX	8,960	MIN	6,660				

# PLATTE RIVER BASIN (ELKHORN RIVER)

**WILLOW CREEK near Pierce, 00232500 - 1997**

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.--21 square miles.

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

PERIOD OF RECORD.--1983 - present

REMARKS.--E indicates estimated daily discharge. Estimated records January 1-2, 9-13, October 25-November 3. 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 3.1 cubic feet per second, September 2 - 3, 1989.

EXTREMES FOR CURRENT YEAR.--Peak discharge 343 cubic feet per second February 21, gage height 6.06 feet; minimum daily discharge 2.5 cubic feet per second, September 30.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	22E	39	92	40	65	103	29	12	6.5	2.6	24E	19
2	21E	56	83	39	67	90	27	11	6.0	3.0	24E	20
3	21	85	80	38	69	75	23	11	5.8	3.9	24E	19
4	23	93	75	40	72	69	23	9.7	5.6	5.1	24	18
5	23	79	70	43	71	61	27	8.0	5.6	5.5	23	17
6	21	67	65	45	64	54	26	6.1	4.9	6.1	21	16
7	21	60	61	46	60	48	30	5.6	5.1	6.6	20	17
8	22	52	60	46	57	42	60	5.0	4.9	7.4	19	18
9	21E	46	60	47	50	36	61	4.0	4.6	7.4	18	18
10	21E	41	61	45	46	33	57	3.9	4.6	7.6	18	19
11	20E	37	62	50	41	32	51	4.5	4.4	8.4	17	19
12	20E	34	61	48	37	33	52	4.8	4.1	12	17	18
13	19E	32	63	48	34	32	67	5.2	4.2	17	17	17
14	18	30	60	50	32	31	63	5.7	4.3	18	17	17
15	18	29	56	64	30	29	60	8.7	4.1	19	17	16
16	18	29	54	87	29	28	60	12	3.9	19	16	18
17	17	28	52	106	27	26	61	11	3.9	19	15	19
18	16	34	51	104	26	24	59	11	3.7	19	15	19
19	16	77	50	95	24	25	52	11	3.7	19	16	19
20	16	179	49	88	22	25	46	10	3.6	19	16	19
21	18	319	48	85	22	37	40	9.9	3.2	19	17	19
22	25	329	49	93	20	41	35	9.3	3.3	19	17	20
23	28	287	46	101	22	43	31	9.1	3.3	19	17	21
24	28	240	46	105	25	42	28	7.9	2.9	19	17	20
25	26	193	45	98	27	38	25	7.1	3.0	19 E	18	21
26	25	149	45	89	38	34	21	6.7	2.9	20 E	18	20
27	23	121	44	79	60	31	18	6.4	3.3	20 E	18	20
28	22	104	43	72	85	28	18	6.5	3.4	21 E	18	20
29	21	-----	41	65	108	26	16	6.6	3.1	22 E	19	20
30	21	-----	40	64	119	30	14	6.0	2.5	22 E	19	20
31	23	-----	40	-----	114	-----	12	6.2	-----	23 E	-----	20
TOTAL	654	2,869	1,752	2,020	1,563	1,246	1,192	241.9	124.4	447.6	556	585
MEAN	21.1	102	56.5	67.3	50.4	41.5	38.5	7.80	4.15	14.4	18.5	18.9
MAX	28	329	92	106	119	103	67	12	6.5	23	24	21
MIN	16	28	40	38	20	24	12	3.9	2.5	2.6	15	16
AC-FT	1,300	5,690	3,480	4,010	3,100	2,470	2,360	480	247	888	1,100	1,160
YEAR 1997	TOTAL	13,250.9	MEAN	36.3	MAX	329	MIN	2.5	AC-FT	26,280		

# PLATTE RIVER BASIN (ELKHORN RIVER)

## UNION CREEK at Madison, 06799230 - 1997

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 (111,206 acres)

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.

E indicates estimated daily discharges. Estimated discharges January 16-22. Records good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 15,100 cubic feet per second June 16, 1990, gage height 25.72 feet; minimum daily discharge 2.0 cubic feet per second August 28, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharge 913 cubic feet per second February 18, gage height 14.69 feet; minimum daily discharge 3.1 cubic feet per second August 27.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	25	31	32	29	41	36	20	7.0	8.7	15	23	18
2	30	33	32	30	37	34	18	7.1	8.4	15	22	18
3	184	37	33	30	37	34	18	8.5	9.4	15	20	18
4	366	32	29	31	36	34	18	7.7	9.5	14	20	17
5	92	31	29	34	32	33	19	4.0	10	14	20	17
6	43	30	28	37	33	32	18	3.5	9.8	15	20	17
7	39	29	28	33	33	30	18	4.0	11	15	20	17
8	37	27	29	30	30	30	22	5.6	12	15	21	17
9	30	28	30	30	29	29	16	5.1	9.6	15	21	18
10	28	28	32	32	29	29	14	8.4	8.7	16	22	18
11	26	29	30	30	28	29	31	11	11	16	22	17
12	26	29	30	31	28	28	24	10	12	37	21	17
13	26	29	29	33	29	28	17	12	12	35	22	18
14	24	28	25	41	28	27	15	13	14	28	21	18
15	24	29	27	69	26	26	13	13	13	22	21	19
16	23E	29	28	52	27	25	9.6	9.8	13	20	21	19
17	21E	44	30	43	26	25	7.5	11	13	19	21	20
18	21E	337	31	39	26	24	7.9	11	13	17	21	20
19	21E	615	29	37	26	23	9.0	10	13	20	19	20
20	24E	235	29	38	24	22	9.6	5.7	13	21	18	19
21	49E	109	32	39	22	25	9.5	4.5	13	20	18	19
22	37E	55	28	44	20	25	7.4	5.6	20	20	18	20
23	33	39	29	43	29	27	8.0	6.2	36	20	18	20
24	35	36	31	38	38	25	9.1	7.1	39	19	18	21
25	31	33	30	34	38	22	8.8	6.4	24	38	18	21
26	27	32	30	33	64	21	6.7	3.6	18	42	18	21
27	26	29	29	33	83	18	4.9	3.1	14	29	18	21
28	26	30	29	33	71	16	4.8	6.0	13	25	18	21
29	25	-----	29	33	56	18	5.0	8.1	14	26	18	20
30	25	-----	30	38	45	20	5.2	12	14	28	18	20
31	27	-----	29	-----	39	-----	5.4	10	-----	24	-----	19
TOTAL	1,451	2,073	916	1,097	1,110	795	399.4	240.0	429.1	675	596	585
MEAN	46.8	74.0	29.5	36.6	35.8	26.5	12.9	7.74	14.3	21.8	19.9	18.9
MAX	366	615	33	69	83	36	31	13	39	42	23	21
MIN	21	27	25	29	20	16	4.8	3.1	8.4	14	18	17
AC-FT	2,880	4,110	1,820	2,180	2,200	1,580	792	476	851	1,340	1,180	1,160
YEAR 1997	TOTAL	10,366.5	MEAN	28.4	MAX	615	MIN	3.1	AC-FT	20,560		

# PLATTE RIVER BASIN (ELKHORN RIVER)

**PEBBLE CREEK at Scribner, 06799385 - 1997**

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.  
E indicates estimated daily discharge. Estimated records January 1-February 4, February 7-14, March 3-4, November 13-15, December 5-8, 12-14, 22-31. Records fair, except estimated records 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 9,650 cubic feet per second June 21, gage height 22.26 feet; minimum daily discharge estimated at 13 cubic feet per second February 12.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	47E	50E	26	29	72	64	138	30	39	28	45	38
2	50E	45E	22	30	82	59	106	32	2,590	28	45	37
3	45E	35E	21E	34	78	56	91	29	204	32	40	37
4	42E	30E	21E	36	66	61	84	26	70	31	39	34
5	40E	26	21	57	62	57	87	26	52	31	39	33E
6	45E	27	25	63	58	53	140	28	44	32	39	31E
7	45E	20E	27	41	61	49	79	26	40	30	39	33E
8	40E	15E	29	42	57	49	378	26	37	30	38	35E
9	35E	15E	123	38	54	48	89	23	40	29	38	39
10	37E	15E	82	37	54	51	78	26	39	29	37	37
11	38E	14E	53	40	52	51	70	40	33	31	37	36
12	39E	13E	40	37	48	52	61	43	32	37	37	32E
13	40E	14E	37	40	46	53	66	33	41	51	36E	33E
14	41E	15E	31	58	43	52	54	29	40	37	34E	36E
15	35E	16	35	124	42	49	49	29	29	33	35E	38
16	35E	15	33	101	41	47	46	28	26	34	37	40
17	45E	22	40	74	40	45	45	28	25	34	39	38
18	56E	1,090	36	65	39	45	45	25	25	33	38	37
19	50E	815	33	58	37	44	43	28	25	32	38	37
20	56E	277	33	58	37	43	39	29	24	31	37	37
21	50E	177	35	64	39	4,020	51	31	23	30	37	36
22	47E	26	34	70	38	483	43	33	27	32	38	33E
23	43E	24	30	69	40	157	41	32	140	33	37	30E
24	41E	19	34	59	52	995	39	30	106	34	37	32E
25	39E	20	35	53	49	508	35	27	46	113	37	32E
26	38E	23	32	50	85	131	34	27	35	97	37	31E
27	37E	18	31	50	127	94	35	28	36	63	36	32E
28	36E	22	31	49	116	73	37	28	35	52	36	33E
29	40E	-----	31	48	87	198	34	30	31	56	37	34E
30	56E	-----	30	97	73	797	32	45	29	53	40	34E
31	56E	-----	29	-----	66	-----	37	38	-----	48	-----	31E
TOTAL	1,344	2,898	1,120	1,671	1,841	8,484	2,206	933	3,963	1,264	1,139	1,076
MEAN	43.4	104	36.1	55.7	59.4	283	71.2	30.1	132	40.8	38.0	34.7
MAX	56	1,090	123	124	127	4,020	378	45	2,590	113	45	40
MIN	35	13	21	29	37	43	32	23	23	28	34	30
AC-FT	2,670	5,750	2,220	3,310	3,650	16,830	4,380	1,850	7,860	2,510	2,260	2,130
YEAR 1997	TOTAL	27,939	MEAN	76.5	MAX	4,020	MIN	13	AC-FT	55,420		

# PLATTE RIVER BASIN (ELKHORN RIVER)

## LOGAN CREEK at Pender, 06799450 - 1997

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

E indicates estimated daily discharge. Estimated records January 1-February 20, February 26, March 1, 4-7, 12, 14-15, 17-31, April 2, 8, 17-May 9, May 11-23, June 3-8, 16-21, November 13-18, December 6-12, 22, 24-31. Records are fair, 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 5,610 cubic feet per second February 20, gage height 13.92 feet; minimum daily discharge 91 cubic feet per second September 5-6.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	150E	740E	290E	248	330E	559	261	143	119	119	139	145
2	190E	1,800E	360	250E	330E	444	224	148	112	124	138	144
3	230E	1,100E	385	257	340E	400E	209	141	110	121	135	144
4	600E	600E	350E	261	330E	360E	202	134	104	118	137	139
5	200E	340E	360E	338	320E	350E	201	127	91	116	135	140
6	166E	320E	340E	478	300E	340E	207	126	91	118	137	120E
7	190E	290E	320E	311	290E	330E	207	122	94	119	136	110E
8	150E	260E	396	283E	284E	320E	229	118	97	120	137	120E
9	130E	240E	1,870	275	280E	315	225	114	124	121	136	139E
10	120E	230E	609	287	256	316	208	118	128	124	138	130E
11	116E	215E	413	259	270E	332	209	128	123	126	137	125E
12	135E	205E	328E	248	270E	433	211	131	120	143	138	140E
13	150B	195E	383	269	260E	833	226	131	121	197	115E	151
14	160E	190E	290E	393	260E	582	273	136	121	183	115E	144
15	155E	185E	300E	598	260E	366	216	190	115	155	110E	145
16	150E	180E	326	413	250E	300E	192	212	111	146	105E	143
17	140E	175E	260E	400E	250E	268E	184	149	108	141	110E	143
18	150E	600E	280E	370E	245E	260E	176	133	103	139	120E	142
19	170E	1,500E	290E	340E	240E	250E	165	137	99	137	138	142
20	200E	3,500E	300E	350E	240E	250E	156	154	117	133	140	139
21	230E	3,020	290E	390E	235E	270E	154	142	111	133	141	137
22	350E	1,230	280E	380E	235E	293	192	135	128	136	143	130E
23	1,000E	733	280E	370E	240E	277	225	132	218	137	142	132
24	700E	377	280E	360E	714	283	170	128	225	145	141	115E
25	340E	278	280E	350E	459	277	155	126	158	162	143	120E
26	230E	270E	270E	350E	936	246	148	125	138	165	141	115E
27	220E	344	270E	340E	1,500	229	149	129	127	160	142	115E
28	200E	293	260E	330E	1,400	218	164	132	119	153	144	115E
29	190E	-----	260E	330E	982	230	154	130	115	153	143	120E
30	185E	-----	250E	330E	759	404	142	134	111	150	141	120E
31	200E	-----	245E	-----	642	-----	144	141	-----	145	-----	120E
TOTAL	7,497	19,410	11,415	10,158	13,707	10,335	5,978	4,246	3,658	4,339	4,017	4,084
MEAN	242	693	368	339	442	345	193	137	122	140	134	132
MAX	1,000	3,500	1,870	598	1,500	833	273	212	225	197	144	151
MIN	116	175	245	248	235	218	142	114	91	116	105	110
AC-FT	14,870	38,500	22,640	20,150	27,190	20,500	11,860	8,420	7,260	8,610	7,970	8,100
YEAR 1997	TOTAL	98,844	MEAN	271	MAX	3,500	MIN	91	AC-FT	196,100		

# PLATTE RIVER BASIN (SALT CREEK)

**OAK CREEK at Lincoln, 00227700 - 1997**

LOCATION.--NE1/4NE1/4 Sec. 7-10-6 E., Lancaster County, Lat. 40°51'20", Long. 96°46'46", on right downstream side of bridge, immediately east from intersection of N.W. 42nd Street and Air Park Road in the West Lincoln Park Industrial Area. It can be reached from the intersection of Interstate 80 and N.W. 48th Street by driving north on N.W. 48th Street 2.6 miles. Turn right (east) on Air Park Road and proceed six blocks to station on bridge.

DRAINAGE AREA.--240 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,142.86 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1987 - present

REMARKS.--E indicates estimated daily discharge. Estimated records: January 1-31, February 5-17, 22-27, March 13-15, November 15-21, December 4-31. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 8,730 cubic feet per second July 24, 1993, gage height 22.66 feet; minimum daily discharge, 2.6 cubic feet per second July 24, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharge 713 cubic feet per second June 25, gage height 5.45 feet; minimum daily discharge 8.9 cubic feet per second September 1.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	36E	75	57	32	49	45	67	15	8.9	9.5	29	72
2	42E	70	54	31	45	43	47	14	14	10	20	46
3	44E	67	52	32	45	40	40	14	12	11	18	40
4	42E	56	51	35	42	39	33	13	12	10	18	35E
5	41E	48E	49	40	39	37	31	13	12	11	15	28E
6	41E	44E	47	46	38	35	29	12	11	11	14	27E
7	43E	42E	46	44	119	32	27	13	11	10	14	26E
8	41E	42E	46	36	60	30	26	11	12	11	14	29E
9	38E	41E	53	36	52	28	30	9.1	11	10	14	31E
10	33E	41E	64	39	47	27	28	9.6	11	11	15	30E
11	38E	42E	52	41	46	28	25	40	10	12	15	27E
12	40E	41E	48	43	45	28	23	49	11	16	14	25E
13	41E	39E	47E	47	44	27	19	26	10	22	15	24E
14	42E	40E	45E	49	40	26	20	15	11	24	15	26E
15	43E	40E	46E	53	38	25	18	14	11	16	14E	28E
16	34E	42E	47	51	35	26	15	14	11	13	13E	28E
17	31E	78E	44	46	35	25	14	12	10	12	14E	28E
18	38E	207	43	43	33	23	13	12	10	12	15E	29E
19	45E	145	42	43	31	22	15	16	10	12	15E	29E
20	58E	92	40	43	31	22	17	14	9.4	14	16E	27E
21	58E	82	38	44	29	26	16	13	9.8	13	16E	24E
22	54E	68E	40	47	28	24	16	11	12	13	17	25E
23	48E	60E	37	46	27	23	13	12	20	14	17	25E
24	45E	54E	38	44	27	66	12	12	28	17	17	26E
25	40E	50E	39	42	29	334	11	12	22	25	18	26E
26	35E	54E	37	40	59	91	11	11	15	39	17	23E
27	33E	58E	36	40	62	64	14	11	12	31	17	22E
28	31E	58	35	39	56	53	17	9.5	10	24	17	24E
29	37E	-----	36	38	52	48	23	9.2	9.9	22	187	24E
30	52E	-----	35	48	50	43	16	9.0	9.1	33	192	25E
31	80E	-----	34	-----	47	-----	14	10	-----	44	-----	25E
TOTAL	1,324	1,776	1,378	1,258	1,380	1,380	700	455.4	366.1	532.5	832	904
MEAN	42.7	63.4	44.5	41.9	44.5	46.0	22.6	14.7	12.2	17.2	27.7	29.2
MAX	80	207	64	53	119	334	67	49	28	44	192	72
MIN	31	39	34	31	27	22	11	9.0	8.9	9.5	13	22
AC-FT	2,630	3,520	2,730	2,500	2,740	2,740	1,390	903	726	1,060	1,650	1,790
YEAR 1997	TOTAL	12,286.0	MEAN	33.7	MAX	334	MIN	8.9	AC-FT	24,370		

## REPUBLICAN RIVER BASIN

## HAIGLER CANAL from Republican River, 00061000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	19	18	35	23	24		
2					0	19	19	35	18	25		
3					0	18	19	33	15	26		
4					0	13	20	20	20	26		
5					0	11	21	12	23	26		
6					0	16	25	0	21	25		
7					12	21	28	6.2	19	25		
8					21	19	24	25	19	27		
9					21	16	24	39	18	25		
10					21	17	19	38	18	22		
11					20	17	20	33	18	26		
12					21	16	19	28	18	30		
13					22	16	21	29	15	31		
14					21	16	23	22	13	31		
15					21	16	24	17	21	31		
16					21	16	20	17	28	31		
17					18	16	19	16	27	23		
18					19	21	17	18	20	16		
19					22	18	15	17	8.5	16		
20					22	21	15	18	12	18		
21					22	21	15	16	17	28		
22					23	20	15	21	18	28		
23					42	19	16	25	17	29		
24					42	15	15	22	17	29		
25					40	18	15	20	17	15		
26					39	24	17	22	17	.64		
27					36	20	20	22	17	4.5		
28					31	19	21	20	17	1.4		
29		-----			28	19	30	19	20	.21		
30		-----			18	20	30	17	24	0		
31		-----		-----	19	-----	31	20	-----	0	-----	
TOTAL					622	537	635	682.2	555.5	639.75		
MEAN					20.1	17.9	20.5	22.0	18.5	20.6		
MAX					42	24	31	39	28	31		
MIN					0	11	15	0	8.5	0		
AC-FT					1,230	1,070	1,260	1,350	1,100	1,270		
YEAR 1997	MAX	42	MIN	0	AC-FT	7,280						

# REPUBLICAN RIVER BASIN

**HAIGLER CANAL from Republican River, 00061400 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	20	8.5	24	8.9	17		
2					0	17	9.5	27	10	16		
3					0	14	12	28	10	18		
4					0	14	12	20	13	20		
5					0	12	12	4.6	13	20		
6					0	12	15	0	14	19		
7					5.5	15	16	.88	14	20		
8					12	16	13	12	14	20		
9					13	16	13	28	15	18		
10					13	15	13	30	17	14		
11					11	14	13	29	16	7.2		
12					13	12	14	24	15	16		
13					16	12	12	21	11	13		
14					22	13	12	18	5.2	11		
15					19	14	16	9.7	9.8	18		
16					17	14	15	12	23	21		
17					13	13	14	14	23	20		
18					12	14	15	15	19	6.4		
19					22	17	12	16	7.1	5.4		
20					25	15	11	16	4.7	7.5		
21					20	17	11	14	11	23		
22					30	16	9.7	17	11	24		
23					38	17	10	27	11	24		
24					32	17	9.7	24	11	26		
25					32	12	10	18	11	35		
26					34	19	11	18	11	23		
27					33	15	13	17	11	5.4		
28					32	12	14	16	11	17		
29		-----			29	12	21	14	13	6.8		
30		-----			24	11	27	13	16	0		
31		-----		-----	12	-----	19	11	-----	0	-----	
TOTAL					529.5	437	413.4	538.18	379.7	491.7		
MEAN					17.1	14.6	13.3	17.4	12.7	15.9		
MAX					38	20	27	30	23	35		
MIN					0	11	8.5	0	4.7	0		
AC-FT					1,050	867	820	1,070	753	975		
YEAR 1997	MAX	38	MIN	0	AC-FT	5,530						



## REPUBLICAN RIVER BASIN

## HAIGLER CANAL SPILLBACK to Arikaree River, 00061500 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	5.4	0	.74	6.2	2.3	.14	
2					0	8.5	0	.57	6.4	2.8	.06	
3					0	3.2	.66	.34	2.7	2.7	0	
4					0	3.6	0	.18	2.2	4.8	0	
5					0	5.1	0	.09	2.6	6.9	0	
6					0	5.9	0	.39	4.6	6.6	0	
7					0	12	0	0	5.2	6.8	0	
8					0	13	0	0	5.3	8.0	0	
9					0	9.2	0	3.5	4.6	9.3	0	
10					0	7.9	.07	2.1	5.2	9.6	0	
11					.04	10	0	8.0	6.9	7.1	0	
12					0	9.5	.04	8.4	5.9	1.7	0	
13					0	6.0	.01	4.9	3.3	5.6	0	
14					0	5.9	0	3.7	1.6	4.1	0	
15					0	6.9	0	1.9	.27	3.0	0	
16					0	8.7	0	2.9	4.0	6.4	0	
17					.12	7.6	0	.15	7.1	8.6	0	
18					0	2.0	0	1.3	8.7	8.0	0	
19					0	8.0	0	5.6	5.7	3.0	0	
20					0	1.2	0	11	1.1	4.9	0	
21					0	7.8	0	9.2	5.0	3.0	0	
22					0	2.5	0	1.7	6.1	5.5	0	
23					.49	.67	0	4.1	5.1	5.3	0	
24					1.2	.25	0	1.4	4.5	5.4	0	
25					0	1.3	0	.49	2.6	5.3	0	
26					.60	7.9	0	.92	2.6	25	0	
27					2.2	2.2	0	1.1	3.4	8.1	0	
28					6.4	.66	0	1.5	3.6	0	0	
29		-----			6.7	.15	0	.47	1.4	0	0	
30		-----			6.4	.71	0	.18	1.7	0	0	
31		-----		-----	1.7	-----	.15	0	-----	0	-----	
TOTAL					25.85	163.74	0.93	76.82	125.57	169.8	0.20	
MEAN					.83	5.46	.030	2.48	4.19	5.48	.007	
MAX					6.7	13	.66	11	8.7	25	.14	
MIN					0	.15	0	0	.27	0	0	
AC-FT					51	325	1.8	152	249	337	.4	
YEAR 1997	MAX	25	MIN	0	AC-FT	1,120						

# REPUBLICAN RIVER BASIN

**MEEKER-DRIFTWOOD CANAL from Republican River, 00087000 - 1997**

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

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

PERIOD OF RECORD.--1957 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						0	171	143	201			
2						0	202	135	209			
3						0	236	135	211			
4						0	260	192	193			
5						0	266	258	78			
6						0	265	207	0			
7						0	280	138	0			
8						0	289	117	0			
9						0	289	114	0			
10						0	282	114	0			
11						0	275	131	0			
12						0	274	152	0			
13						0	274	175	0			
14						0	288	199	0			
15						0	306	214	0			
16						49	312	219	0			
17						54	312	219	0			
18						73	304	237	0			
19						95	301	237	0			
20						95	301	227	0			
21						96	284	216	0			
22						96	271	162	0			
23						111	263	137	0			
24						119	276	136	0			
25						133	277	173	0			
26						110	268	207	0			
27						95	268	228	0			
28						95	262	234	0			
29		-----				95	236	206	0			
30		-----				127	202	194	0			
31		-----		-----		-----	171	194	-----		-----	
TOTAL						1,443	8,265	5,650	892			
MEAN						48.1	267	182	29.7			
MAX						133	312	258	211			
MIN						0	171	114	0			
AC-FT						2,860	16,390	11,210	1,770			
YEAR 1997	MAX	312	MIN	0	AC-FT	32,230						

# REPUBLICAN RIVER BASIN

## SWANSON LAKE near Trenton, 06829000 - 1997

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.--Published by U. S. Geological Survey up to October 1, 1994.

E indicates estimated daily storage contents. Estimated storage May 18-June 5, June 18-24. Records are good, except estimated records are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 148,900 acre-feet August 2 & 3, 1962, elevation 2,757.42 feet.  
Minimum since start of operation 19,950 acre-feet October 24, 1954, elevation 2,722.61 feet.

EXTREMES FOR CURRENT YEAR.--Maximum contents 123,900 acre-feet June 17, elevation 2,754.29 feet.  
Minimum 70,970 acre-feet October 24, elevation 2,742.55 feet.

STORAGE CAPACITY TABLE.--elevation in feet, storage in acre-feet

2,730	31,690	2,745	80,700	2,755	127,700
2,735	45,210	2,750	102,600	2,760	156,100
2,740	61,590				

### DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	99,300	103,900	111,100	116,500	120,900	122,100E	117,000	90,960	74,710	71,580	71,660	73,960
2	99,480	104,200	111,200	116,700	121,000	122,200E	116,100	90,440	74,120	71,550	71,660	74,120
3	99,660	104,600	111,500	116,900	121,000	122,400E	115,300	89,920	73,530	71,510	71,660	74,310
4	99,940	104,900	111,600	117,000	121,000	122,500E	114,500	89,270	73,180	71,430	71,740	74,350
5	100,100	105,100	111,900	117,500	121,100	122,600E	113,700	89,050	72,940	71,390	71,740	74,430
6	100,300	105,500	112,000	117,500	121,200	122,600	112,700	88,700	72,860	71,350	71,740	74,470
7	100,500	105,800	112,200	117,500	121,300	122,800	112,000	88,190	72,790	71,310	71,820	74,510
8	100,700	106,000	112,400	117,500	121,300	122,900	111,300	87,670	72,710	71,240	71,890	74,670
9	100,900	106,200	112,600	117,500	121,400	123,000	110,500	87,120	72,710	71,160	71,930	74,820
10	101,000	106,400	112,800	117,700	121,400	123,100	109,600	86,640	72,630	71,120	72,010	74,980
11	101,100	106,600	113,000	117,900	121,400	123,300	108,800	86,350	72,550	71,040	72,050	75,100
12	101,200	106,900	113,200	118,100	121,400	123,400	108,000	85,880	72,510	71,580	72,160	75,220
13	101,300	107,100	113,400	118,200	121,400	123,500	107,200	85,290	72,480	71,390	72,280	75,260
14	101,400	107,400	113,500	118,400	121,400	123,600	106,100	84,730	72,360	71,390	72,320	75,340
15	101,500	107,600	113,700	118,600	121,400	123,700	105,000	84,100	72,360	71,310	72,320	75,540
16	101,500	107,900	113,900	118,800	121,400	123,800	104,100	83,330	72,320	71,280	72,320	75,660
17	101,600	108,200	114,100	119,100	121,400	123,900	103,000	82,790	72,280	71,240	72,320	75,820
18	101,700	108,400	114,300	119,200	121,400	123,800E	102,000	82,120	72,160	71,240	72,360	75,930
19	101,700	108,700	114,500	119,400	121,500	123,300E	101,000	81,520	71,970	71,160	72,480	76,090
20	101,900	108,900	114,700	119,500	121,500E	122,600E	99,990	80,960	71,970	71,120	72,550	76,210
21	102,000	109,200	114,800	119,700	121,500E	122,000E	99,210	80,580	71,890	71,040	72,630	76,330
22	102,200	109,400	115,000	119,800	121,500E	121,400E	98,250	80,240	71,930	71,040	72,750	76,490
23	102,300	109,700	115,100	119,800	121,400E	120,800E	97,340	79,860	71,890	71,010	72,860	76,610
24	102,500	110,000	115,300	119,900	121,400E	120,300E	96,390	79,440	71,890	70,970	72,980	76,890
25	102,700	110,200	115,300	120,100	121,400E	119,900	95,530	78,910	71,890	71,240	73,140	77,090
26	102,900	110,400	115,400	120,200	121,400E	119,400	94,680	78,300	71,820	71,350	73,210	77,170
27	103,100	110,500	115,500	120,300	121,500E	119,200	93,880	77,660	71,700	71,310	73,290	77,370
28	103,200	110,900	115,600	120,400	121,600E	118,700	93,340	76,930	71,700	71,310	73,530	77,410
29	103,300	-----	115,800	120,500	121,700E	118,200	92,770	76,370	71,660	71,390	73,680	77,540
30	103,500	-----	116,000	120,600	121,900E	117,600	92,110	75,860	71,580	71,470	73,800	77,740
31	103,700	-----	116,300	-----	122,000E	-----	91,360	75,300	-----	71,620	-----	77,940
MAX	103,700	110,900	116,300	120,600	122,000	123,900	117,000	90,960	74,710	71,620	73,800	77,940
MIN	99,300	103,900	111,100	116,500	120,900	117,600	91,360	75,300	71,580	70,970	71,660	73,960
CHANGE	4,590	7,200	5,400	4,300	1,400	-4,400	-26,240	-16,060	-3,720	40.0	2,180	4,140
YEAR 1997			MEAN	96,936	MAX	123,900	MIN	70,970				

# REPUBLICAN RIVER BASIN

**REPUBLICAN RIVER near Trenton, 00126700 - 1997**

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 September 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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						0	124	120	73			
2						0	124	120	73			
3						0	124	120	60			
4						0	124	120	16			
5						0	124	119	0			
6						0	124	119	0			
7						0	122	119	0			
8						0	122	119	0			
9						0	122	119	0			
10						0	122	119	0			
11						0	122	91	0			
12						0	122	75	0			
13						0	121	75	0			
14						0	154	74	0			
15						0	171	74	0			
16						0	171	74	0			
17						0	171	74	0			
18						93	169	74	0			
19						149	169	74	0			
20						195	169	74	0			
21						220	169	74	0			
22						220	169	74	0			
23						191	156	74	0			
24						175	148	74	0			
25						175	148	74	0			
26						175	148	74	0			
27						143	148	74	0			
28						126	146	74	0			
29						126	146	73	0			
30						126	131	73	0			
31						-----	120	73	-----			
TOTAL						2,114	4,400	2,764	222			
MEAN						70.5	142	89.2	7.40			
MAX						220	171	120	73			
MIN						0	120	73	0			
AC-FT						4,190	6,730	5,480	440			
YEAR 1997	MAX	220	MIN	0	AC-FT	18,840						

# REPUBLICAN RIVER BASIN

## FRENCHMAN CREEK near Imperial, 06831500 - 1997

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

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

GAGE.--Continuous stage recorder. Gage datum is approximately 3130 feet above National Geodetic Vertical Datum of 1929, from topographic map.

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

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

E indicates estimated daily discharge. Estimated daily discharges January 11-13, August 23-September 2. Records good, except estimated records 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 4.8 cubic feet per second March 12, 1977 during backwater from ice.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,290 cubic feet per second June 17, gage height 5.88 feet; minimum daily discharge 12 cubic feet per second September 16-17.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	27	26	28	26	27	24	22	19	15E	15	19	19
2	27	26	27	28	28	30	21	18	14E	15	19	19
3	27	27	28	30	27	36	20	17	14	15	18	19
4	27	27	27	30	27	34	20	17	14	15	18	18
5	26	27	27	31	26	30	19	18	15	15	19	19
6	25	27	27	30	26	28	19	22	15	15	19	19
7	26	27	27	29	25	26	19	20	14	16	19	20
8	26	26	27	29	25	25	19	18	14	16	19	20
9	27	26	27	28	24	36	21	17	14	17	19	21
10	23	27	27	29	24	31	20	17	14	16	19	22
11	22E	27	26	28	23	29	19	18	13	16	19	21
12	22E	26	27	30	22	27	21	18	13	20	19	21
13	22E	27	26	31	23	26	20	17	13	19	20	22
14	22	27	26	30	22	26	19	17	13	18	18	22
15	23	27	27	30	22	26	19	16	13	17	19	21
16	24	27	28	29	22	49	18	15	12	17	20	22
17	24	27	27	28	21	596	18	15	12	17	20	22
18	25	28	27	28	21	190	17	15	13	17	19	22
19	27	29	25	28	20	117	16	15	13	16	19	22
20	27	28	25	28	21	79	16	15	14	17	19	21
21	26	28	25	28	20	57	16	14	14	17	19	22
22	27	27	25	27	21	38	16	14	15	17	19	22
23	27	27	25	27	25	30	16	14E	16	18	19	22
24	27	28	25	27	26	28	15	13E	16	18	19	23
25	24	28	25	27	25	25	15	13E	16	17	19	23
26	23	28	25	27	27	29	15	14E	16	17	18	22
27	27	27	25	27	27	28	15	14E	15	23	18	22
28	27	28	26	27	26	26	15	15E	15	21	18	23
29	27	-----	25	28	26	25	20	15E	15	20	18	23
30	26	-----	27	27	26	23	21	15E	15	20	19	23
31	26	-----	26	-----	25	-----	20	15E	-----	20	-----	23
TOTAL	786	760	815	852	750	1,774	567	500	425	537	566	660
MEAN	25.4	27.1	26.3	28.4	24.2	59.1	18.3	16.1	14.2	17.3	18.9	21.3
MAX	27	29	28	31	28	596	22	22	16	23	20	23
MIN	22	26	25	26	20	23	15	13	12	15	18	18
AC-FT	1,560	1,510	1,620	1,690	1,490	3,520	1,120	992	843	1,070	1,120	1,310
YEAR 1997	TOTAL	8,992	MEAN	24.6	MAX	596	MIN	12	AC-FT	17,840		

# REPUBLICAN RIVER BASIN

**FRENCHMAN CREEK near Enders, 06832500 - 1997**

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 - present operated during irrigation season when water was released from Enders Reservoir.

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1993.  
E indicates estimated daily discharge. Estimated daily discharges June 1-20, August 23-31. Records good, except estimated records are poor.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						1.4E	187	60				
2						1.4E	199	69				
3						1.4E	193	94				
4						1.4E	170	119				
5						1.4E	159	137				
6						1.4E	164	126				
7						1.4E	173	81				
8						1.4E	187	54				
9						1.4E	165	63				
10						1.4E	149	77				
11						1.4E	120	78				
12						1.4E	129	85				
13						1.4E	139	95				
14						1.4E	173	94				
15						1.4E	206	99				
16						1.4E	196	116				
17						1.4E	182	158				
18						1.4E	165	189				
19						1.4E	174	213				
20						1.4E	188	210				
21						39	198	201				
22						59	195	26				
23						83	176	.50E				
24						97	166	.50E				
25						128	166	.50E				
26						156	168	.50E				
27						116	140	.50E				
28						115	131	.50E				
29		-----				132	129	.50E				
30		-----				155	77	.50E				
31		-----		-----		-----	66	.50E	-----		-----	
TOTAL						1,108.0	5,030	2,448.50				
MEAN						36.9	162	79.0				
MAX						156	206	213				
MIN						1.4	66	.50				
AC-FT						2,200	9,980	4,860				
YEAR 1997 partial year record			TOTAL	8,586.50	MEAN	93.3	MAX	213	MIN	.50	AC-FT	17,030

# REPUBLICAN RIVER BASIN

## STINKING WATER CREEK near Palisade, 06835000 - 1997

LOCATION.--SW1/4NW1/4 Sec. 30-S-33 W., Hayes County, Lat. 40°22'10", Long. 101°06'50", on right bank 25 feet downstream from 96 inch corrugated metal pipe, 1.25 miles upstream from mouth, and 1.75 miles northwest of Palisade.

DRAINAGE AREA.--Approximately 1,500 square miles; approximately 380 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,750.99 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1949 - present

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

E indicates estimated daily discharge. Estimated records January 3-16, 18-20, 25-30, February 9-14, April 10-11, July 2-3, October 25-27, November 13-17, December 9-12, 25-27. Records good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 3,030 cubic feet per second on June 17, 1956, gage height 11.30 feet; minimum daily discharge 4.9 cubic feet per second August 23, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharge 899 cubic feet per second August 1, gage height 9.85 feet; minimum daily discharge 11 cubic feet per second July 25.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	30	28	32	27	27	26	19	321	18	17	27	25
2	27	28	31	28	27	35	18E	375	17	16	26	25
3	24E	29	31	28	26	50	17E	115	17	16	25	25
4	23E	29	32	30	27	67	16	46	17	16	24	25
5	23E	28	32	31	27	79	16	37	17	16	24	25
6	24E	29	31	29	26	50	16	36	17	16	24	25
7	25E	29	31	31	26	42	15	38	17	16	24	24
8	24E	29	31	28	26	33	15	36	17	16	24	23
9	23E	26E	31	28	25	27	15	31	17	17	24	21E
10	22E	25E	32	26E	24	25	16	28	17	18	24	21E
11	22E	26E	31	26E	24	26	16	27	17	18	24	21E
12	21E	25E	32	28	23	24	16	26	16	21	24	22E
13	21E	24E	32	29	23	23	16	26	16	22	23E	23
14	20E	27E	31	33	22	22	15	25	17	24	21E	23
15	21E	29	31	35	22	21	14	23	16	25	20E	24
16	22E	31	30	35	22	20	14	23	16	22	21E	24
17	24	33	30	33	21	20	13	23	16	21	21E	24
18	25E	34	31	32	21	18	12	22	16	21	22	24
19	27E	33	32	31	20	17	12	22	16	21	23	24
20	30E	33	31	29	20	16	12	21	16	21	23	25
21	32	32	31	29	20	17	12	21	16	21	24	24
22	32	33	30	29	20	16	12	22	17	21	24	24
23	30	32	30	29	20	15	12	27	17	21	24	24
24	29	32	30	28	20	14	12	22	18	21	24	24
25	23E	31	30	28	22	25	11	21	18	20E	24	23E
26	22E	30	29	27	23	41	12	20	18	20E	24	23E
27	23E	31	28	27	24	36	13	19	18	22E	24	23E
28	26E	31	28	27	26	28	13	18	17	24	25	24
29	29E	-----	28	27	28	23	14	18	17	26	26	25
30	32E	-----	27	27	28	21	54	18	17	26	26	25
31	33	-----	27	-----	27	-----	63	18	-----	26	-----	26
TOTAL	789	827	943	875	737	877	531	1,525	506	628	713	738
MEAN	25.5	29.5	30.4	29.2	23.8	29.2	17.1	49.2	16.9	20.3	23.8	23.8
MAX	33	34	32	35	28	79	63	375	18	26	27	26
MIN	20	24	27	26	20	14	11	18	16	16	20	21
AC-FT	1,560	1,640	1,870	1,740	1,460	1,740	1,050	3,020	1,000	1,250	1,410	1,460
YEAR 1997	TOTAL	9,689	MEAN	26.5	MAX	375	MIN	11	AC-FT	19,220		

# REPUBLICAN RIVER BASIN

**CULBERTSON CANAL from Frenchman River, 00035000 - 1997**

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 furnished by United States Bureau of Reclamation

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				0	43	47	124	97				
2				0	44	49	139	113				
3				0	43	49	157	124				
4				0	43	49	161	106				
5				0	44	49	155	121				
6				0	46	49	147	146				
7				0	45	49	146	151				
8				0	44	48	149	137				
9				0	37	49	161	108				
10				0	42	49	160	103				
11				0	42	49	152	112				
12				0	42	50	134	114				
13				0	42	50	128	116				
14				0	41	49	134	123				
15				16	40	48	141	127				
16				57	40	48	171	128				
17				53	40	48	178	129				
18				46	39	46	170	151				
19				36	38	46	159	170				
20				35	39	45	159	192				
21				46	38	46	164	205				
22				47	38	43	171	201				
23				47	38	52	174	151				
24				49	40	76	168	88				
25				49	42	93	162	72				
26				48	43	95	160	63				
27				48	44	117	152	57				
28				48	46	113	139	53				
29				46	49	109	129	15				
30		-----		45	49	112	125	0				
31		-----		-----	48	-----	111	0	-----		-----	
TOTAL				716	1,309	1,822	4,680	3,473				
MEAN				23.9	42.2	60.7	151	112				
MAX				57	49	117	178	205				
MIN				0	37	43	111	0				
AC-FT				1,420	2,600	3,610	9,280	6,890				
YEAR 1997	MAX	205	MIN	0	AC-FT	23,800						



# REPUBLICAN RIVER BASIN

## RIVERSIDE CANAL from Frenchman River, 00127000 - 1997

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

REMARKS.--E indicates estimated mean daily discharge. Estimated records October 13-14.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						0	16	15	13	0		
2						0	17	21	13	0		
3						0	17	22	13	0		
4						0	16	15	13	0		
5						0	16	14	13	0		
6						0	15	14	13	0		
7						1.6	15	13	13	0		
8						10	14	13	13	1.5		
9						12	14	12	13	6.6		
10						12	15	11	13	7.9		
11						12	12	11	13	11		
12						12	11	11	13	13		
13						12	11	11	13	11	E	
14						12	9.3	9.8	14	13	E	
15						12	10	9.0	10	14		
16						12	11	7.0	13	14		
17						12	11	7.5	14	14		
18						12	5.6	8.9	14	14		
19						12	4.8	10	14	11		
20						12	4.3	11	14	0		
21						15	4.2	9.1	14	0		
22						14	4.3	6.1	6.0	0		
23						14	5.3	9.9	0	0		
24						16	5.2	5.4	0	0		
25						17	2.9	4.5	0	0		
26						19	3.3	3.5	0	0		
27						18	3.5	3.4	0	0		
28						16	3.2	3.1	0	0		
29		-----				16	2.8	7.2	0	0		
30		-----				16	7.7	14	0	0		
31		-----		-----		-----	18	13	-----	0	-----	
TOTAL						316.6	305.4	325.4	282.0	131.0		
MEAN						10.6	9.85	10.5	9.40	4.23		
MAX						19	18	22	14	14		
MIN						0	2.8	3.1	0	0		
AC-FT						628	606	645	559	260		
YEAR 1997	MAX	22	MIN	0	AC-FT	2,700						

# REPUBLICAN RIVER BASIN

**RED WILLOW CREEK above Hugh Butler Lake, 06837300 - 1997**

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.

E indicates estimated daily discharge. Estimated daily discharge January 1-31, February 7-15, 26-28, November 16-19, December 5-16, 24-31. Records good except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 4,020 cubic feet per second June 16, 1972, gage height 13.27 feet (at different datum); minimum daily discharge 3.1 cubic feet per second July 12, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharge 83 cubic feet per second September 14, gage height 4.31 feet; minimum daily discharge 8.2 cubic feet per second July 25.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23E	25	30	27	24	28	13	39	14	13	32	26
2	24E	27	31	27	24	27	12	38	13	13	27	25
3	23E	28	31	30	24	31	11	26	12	13	25	25
4	23E	27	31	32	23	33	11	20	12	11	22	24
5	22E	27	32	35	23	34	11	19	13	11	21	22E
6	23E	26	32	35	23	34	11	19	14	11	21	18E
7	23E	25E	30	32	23	32	11	18	13	12	20	16E
8	23E	24E	30	30	23	26	11	17	14	13	20	16E
9	22E	23E	31	29	22	23	11	17	14	16	20	17E
10	21E	22E	31	29	21	22	20	16	13	18	20	18E
11	20E	22E	32	29	21	21	14	17	12	19	20	18E
12	20E	22E	33	28	21	20	13	17	12	23	21	18E
13	20E	23E	33	28	21	20	12	16	12	29	21	18E
14	21E	24E	32	30	20	18	12	16	15	36	22	19E
15	22E	25E	31	34	20	18	12	16	14	37	20	19E
16	22E	26	30	36	20	18	13	18	13	34	18E	20E
17	23E	29	29	37	20	17	12	25	14	29	17E	21
18	23E	31	30	33	20	17	11	31	15	23	18E	22
19	24E	32	31	30	20	17	11	26	16	20	19E	23
20	24E	34	32	28	21	17	10	21	14	21	19	24
21	24E	34	32	27	20	18	10	18	14	20	19	24
22	23E	33	32	26	20	18	9.7	16	14	19	20	24
23	23E	33	30	25	22	16	9.1	15	14	18	21	23
24	22E	32	30	25	23	15	9.0	14	14	23	21	22E
25	21E	31	29	24	23	16	8.2	13	15	33	21	20E
26	21E	29E	28	24	24	16	8.7	12	15	42	21	20E
27	22E	28E	28	24	28	23	9.1	12	15	46	23	21E
28	23E	29E	28	24	30	23	9.7	11	15	43	24	22E
29	24E	-----	28	24	32	17	11	16	14	41	26	23E
30	25E	-----	27	24	33	15	11	39	13	38	28	24E
31	26E	-----	27	-----	32	-----	16	16	-----	35	-----	24E
TOTAL	700	771	941	866	721	650	353.5	614	412	760	647	656
MEAN	22.6	27.5	30.4	28.9	23.3	21.7	11.4	19.8	13.7	24.5	21.6	21.2
MAX	26	34	33	37	33	34	20	39	16	46	32	26
MIN	20	22	27	24	20	15	8.2	11	12	11	17	16
AC-FT	1,390	1,530	1,870	1,720	1,430	1,290	701	1,220	817	1,510	1,280	1,300
YEAR 1997	TOTAL	8,091.5	MEAN	22.2	MAX	46	MIN	8.2	AC-FT	16,050		

# REPUBLICAN RIVER BASIN

## HUGH BUTLER LAKE near McCook, 06837390 - 1997

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 1951 - present

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

COOPERATION.--Reservoir capacity table furnished by U. S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 41,680 acre-feet July 15 & 16, 1967, elevation 2,584.14 feet.  
Minimum since start of operation 16,930 acre-feet September 8, 1978 elevation 2565.31 feet.

EXTREMES FOR CURRENT YEAR.--Maximum contents 39,310 acre-feet June 15, elevation 2,582.73 feet.  
Minimum contents 29,720 acre-feet September 11, elevation 2,576.44 feet.

STORAGE CAPACITY TABLE.--elevation in feet, storage in acre-feet

2,565	16,630	2,575	27,800
2,570	21,800	2,580	34,910

### DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	35,940	36,510	37,500	38,150	38,840	39,020	37,900	32,960	30,070	29,940	30,870	31,490
2	35,980	36,530	37,530	38,200	38,810	39,140	37,690	32,940	29,940	29,950	30,870	31,550
3	35,980	36,660	37,560	38,200	38,790	39,220	37,470	32,910	29,830	29,950	30,870	31,560
4	36,040	36,680	37,560	38,250	38,880	39,190	37,290	32,770	29,740	29,920	30,900	31,580
5	36,040	36,680	37,600	38,250	38,930	39,210	37,130	32,610	29,730	29,920	30,900	31,580
6	36,040	36,720	37,610	38,250	38,930	39,260	36,950	32,510	29,790	29,950	30,900	31,580
7	36,060	36,760	37,640	38,300	38,960	39,270	36,820	32,420	29,790	29,910	30,910	31,610
8	36,100	36,790	37,680	38,300	38,940	39,270	36,680	32,320	29,770	29,910	30,940	31,650
9	36,120	36,820	37,710	38,330	38,890	39,260	36,530	32,210	29,740	29,830	30,950	31,690
10	36,120	36,840	37,740	38,360	38,910	39,240	36,400	32,100	29,730	29,840	30,950	31,710
11	36,100	36,870	37,740	38,400	38,910	39,270	36,240	32,100	29,720	29,860	30,970	31,720
12	36,120	36,920	37,820	38,410	38,860	39,290	36,120	32,070	29,730	30,010	30,980	31,720
13	36,120	36,930	37,840	38,430	38,860	39,290	35,930	32,020	29,730	29,950	31,020	31,760
14	36,180	36,970	37,820	38,460	38,860	39,260	35,710	31,980	29,920	29,950	31,020	31,760
15	36,200	37,020	37,840	38,500	38,860	39,310	35,520	31,960	29,940	29,990	31,020	31,810
16	36,200	37,030	37,900	38,510	38,880	39,240	35,300	31,860	29,950	30,010	31,020	31,830
17	36,210	37,080	37,940	38,580	38,930	39,170	35,130	31,790	29,920	30,030	31,050	31,860
18	36,260	37,100	37,940	38,630	38,930	39,120	34,950	31,650	29,940	30,070	31,070	31,880
19	36,260	37,130	37,980	38,680	38,840	39,010	34,780	31,560	29,880	30,090	31,110	31,910
20	36,280	37,160	38,020	38,710	38,780	38,980	34,600	31,440	29,860	30,090	31,120	31,920
21	36,290	37,210	38,030	38,710	38,760	38,930	34,430	31,270	29,830	30,070	31,150	31,960
22	36,310	37,240	38,030	38,690	38,760	38,790	34,280	31,190	29,860	30,070	31,150	31,990
23	36,340	37,270	38,030	38,680	38,780	38,660	34,140	31,090	29,860	30,100	31,180	32,010
24	36,340	37,350	38,070	38,660	38,780	38,480	33,990	31,010	29,860	30,350	31,220	32,080
25	36,360	37,370	38,050	38,660	38,810	38,430	33,820	30,910	29,870	30,490	31,280	32,100
26	36,360	37,420	38,070	38,660	38,810	38,330	33,650	30,740	29,910	30,500	31,270	32,120
27	36,370	37,440	38,060	38,680	38,830	38,250	33,500	30,580	29,950	30,570	31,290	32,170
28	36,400	37,500	38,120	38,740	38,840	38,230	33,310	30,420	29,940	30,640	31,360	32,180
29	36,420	-----	38,100	38,790	38,880	38,150	33,170	30,350	29,920	30,710	31,440	32,200
30	36,430	-----	38,100	38,760	38,910	38,050	33,050	30,280	29,920	30,770	31,460	32,230
31	36,500	-----	38,120	-----	38,990	-----	32,980	30,160	-----	30,810	-----	32,260
MAX	36,500	37,500	38,120	38,790	38,990	39,310	37,900	32,960	30,070	30,810	31,460	32,260
MIN	35,940	36,510	37,500	38,150	38,760	38,050	32,980	30,160	29,720	29,830	30,870	31,490
CHANGE	590	1,000	620	640	230	-940	-5,070	-2,820	-240	890	650	800
YEAR 1997			MEAN	34,760		MAX	39,310		MIN	29,720		

# REPUBLICAN RIVER BASIN

**RED WILLOW CREEK near McCook, 06837500 - 1997**

LOCATION.--SW1/4NW1/4 Sec. 6-4-29 W., Red Willow County, Lat. 40° 20' 50", Long. 100° 38' 35", on left bank 45 feet downstream from bridge on U.S. Highway 83, 3.0 miles downstream from Red Willow Dam, 10 miles north of McCook.

DRAINAGE AREA.--740 square miles, of which approximately 320 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 2485.97 feet National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1940 - 1947, Annual peaks 1958 - 1960, 1960 - 1993 by U.S.G.S., October 1993 - 1994 by Department of Water Resources, partial year record 1995 - present. See U.S.G.S. publication WSP 1310 for other periods.

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1993.  
E indicates estimated daily discharge. Estimated records June 1-6, September 12-30.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						5.6E	65	64	56			
2						5.6E	75	62	55			
3						5.6E	87	62	51			
4						5.6E	89	66	49			
5						5.6E	86	74	16			
6						5.6E	87	69	8.2			
7						5.7	85	59	7.7			
8						5.6	81	52	7.3			
9						5.4	79	49	6.5			
10						5.5	76	52	6.2			
11						5.2	78	51	5.9			
12						5.2	78	38	5.8E			
13						5.3	81	34	5.8E			
14						4.7	101	36	5.8E			
15						19	119	41	5.8E			
16						41	110	44	5.8E			
17						31	92	53	5.8E			
18						34	80	83	5.8E			
19						50	75	85	5.8E			
20						46	74	85	5.8E			
21						40	77	84	5.8E			
22						41	77	73	5.8E			
23						53	78	62	5.8E			
24						78	77	63	5.8E			
25						88	73	63	5.8E			
26						79	69	78	5.8E			
27						45	70	87	5.8E			
28						42	70	80	5.8E			
29		-----				44	66	75	5.8E			
30		-----				56	65	66	5.8E			
31		-----		-----		-----	65	64	-----		-----	
TOTAL						863.2	2,485	1,954	379.0			
MEAN						28.8	80.2	63.0	12.6			
MAX						88	119	87	56			
MIN						4.7	65	34	5.8			
AC-FT						1,710	4,930	3,880	752			

YEAR 1997 partial year record      TOTAL      5,681.2      MEAN      46.6      MAX      119      MIN      4.7      AC-FT      11,270

# REPUBLICAN RIVER BASIN

RED WILLOW CANAL from Red Willow Creek, 00126000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						0	40	54	43			
2						0	57	58	48			
3						0	65	58	46			
4						0	74	63	45			
5						0	74	65	15			
6						0	74	60	0			
7						0	68	48	0			
8						0	68	42	0			
9						0	70	40	0			
10						0	66	40	0			
11						0	67	34	0			
12						0	70	25	0			
13						0	70	26	0			
14						0	76	29	0			
15						0	86	36	0			
16						22	78	38	0			
17						31	75	38	0			
18						32	71	61	0			
19						32	69	77	0			
20						31	70	78	0			
21						31	67	74	0			
22						30	69	60	0			
23						38	71	55	0			
24						53	71	55	0			
25						62	65	57	0			
26						39	63	59	0			
27						25	64	55	0			
28						24	60	54	0			
29		-----				24	58	46	0			
30		-----				31	46	41	0			
31		-----		-----		-----	62	41	-----		-----	
TOTAL						505	2,084	1,567	197			
MEAN						16.8	67.2	50.5	6.57			
MAX						62	86	78	48			
MIN						0	40	25	0			
AC-FT						1,000	4,130	3,110	391			
YEAR 1997	MAX	86	MIN	0	AC-FT	8,630						

# REPUBLICAN RIVER BASIN

**BARTLEY CANAL from Republican River, 00006000 - 1997**

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

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

PERIOD OF RECORD.--1955 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						0	87	55	58			
2						0	95	51	56			
3						0	99	51	50			
4						0	94	66	39			
5						0	90	78	11			
6						0	90	65	0			
7						0	82	45	0			
8						0	84	30	0			
9						0	81	24	0			
10						0	72	25	0			
11						0	74	16	0			
12						19	72	11	0			
13						27	78	11	0			
14						26	93	11	0			
15						26	100	27	0			
16						26	104	34	0			
17						32	103	34	0			
18						36	90	63	0			
19						42	81	73	0			
20						45	80	78	0			
21						46	89	80	0			
22						47	91	73	0			
23						59	80	69	0			
24						71	75	69	0			
25						81	73	76	0			
26						45	72	74	0			
27						23	73	68	0			
28						24	77	58	0			
29		-----				33	86	53	0			
30		-----				54	83	53	0			
31		-----		-----		-----	68	53	-----		-----	
TOTAL						762	2,616	1,574	214			
MEAN						25.4	84.4	50.8	7.13			
MAX						81	104	80	58			
MIN						0	68	11	0			
AC-FT						1,510	5,190	3,120	424			
YEAR 1997	MAX	104	MIN	0	AC-FT	10,250						

# REPUBLICAN RIVER BASIN

## MEDICINE CREEK above Harry Strunk Lake, 06841000 - 1997

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.

E indicates estimated daily discharge. Estimated records January 1-February 2, August 10-September 2. Records good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 11,600 cubic feet per second June 21, 1967, gage height 20.05 feet; minimum daily discharge 9.1 cubic feet per second August 9, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,290 cubic feet per second June 26, gage height 14.00 feet; minimum daily discharge 32 cubic feet per second July 26-27.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	52E	60E	61	58	56	55	65	43	40E	39	61	59
2	50E	64E	61	59	57	54	56	43	40E	38	57	59
3	47E	68	61	61	56	56	51	41	39	39	55	57
4	44E	67	61	67	56	62	49	40	39	39	55	57
5	41E	64	60	68	55	64	48	37	39	39	54	57
6	38E	64	60	66	55	59	48	39	39	39	53	57
7	38E	63	60	61	55	54	48	40	38	39	53	55
8	40E	62	60	58	54	51	46	44	38	39	54	55
9	42E	62	61	58	52	50	44	42	37	39	53	53
10	42E	62	63	58	51	47	43	41E	38	41	53	55
11	39E	61	64	58	51	52	42	43E	38	42	53	55
12	36E	60	65	58	50	68	42	52E	37	107	53	57
13	36E	60	65	60	50	62	42	60E	37	128	53	55
14	38E	60	62	64	50	55	41	54E	37	118	53	55
15	40E	60	62	67	50	55	42	47E	39	74	54	55
16	42E	61	60	65	50	51	43	45E	45	61	55	55
17	44E	62	61	63	50	51	40	43E	44	56	52	55
18	46E	66	62	60	49	49	38	42E	40	54	53	55
19	48E	66	63	59	49	47	36	41E	38	52	51	56
20	50E	68	63	58	49	45	36	40E	37	51	51	56
21	50E	67	64	58	48	50	36	40E	37	51	53	56
22	47E	65	64	57	48	55	36	41E	40	51	54	57
23	44E	63	63	57	50	50	35	42E	43	51	55	56
24	41E	62	62	56	52	47	34	41E	45	54	55	57
25	38E	61	61	55	56	48	33	40E	45	63	55	57
26	38E	61	60	55	58	797	32	39E	44	80	56	56
27	41E	60	59	55	63	382	32	38E	43	74	57	58
28	44E	61	59	55	65	232	33	38E	41	69	58	57
29	47E	-----	59	56	62	127	34	38E	40	68	61	57
30	50E	-----	59	55	61	84	38	38E	39	68	60	58
31	54E	-----	59	-----	58	-----	40	39E	-----	66	-----	59
TOTAL	1,347	1,760	1,904	1,785	1,666	2,959	1,283	1,311	1,196	1,829	1,640	1,746
MEAN	43.5	62.9	61.4	59.5	53.7	98.6	41.4	42.3	39.9	59.0	54.7	56.3
MAX	54	68	65	68	65	797	65	60	45	128	61	59
MIN	36	60	59	55	48	45	32	37	37	38	51	53
AC-FT	2,670	3,490	3,780	3,540	3,300	5,870	2,540	2,600	2,370	3,630	3,250	3,460
YEAR 1997	TOTAL	20,426	MEAN	56.0	MAX	797	MIN	32	AC-FT	40,510		





# REPUBLICAN RIVER BASIN

## MEDICINE CREEK below Harry Strunk Lake, 06842500 - 1997

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 good, records from 5 to 10 cubic feet per second fair, records below 5 cubic feet per second 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 359 cubic feet per second August 26, gage height 2.84 feet; minimum daily discharge 0.16 cubic feet per second September 19.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	59	59	60	35	1.4	52	157	171	142	.36	.30	.41
2	59	59	60	35	2.5	53	229	159	127	.34	.31	.49
3	59	59	60	35	1.4	69	263	178	141	.30	.32	.50
4	59	59	60	35	1.6	78	256	148	126	.37	.38	.49
5	59	59	60	36	1.8	78	253	197	13	.35	.32	.49
6	59	59	60	36	2.1	76	255	225	1.1	.38	.38	.49
7	58	59	60	35	3.5	74	234	150	.76	.34	.38	.49
8	57	59	60	35	4.3	72	223	105	1.1	.40	.36	.49
9	57	59	60	36	3.2	72	223	103	1.3	.39	.38	.66
10	57	59	60	36	2.4	77	211	117	1.2	.49	.32	.66
11	57	59	48	36	6.4	72	203	91	.66	.41	.40	.66
12	58	59	35	35	8.4	66	203	36	.63	1.1	.64	.66
13	59	59	36	35	9.0	61	233	26	.42	.36	.78	.66
14	59	59	36	15	9.9	60	320	27	.35	.45	.65	.66
15	59	59	35	.97	11	59	343	27	.25	.38	.66	.66
16	59	59	35	.97	12	59	339	45	.17	.48	.52	.66
17	59	59	34	.97	13	59	318	63	.17	.30	.49	.66
18	59	59	35	.98	15	71	269	154	.17	.23	.49	.66
19	59	59	36	1.3	17	78	250	209	.16	.24	.44	.66
20	59	59	36	.99	17	78	250	195	.25	.25	.49	.66
21	60	59	36	.99	17	78	260	214	.37	.42	.49	.66
22	61	60	36	1.1	18	78	270	196	.40	.35	.49	.66
23	60	60	36	1.3	21	58	253	183	.46	.36	.49	.66
24	60	60	36	1.4	21	59	233	209	.40	1.1	.49	.66
25	60	60	35	1.3	22	106	234	310	.32	.55	.42	.66
26	60	60	35	1.4	24	138	239	348	.30	.30	.49	.71
27	60	60	36	1.7	40	152	244	345	.25	.30	.47	.84
28	60	60	36	1.8	52	161	246	299	.27	.30	.59	.66
29	60	-----	36	1.7	52	157	238	233	.40	.24	.71	.66
30	60	-----	36	1.3	51	154	237	201	.35	.24	.46	.61
31	60	-----	36	-----	52	-----	221	203	-----	.27	-----	.49
TOTAL	1,831	1,659	1,360	495.17	512.9	2,505	7,707	5,167	561.21	12.35	14.11	19.04
MEAN	59.1	59.3	43.9	16.5	16.5	83.5	249	167	18.7	.40	.47	.61
MAX	61	60	60	36	52	161	343	348	142	1.1	.78	.84
MIN	57	59	34	.97	1.4	52	157	26	.16	.23	.30	.41
AC-FT	3,630	3,290	2,700	982	1,020	4,970	15,290	10,250	1,110	24	28	38
YEAR 1997	TOTAL	21,843.78	MEAN	59.8	MAX	348	MIN	.16	AC-FT	43,330		

# REPUBLICAN RIVER BASIN

**CAMBRIDGE CANAL from Republican River, 00020000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						0	214	198	118			
2						0	236	180	122			
3						0	256	181	119			
4						0	250	218	104			
5						0	246	242	31			
6						0	244	245	0			
7						0	229	211	0			
8						0	222	172	0			
9						23	221	160	0			
10						58	208	159	0			
11						70	201	116	0			
12						81	202	77	0			
13						72	201	66	0			
14						61	253	61	0			
15						61	284	59	0			
16						61	287	59	0			
17						73	289	60	0			
18						81	256	110	0			
19						82	237	145	0			
20						82	235	147	0			
21						83	242	162	0			
22						84	241	171	0			
23						109	221	171	0			
24						123	219	170	0			
25						146	204	239	0			
26						159	198	287	0			
27						156	198	280	0			
28						151	229	235	0			
29		-----				151	246	155	0			
30		-----				168	254	126	0			
31		-----		-----		-----	251	126	-----		-----	
TOTAL						2,135	7,274	4,988	494			
MEAN						71.2	235	161	16.5			
MAX						168	289	287	122			
MIN						0	198	59	0			
AC-FT						4,230	14,430	9,890	980			
YEAR 1997	MAX	289	MIN	0	AC-FT	29,540						

# REPUBLICAN RIVER BASIN

**TURKEY CREEK at Edison, 06844210 - 1997**

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.

E indicates estimated daily discharge. Estimated records January 1-2, 8-17, 27-28, December 6-11. Records are good, except estimated records are fair.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1,040 cubic feet per second July 27, 1993, gage height 14.28 feet; minimum daily discharge 0.01 cubic feet per second September 6, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharge 120 cubic feet per second October 15, gage height 5.99 feet; minimum daily discharge 4.7 cubic feet per second September 12.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17 E	24	21	19	20	17	13	5.4	6.8	7.4	13	14
2	19 E	22	21	20	20	17	12	6.1	6.0	7.3	12	13
3	20	21	21	20	20	17	12	5.4	5.7	7.4	11	13
4	19	20	20	20	19	18	12	5.2	5.3	7.6	11	13
5	18	20	19	21	19	18	11	5.7	5.3	7.7	12	9.9
6	16	18	19	21	19	17	11	6.8	5.8	7.4	12	9.0E
7	12	19	19	20	18	17	11	6.7	5.8	7.5	11	9.2E
8	11 E	19	20	19	18	17	10	5.0	5.1	7.6	12	9.2E
9	10 E	19	20	19	18	17	9.8	5.1	4.9	7.8	12	9.4E
10	10 E	19	20	19	17	17	10	5.5	5.0	8.4	12	9.6E
11	10 E	18	20	20	17	17	9.8	6.9	5.2	8.4	12	9.4E
12	10 E	18	21	21	17	19	8.7	7.6	4.7	14	12	9.5
13	11 E	18	21	20	17	18	8.5	5.9	4.9	62	12	12
14	12 E	18	21	20	17	17	9.1	6.6	4.9	15	13	14
15	13 E	19	20	20	17	17	9.0	11	4.8	10	11	15
16	14 E	21	20	19	16	17	9.0	6.9	4.8	9.8	10	12
17	15 E	21	20	19	16	17	8.0	5.6	5.0	9.7	12	12
18	16	20	20	19	16	17	8.2	5.6	5.3	9.7	13	11
19	23	20	20	19	16	17	7.9	6.3	5.3	9.5	14	12
20	31	19	20	19	16	16	8.3	6.4	5.3	10	14	11
21	25	19	19	20	16	16	8.3	6.0	5.6	10	16	11
22	23	19	20	20	16	16	7.9	6.3	6.5	10	13	11
23	20	19	19	19	17	16	7.1	6.9	7.8	10	13	11
24	18	20	20	19	19	16	6.4	6.7	8.5	11	12	11
25	15	20	19	19	18	16	6.4	6.4	8.7	14	12	11
26	9.3	20	19	19	18	17	6.6	6.2	7.4	17	13	11
27	9.0E	21	19	19	19	15	6.5	6.2	7.1	12	13	11
28	12 E	21	19	19	18	15	6.8	6.1	7.3	15	13	11
29	15	-----	19	20	17	15	6.5	6.1	7.1	13	15	11
30	33	-----	19	20	18	14	6.8	6.0	7.2	13	16	11
31	28	-----	19	-----	17	-----	6.1	6.2	-----	13	-----	11
TOTAL	514.3	552	614	588	546	500	273.7	194.8	179.1	372.2	377	348.2
MEAN	16.6	19.7	19.8	19.6	17.6	16.7	8.83	6.28	5.97	12.0	12.6	11.2
MAX	33	24	21	21	20	19	13	11	8.7	62	16	15
MIN	9.0	18	19	19	16	14	6.1	5.0	4.7	7.3	10	9.0
AC-FT	1,020	1,090	1,220	1,170	1,080	992	543	386	355	738	748	691
YEAR 1997	TOTAL	5,059.3	MEAN	13.9	MAX	62	MIN	4.7	AC-FT	10,040		

# REPUBLICAN RIVER BASIN

**BEAVER CREEK near Beaver City, 06847000 - 1997**

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.  
E indicates estimated daily discharges. Estimated daily discharges January 5-6, 25, February 2, 6, 8, 10-11, 13-15, 23-25, 27-28, April 11-12. Records fair, except estimated records poor and records below 5 cubic feet per second 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 439 cubic feet per second June 26, gage height 8.95 feet; minimum daily discharge 0.48 cubic feet per second September 19.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15	14	17	15	16	13	9.4	1.6	.90	.71	1.5	2.0
2	14	14E	16	16	16	13	8.8	1.4	.90	.68	1.5	2.2
3	15	14	18	16	16	13	8.4	1.5	.90	.64	1.5	2.2
4	15	13	16	16	16	12	7.9	1.4	.90	.63	1.5	2.2
5	14E	13	17	16	16	12	7.8	1.2	.97	.64	.83	2.1
6	14E	13E	17	15	16	12	7.5	1.6	.96	.64	1.2	2.2
7	14	14	17	14	16	12	7.6	1.6	.86	.63	1.6	2.2
8	13	14E	17	13	16	15	7.0	1.4	.75	.56	1.6	2.3
9	14	13	18	14	15	33	6.6	1.4	.74	.70	1.6	2.3
10	14	13E	18	14	15	27	6.3	1.4	.70	.71	1.6	2.4
11	13	13E	19	12E	16	22	5.8	1.7	.68	.75	1.5	2.3
12	14	13	18	12E	16	20	5.5	1.7	.61	1.2	1.5	2.3
13	15	13E	18	13	16	19	5.2	1.5	.62	1.1	1.6	2.3
14	16	14E	18	14	16	17	4.5	1.3	.64	.97	1.6	2.3
15	16	14E	18	15	15	16	4.1	1.2	.68	.88	1.6	2.4
16	15	15	18	14	15	15	3.8	1.1	.61	.80	1.5	2.5
17	16	16	19	15	15	14	3.2	1.1	.55	.79	1.6	2.5
18	16	16	19	15	14	13	2.9	1.1	.53	.88	1.6	2.4
19	15	16	19	15	14	12	2.6	1.2	.48	.90	1.6	2.4
20	15	17	19	15	14	11	2.6	1.1	.52	.90	1.6	2.5
21	14	17	19	15	14	11	2.6	1.1	.55	.91	1.6	2.4
22	14	16	19	15	14	10	2.6	1.0	.87	.90	1.7	2.4
23	14	15E	19	15	15	9.5	2.4	1.0	1.5	.90	1.7	2.4
24	13	15E	18	15	14	8.8	2.2	1.1	1.3	1.4	1.7	2.6
25	12E	15E	17	15	14	13	2.0	1.0	.94	1.7	1.6	2.7
26	12	16	17	15	14	255	1.8	.96	.85	1.7	1.5	2.6
27	13	15E	17	15	14	34	1.6	.99	.80	1.5	1.6	2.5
28	14	15E	16	15	14	17	1.6	.94	.79	1.5	1.7	2.8
29	14	-----	16	16	14	12	1.8	.97	.75	1.5	2.1	2.8
30	15	-----	16	16	14	10	1.8	.91	.70	1.7	2.0	2.8
31	14	-----	16	-----	13	-----	1.7	.90	-----	1.7	-----	2.9
TOTAL	442	406	546	441	463	701.3	139.6	38.37	23.55	31.12	47.33	74.9
MEAN	14.3	14.5	17.6	14.7	14.9	23.4	4.50	1.24	.79	1.00	1.58	2.42
MAX	16	17	19	16	16	255	9.4	1.7	1.5	1.7	2.1	2.9
MIN	12	13	16	12	13	8.8	1.6	.90	.48	.56	.83	2.0
AC-FT	877	805	1,080	875	918	1,390	277	76	47	62	94	149
YEAR 1997	TOTAL	3,354.17	MEAN	9.19	MAX	255	MIN	.48	AC-FT	6,650		

# REPUBLICAN RIVER BASIN

## HARLAN COUNTY RESERVOIR near Republican City, 06849000 - 1997

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.--Published by U.S. Geological Survey up to Oct. 1, 1994.  
Area and storage data provided by the U.S. Army Corps of Engineers.

STORAGE CAPACITY TABLE.--elevation in feet, storage in acre-feet

1,928	128,300	1,940	243,100	1,955	449,810
1,930	144,300	1,945	302,000	1,960	536,460
1,935	190,800	1,950	371,310		

### DAILY CONTENTS IN ACRE-FEET FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	307,200	325,900	349,400	369,700	343,000	342,700	336,500	283,900	255,400	254,300	262,300	272,700
2	307,800	326,600	349,800	371,000	343,400	343,000	334,400	282,400	254,600	254,300	263,100	273,500
3	308,600	327,600	350,900	371,200	343,100	342,700	333,000	280,800	254,200	254,300	262,400	274,200
4	309,600	328,300	351,500	370,900	343,100	343,100	330,900	279,100	253,800	254,200	262,800	274,300
5	310,100	329,000	352,400	370,400	342,800	343,200	329,600	277,500	253,600	254,200	263,000	274,700
6	310,900	330,000	352,900	367,600	342,400	343,100	327,600	276,300	253,400	254,100	263,200	274,800
7	311,500	330,800	354,000	365,900	342,700	343,000	325,700	274,600	253,300	253,800	263,400	274,900
8	312,300	331,800	355,000	364,600	342,400	342,800	324,800	272,700	253,100	254,100	264,000	275,400
9	313,000	332,700	355,700	363,300	342,300	342,800	323,400	271,400	252,800	253,800	264,100	276,000
10	313,500	333,300	356,100	362,200	342,000	342,800	321,800	269,800	252,700	253,800	264,300	276,500
11	314,000	334,100	357,000	361,500	341,700	343,100	319,900	269,600	252,400	253,500	264,600	276,900
12	314,400	334,800	358,000	360,000	341,300	343,100	318,400	268,600	252,500	255,400	265,000	277,200
13	315,000	335,600	358,700	358,300	341,300	343,200	317,200	267,500	252,400	255,200	265,500	277,400
14	315,500	336,300	358,700	357,100	340,900	343,100	315,500	267,200	252,300	255,300	265,700	277,900
15	316,000	337,000	359,500	356,000	340,600	343,100	313,600	266,900	252,200	255,400	265,600	278,500
16	316,400	337,800	360,300	354,700	340,600	343,100	311,800	266,000	252,200	255,500	265,700	278,600
17	316,800	338,800	361,200	353,400	340,600	343,100	309,900	265,200	251,900	255,700	266,200	279,200
18	317,400	339,800	361,800	352,100	340,600	342,800	308,400	265,100	251,800	255,900	266,200	279,700
19	317,800	340,300	362,400	350,500	340,200	342,000	306,500	264,900	251,500	255,800	266,400	280,000
20	318,400	341,600	363,300	349,400	339,900	341,800	304,700	264,200	251,300	255,800	266,700	280,400
21	319,100	342,100	363,700	348,200	339,500	340,500	303,000	263,400	251,200	255,700	267,200	281,200
22	319,600	342,800	364,300	346,900	339,600	339,400	301,200	263,300	251,800	255,700	267,500	281,600
23	320,300	344,000	364,600	345,500	340,500	338,300	299,200	262,700	253,700	255,900	267,900	282,000
24	321,000	345,200	365,900	344,100	340,200	338,000	297,100	262,200	253,800	257,100	268,200	282,800
25	321,500	346,100	366,000	343,700	342,000	338,000	295,100	261,500	254,000	259,000	268,900	283,600
26	322,600	347,100	366,300	343,400	342,000	337,400	293,500	260,300	254,100	259,500	268,900	283,900
27	323,200	347,400	367,200	342,700	342,100	337,400	291,800	259,400	254,300	259,700	269,500	284,400
28	323,400	348,800	367,500	342,300	342,100	338,900	290,200	258,200	254,300	260,100	271,000	284,700
29	324,100	-----	368,400	342,400	342,700	338,700	288,400	257,600	254,200	260,800	272,100	285,100
30	324,800	-----	368,800	342,700	342,700	337,100	286,600	256,800	254,300	261,200	272,300	285,500
31	325,200	-----	369,100	-----	342,700	-----	285,100	255,500	-----	261,800	-----	285,800
MAX	325,200	348,800	369,100	371,200	343,400	343,200	336,500	283,900	255,400	261,800	272,300	285,800
MIN	307,200	325,900	349,400	342,300	339,500	337,100	285,100	255,500	251,200	253,500	262,300	272,700
CHANGE	18,629	23,595	20,316	-26,420	0	-5,533	-52,048	-29,553	-1,249	7,518	10,505	13,510
YEAR 1997			MEAN	306,900	MAX	371,200	MIN	251,200				

# REPUBLICAN RIVER BASIN

NAPONEE CANAL from Republican River, 00105000 -- 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						0	34	18	19			
2						0	35	15	7.0			
3						0	32	18	0			
4						0	27	26	0			
5						0	25	30	0			
6						0	27	27	0			
7						0	30	25	0			
8						0	30	22	0			
9						0	30	20	0			
10						0	32	20	0			
11						0	33	9.0	0			
12						0	33	0	0			
13						0	33	0	0			
14						0	33	0	0			
15						0	31	0	0			
16						0	29	0	0			
17						0	29	0	0			
18						6.0	29	0	0			
19						0	27	0	0			
20						7.0	25	0	0			
21						18	27	0	0			
22						20	31	0	0			
23						22	32	0	0			
24						25	32	8.0	0			
25						26	32	19	0			
26						26	32	26	0			
27						26	32	29	0			
28						26	28	29	0			
29		-----				26	25	27	0			
30		-----				29	25	21	0			
31		-----		-----		-----	23	19	-----		-----	
TOTAL						257.0	923	408.0	26.0			
MEAN						8.57	29.8	13.2	.87			
MAX						29	35	30	19			
MIN						0	23	0	0			
AC-FT						510	1,830	809	52			
YEAR 1997	MAX	35	MIN	0	AC-FT	3,200						

## REPUBLICAN RIVER BASIN

## FRANKLIN CANAL from Republican River, 00053000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1							231	248	237			
2						0	241	248	209			
3						0	246	248	176			
4						0	250	252	149			
5						0	252	254	135			
6						0	251	254	110			
7						0	253	254	102			
8						0	250	253	91			
9						0	251	253	26			
10						0	250	250	0			
11						0	250	225	0			
12						0	249	183	0			
13						0	249	177	0			
14						0	249	139	0			
15						0	247	102	0			
16						0	248	102	0			
17						0	250	113	0			
18						0	250	131	0			
19						0	249	119	0			
20						72	249	111	0			
21						105	248	111	0			
22						119	248	111	0			
23						154	249	117	0			
24						169	250	131	0			
25						168	249	176	0			
26						168	248	219	0			
27						168	249	235	0			
28						179	248	249	0			
29		-----				195	248	250	0			
30		-----				218	248	250	0			
31		-----		-----		-----	248	250	-----		-----	
TOTAL						1,715	7,698	6,015	1,235			
MEAN						59.1	248	194	41.2			
MAX						218	253	254	237			
MIN						0	231	102	0			
AC-FT						3,400	15,270	11,930	2,450			
YEAR 1997	MAX	254	MIN	0	AC-FT	33,050						

# REPUBLICAN RIVER BASIN

## THOMPSON CREEK at Riverton, 06851500 - 1997

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.

E indicates estimated daily discharge. Estimated daily discharges; January 1-20, 24-31, February 6-13, 23-28, March 4, March 14-15, July 28-August 6, October 24-28, November 13-17, December 3-7, 11-12, 21-30. Records 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 442 cubic feet per second November 29, gage height 6.69 feet; minimum daily discharge 13 cubic feet per second estimated August 4-6.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16E	19	23	23	26	28	18	18E	23	14	32	68
2	17E	22	25	29	28	25	16	17E	22	15	21	59
3	18E	22	24	26	27	26	19	14E	21	14	16	50E
4	18E	22	23E	30	30	26	19	13E	20	15	15	40E
5	19E	20	23	30	24	23	20	13E	18	16	15	34E
6	19E	20E	20	27	25	22	20	13E	17	15	15	35E
7	20E	20E	19	28	25	20	19	15	17	17	17	36E
8	19E	21E	19	25	22	21	21	15	17	19	17	36
9	17E	21E	20	26	23	22	22	19	18	18	19	34
10	16E	20E	20	31	22	22	21	23	17	18	18	33
11	15E	20E	20	29	21	24	20	30	17	20	20	31E
12	15E	21E	19	26	22	25	21	34	17	25	23	27E
13	14E	22E	18	24	22	21	22	30	17	22	22E	28
14	18E	23	16E	24	22	20	19	173	17	22	21E	28
15	18E	25	15E	24	21	19	15	47	17	22	21E	26
16	18E	25	16	24	21	19	14	33	17	20	19E	25
17	17E	25	19	24	22	18	14	33	17	19	22E	24
18	19E	25	17	23	22	19	14	34	17	20	23	22
19	22E	28	18	22	22	19	14	37	17	20	23	21
20	24E	27	21	23	23	19	16	29	17	18	21	21
21	25	27	21	23	23	19	16	26	17	19	19	19E
22	26	28	25	24	25	18	16	26	18	20	18	19E
23	26	27E	26	23	24	21	16	25	22	19	17	19E
24	24E	25E	28	23	28	33	17	23	25	25E	17	19E
25	23E	23E	26	24	32	37	15	22	21	33E	16	19E
26	20E	24E	25	22	39	35	18	23	16	100E	14	18E
27	17E	22E	26	23	78	27	21	21	15	23E	14	18E
28	16E	23E	27	26	34	21	22E	21	15	22E	14	18E
29	15E	-----	27	26	31	22	21E	22	15	23	270	18E
30	17E	-----	25	25	31	20	19E	21	15	25	124	18E
31	20E	-----	23	-----	30	-----	19E	22	-----	26	-----	18
TOTAL	588	647	674	757	845	691	564	892	539	704	923	881
MEAN	19.0	23.1	21.7	25.2	27.3	23.0	18.2	28.8	18.0	22.7	30.8	28.4
MAX	26	28	28	31	78	37	22	173	25	100	270	68
MIN	14	19	15	22	21	18	14	13	15	14	14	18
AC-FT	1,170	1,280	1,340	1,500	1,680	1,370	1,120	1,770	1,070	1,400	1,830	1,750
YEAR 1997	TOTAL	8,705	MEAN	23.8	MAX	270	MIN	13	AC-FT	17,270		



# REPUBLICAN RIVER BASIN

FRANKLIN PUMP CANAL from Republican River, 00054000 - 1997

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						0	16	28	9.3			
2						0	35	26	0			
3						0	44	25	0			
4						0	46	28	0			
5						0	44	31	0			
6						0	43	31	0			
7						0	42	28	0			
8						0	43	24	0			
9						0	38	19	0			
10						0	0	16	0			
11						0	0	6.3	0			
12						0	0	0	0			
13						0	0	0	0			
14						0	13	0	0			
15						0	40	0	0			
16						0	45	0	0			
17						0	44	0	0			
18						0	45	0	0			
19						0	45	0	0			
20						0	46	0	0			
21						0	45	0	0			
22						0	44	0	0			
23						0	43	0	0			
24						0	42	0	0			
25						0	42	22	0			
26						0	38	34	0			
27						0	37	37	0			
28						0	33	36	0			
29		-----				0	30	30	0			
30		-----				4.5	29	25	0			
31		-----		-----		-----	29	24	-----		-----	
TOTAL						4.5	1,041	470.3	9.3			
MEAN						15	33.6	15.2	.31			
MAX						4.5	46	37	9.3			
MIN						0	0	0	0			
AC-FT						8.9	2,060	933	18			
YEAR 1997	MAX	46	MIN	0	AC-FT	3,030						

# REPUBLICAN RIVER BASIN

**ELM CREEK at Amboy, 06852000 - 1997**

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.--1946 - 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.  
 E indicates estimated daily discharge. Estimated records January 10-11, 16-17, 28-29, June 10-12, October 25-27.  
 Records good, except estimated records poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 7,800 cubic feet per second September 29, 1983 at gage height 16.96 ft. from flood mark; maximum gage height 17.05 ft. July 4, 1959; minimum daily discharge 6.2 cubic feet per second August 28, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharge 340 cubic feet per second June 24, gage height 11.69 feet; minimum daily discharge 10 cubic feet per second August 27-31, September 6, 15-20.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17	16	17	16	15	14	16	11	11	11	76	51
2	17	16	17	16	16	13	15	11	11	11	83	22
3	17	16	17	16	15	17	15	11	11	11	38	18
4	17	16	16	16	14	16	14	11	11	11	22	17
5	17	16	16	17	14	15	14	11	11	11	17	16
6	16	16	16	15	14	14	14	11	10	11	14	15
7	17	16	16	15	14	14	14	12	11	11	14	15
8	17	16	17	15	14	14	30	12	11	12	14	15
9	16	16	17	15	14	13	16	12	11	12	13	15
10	15E	16	16	15	14	14E	16	12	11	12	13	15
11	15E	16	16	16	14	14E	15	14	11	12	13	15
12	15	16	16	15	14	15E	15	13	11	15	14	15
13	15	16	17	16	14	15	14	13	11	14	14	15
14	16	16	16	16	14	15	14	15	11	12	13	15
15	16	16	16	15	14	15	13	13	10	12	13	15
16	15E	16	17	15	13	15	13	12	10	12	13	15
17	15E	16	17	15	13	15	13	13	10	12	13	15
18	16	17	16	15	13	14	12	13	10	12	13	14
19	16	16	16	15	13	14	13	14	10	12	13	15
20	16	16	16	14	13	14	13	13	10	12	13	14
21	16	16	16	14	13	27	13	13	11	12	13	14
22	16	16	16	14	13	17	13	13	11	12	13	15
23	16	16	16	14	14	15	12	12	12	12	13	15
24	16	16	17	14	13	108	12	12	13	13	13	15
25	16	16	16	14	15	112	12	12	12	19E	13	15
26	16	16	16	14	19	26	11	11	11	30E	13	15
27	15	16	16	14	25	19	11	10	11	24E	13	15
28	15E	17	16	14	26	17	13	10	11	19	13	15
29	15E	-----	16	14	17	17	13	10	11	18	51	15
30	16	-----	16	16	15	16	13	10	11	18	145	15
31	16	-----	16	-----	14	-----	12	10	-----	21	-----	15
TOTAL	494	450	505	450	463	664	434	370	327	436	736	511
MEAN	15.9	16.1	16.3	15.0	14.9	22.1	14.0	11.9	10.9	14.1	24.5	16.5
MAX	17	17	17	17	26	112	30	15	13	30	145	51
MIN	15	16	16	14	13	13	11	10	10	11	13	14
AC-FT	980	893	1,000	893	918	1,320	861	734	649	865	1,460	1,010
YEAR 1997	TOTAL	5,840	MEAN	16.0	MAX	145	MIN	10	AC-FT	11,580		

# REPUBLICAN RIVER BASIN

COURTLAND CANAL from Republican River, 00031000 - 1997

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

GAGE.--Continuous stage recorder and orifice

PERIOD OF RECORD.--1952 -present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997												
Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					0	205	315	415	185			
2					0	222	365	422	186			
3					0	238	407	418	187			
4					0	218	423	410	187			
5					0	144	426	409	183			
6					0	115	429	403	181			
7					0	114	434	412	176			
8					0	114	448	411	177			
9					0	114	413	415	184			
10					0	115	393	417	180			
11					0	114	398	426	141			
12					0	114	394	427	133			
13					0	114	397	317	128			
14					0	115	416	292	128			
15					0	115	441	254	74			
16					0	146	456	240	0			
17					0	171	441	240	0			
18					0	169	434	237	0			
19					0	207	435	239	0			
20					0	228	430	236	0			
21					0	280	437	234	0			
22					108	312	442	233	0			
23					203	349	441	234	0			
24					204	181	436	234	0			
25					205	72	429	231	0			
26					206	68	409	230	0			
27					210	57	398	227	0			
28					210	92	402	194	0			
29		-----			207	148	414	182	0			
30		-----			206	231	392	183	0			
31		-----		-----	206	-----	410	184	-----		-----	
TOTAL					1,965	4,882	12,905	9,406	2,430			
MEAN					63.4	163	416	303	81.0			
MAX					210	349	456	427	187			
MIN					0	57	315	182	0			
AC-FT					3,900	9,680	25,600	18,660	4,820			
YEAR 1997	206	MAX	456	MIN	0	AC-FT	62,650					

# REPUBLICAN RIVER BASIN

**SUPERIOR CANAL from Republican River, 00137000 - 1997**

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 FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						0	88	68	43			
2						0	95	68	43			
3						0	113	94	20			
4						0	130	115	0			
5						0	131	115	0			
6						0	131	88	0			
7						0	131	87	0			
8						0	57	94	0			
9						0	0	100	0			
10						0	22	99	0			
11						0	77	90	0			
12						0	85	78	0			
13						0	85	72	0			
14						0	111	61	0			
15						0	134	43	0			
16						0	138	41	0			
17						0	141	42	0			
18						50	140	43	0			
19						81	139	44	0			
20						80	139	55	0			
21						79	139	59	0			
22						78	132	50	0			
23						79	133	45	0			
24						58	140	45	0			
25						18	136	45	0			
26						0	137	45	0			
27						0	138	44	0			
28						48	118	44	0			
29						77	75	44	0			
30		-----				78	66	44	0			
31		-----		-----		-----	67	43	-----		-----	
TOTAL						726	3,368	2,005	106			
MEAN						24.2	109	64.7	3.53			
MAX						81	141	115	43			
MIN						0	0	41	0			
AC-FT						1,440	6,680	3,980	210			
YEAR 1997	MAX	141	MIN	0	AC-FT	12,310						

## BIG BLUE RIVER BASIN

## BIG BLUE RIVER at Surprise, 06879900 - 1997

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.

E indicates estimated daily discharge. Estimated records January 1-3, 9-30, February 6-March 7, March 12-13. Records are good, except estimated records are poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 175 cubic feet per second July 1, gage height 2.76 feet; minimum daily discharge 0.21 cubic feet per second October 1.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4.8E	6.3	6.0E	10	8.4	7.4	71	3.0	.31	.21	9.3	7.5
2	5.2E	6.5	5.8E	10	9.2	7.1	35	3.4	.52	.22	11	5.6
3	6.0E	5.9	5.8E	12	7.9	7.1	18	3.0	.67	.49	12	5.0
4	7.2	5.9	5.8E	13	6.8	6.1	9.7	2.3	.62	.61	10	4.0
5	6.4	6.5	5.2E	13	6.4	5.3	6.2	2.2	.63	.75	9.6	3.3
6	5.9	6.0E	5.8E	12	6.2	5.8	5.0	.99	.82	.78	8.3	3.5
7	5.4	5.6E	6.8E	11	6.6	5.1	4.1	.85	1.1	.64	6.8	3.5
8	5.0	5.6E	7.5	11	31	5.0	4.1	.74	.84	.93	5.2	3.7
9	4.5E	6.0E	9.7	10	22	5.2	4.2	1.0	.94	.79	4.4	3.7
10	3.6E	6.0E	7.7	10	10	5.8	5.3	1.3	.93	1.0	4.0	3.4
11	3.4E	6.0E	5.8	12	7.7	6.3	7.5	22	.97	1.3	3.8	3.1
12	3.4E	6.2E	5.2E	11	6.3	6.1	4.6	29	.96	3.0	3.6	3.1
13	3.7E	5.8E	5.0E	13	5.6	5.8	4.4	40	.89	3.9	3.8	3.2
14	3.9E	6.0E	4.8	13	5.0	5.0	4.5	47	.78	3.0	3.8	3.4
15	4.1E	6.4E	5.4	11	4.6	5.9	2.9	51	.78	2.4	3.6	3.4
16	3.9E	6.4E	7.2	8.4	5.0	5.0	2.9	38	2.9	2.3	3.5	3.5
17	3.8E	6.6E	7.8	8.0	4.8	4.7	4.2	23	2.9	1.7	3.6	3.4
18	4.0E	6.4E	7.0	7.5	4.8	4.4	5.8	16	1.9	1.8	3.9	3.7
19	4.7E	6.2E	7.6	7.1	4.5	5.2	5.0	15	.97	1.9	3.9	3.6
20	5.0E	6.2E	8.3	6.6	4.3	4.4	8.2	10	.95	2.2	3.9	3.6
21	6.2E	6.4E	8.6	6.7	3.9	4.7	8.4	7.3	.55	2.4	3.9	3.2
22	5.8E	6.0E	8.9	6.9	4.4	5.3	3.0	5.4	1.2	2.1	3.8	3.6
23	5.2E	5.4E	9.5	6.5	5.1	5.1	1.8	3.2	3.9	2.3	3.8	3.8
24	5.0E	5.2E	11	5.9	6.5	6.5	1.7	2.0	8.3	2.7	3.6	4.3
25	4.8E	5.2E	11	5.5	6.9	5.8	3.0	1.1	6.9	16	3.8	3.9
26	4.5E	6.0E	11	4.9	11	7.1	2.5	.68	3.7	25	3.8	3.4
27	4.5E	6.4E	9.6	5.1	12	7.4	3.1	.68	3.1	23	3.7	3.5
28	4.6E	6.2E	11	5.4	9.7	7.2	1.9	.67	1.3	15	3.2	4.0
29	4.8E	-----	10	4.8	9.1	7.2	1.9	.41	.55	18	5.3	3.6
30	5.2E	-----	9.5	7.3	8.8	7.1	3.0	.85	.44	17	11	3.9
31	5.9	-----	9.6	-----	8.3	-----	2.7	.91	-----	10	-----	3.6
TOTAL	150.4	169.3	239.9	268.6	252.8	176.1	245.6	332.98	51.32	163.42	163.9	118.0
MEAN	4.85	6.05	7.74	8.95	8.15	5.87	7.92	10.7	1.71	5.27	5.46	3.81
MAX	7.2	6.6	11	13	31	7.4	71	51	8.3	25	12	7.5
MIN	3.4	5.2	4.8	4.8	3.9	4.4	1.7	.41	.31	.21	3.2	3.1
AC-FT	298	336	476	533	501	349	487	660	102	324	325	234
YEAR 1997	TOTAL	2,332.32	MEAN	6.39	MAX	71	MIN	.21	AC-FT	4,630		

# BIG BLUE RIVER BASIN

**LINCOLN CREEK near Seward, 06880000 - 1997**

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.  
 E indicates estimated daily discharge. Estimated records January 1-February 27, November 15-20, December 4-31.  
 Records 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 543 cubic feet per second August 12, gage height 10.99 feet; minimum daily discharge 14 cubic feet per second September 21.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	26E	38E	38	30	31	42	58	27	18	24	54	43
2	28E	38E	35	30	31	38	62	26	20	22	44	39
3	30E	35E	34	30	31	34	36	32	18	20	46	40
4	31E	34E	33	31	31	32	28	32	17	18	42	39E
5	28E	32E	32	32	30	32	27	31	17	16	40	37E
6	27E	31E	31	32	30	31	26	29	17	16	39	34E
7	28E	30E	31	30	173	30	26	32	17	16	34	33E
8	24E	28E	31	29	286	28	25	28	17	15	31	32E
9	23E	28E	35	29	51	27	24	24	16	16	29	31E
10	20E	29E	36	30	37	27	25	22	16	16	26	31E
11	20E	30E	32	31	34	26	64	144	15	16	25	30E
12	21E	25E	41	31	31	28	169	478	15	17	25	29E
13	21E	24E	44	31	31	28	75	426	20	19	25	28E
14	22E	28E	35	33	30	28	39	353	18	18	25	28E
15	22E	30E	34	35	29	27	29	193	17	18	24E	29E
16	21E	33E	31	35	29	27	25	85	16	18	23E	29E
17	21E	35E	31	34	28	27	24	48	17	17	23E	29E
18	23E	37E	31	34	29	30	24	34	16	20	24E	28E
19	26E	39E	30	35	28	29	24	30	16	22	24E	29E
20	29E	40E	30	35	27	27	24	28	15	19	25E	28E
21	34E	40E	30	35	26	27	28	25	14	18	26	28E
22	34E	43E	30	35	26	26	26	22	15	17	26	26E
23	32E	46E	29	34	26	25	28	21	16	17	26	26E
24	30E	40E	29	32	28	29	30	21	19	17	26	27E
25	30E	34E	29	31	28	29	27	20	23	22	26	27E
26	29E	40E	29	31	31	27	23	22	23	27	26	27E
27	27E	44E	29	30	36	31	29	21	19	29	26	26E
28	24E	41	29	30	43	31	33	22	24	30	26	24E
29	25E	-----	29	30	39	29	29	21	31	37	41	26E
30	26E	-----	29	32	49	28	25	19	25	60	78	26E
31	32E	-----	30	-----	43	-----	28	18	-----	69	-----	27E
TOTAL	814	972	997	957	1,402	880	1,140	2,334	547	706	955	936
MEAN	26.3	34.7	32.2	31.9	45.2	29.3	36.8	75.3	18.2	22.8	31.8	30.2
MAX	34	46	44	35	286	42	169	478	31	69	78	43
MIN	20	24	29	29	26	25	23	18	14	15	23	24
AC-FT	1,610	1,930	1,980	1,900	2,780	1,750	2,260	4,630	1,080	1,400	1,890	1,860
YEAR 1997	TOTAL	12,640	MEAN	34.6	MAX	478	MIN	14	AC-FT	25,070		

## BIG BLUE RIVER BASIN

## BIG BLUE RIVER at Seward, 06880500 - 1997

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.  
E indicates estimated daily discharge. Estimated records January 1-February 27, November 15-19, December 4-8, 22-28.  
Records are good, except estimated records 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 620 cubic feet per second August 12, gage height 6.07 feet; minimum daily discharge 22 cubic feet per second September 16, 19.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	60E	54E	117	74	60	96	105	37	24	38	201	115
2	52E	62E	113	73	69	87	135	33	30	34	145	103
3	52E	76E	108	73	69	81	162	41	30	30	114	87
4	52E	82E	103	75	71	77	111	43	29	27	97	76E
5	54E	84E	101	82	74	75	75	37	26	24	85	56E
6	47E	68E	93	89	71	73	66	34	26	24	79	54E
7	50E	62E	89	88	322	70	60	37	26	24	67	64E
8	50E	62E	91	84	373	67	57	35	25	24	60	66E
9	45E	62E	100	80	87	65	53	31	28	25	54	65
10	38E	64E	131	77	72	63	81	28	31	26	51	65
11	34E	70E	123	77	72	63	76	125	26	25	48	63
12	35E	62E	116	76	60	64	181	551	24	30	45	57
13	38E	56E	119	74	56	62	115	461	28	36	43	54
14	40E	62E	110	80	53	62	68	370	27	35	42	58
15	38E	68E	101	87	53	62	48	227	24	39	39E	60
16	34E	72E	88	118	51	61	41	139	22	41	31E	62
17	32E	80E	91	115	50	60	36	114	25	38	37E	59
18	33E	102E	91	98	50	64	34	92	23	36	39E	60
19	36E	160E	92	85	51	62	31	71	22	39	41E	62
20	37E	290E	88	80	50	59	34	59	23	35	42	61
21	40E	250E	86	79	50	59	39	53	24	32	42	60
22	42E	200E	84	77	49	56	38	47	26	31	42	56E
23	42E	170E	84	77	47	55	41	43	29	33	42	58E
24	41E	125E	84	76	49	71	37	38	36	34	42	58E
25	40E	100E	82	71	56	86	31	35	47	40	41	54E
26	40E	102E	82	66	83	105	25	33	57	64	40	48E
27	38E	120E	81	62	93	89	33	32	49	104	39	54E
28	37E	120	79	59	141	74	42	32	44	137	39	58E
29	39E	-----	78	55	129	69	39	30	52	133	87	57
30	42E	-----	77	59	121	65	36	26	42	168	233	56
31	48E	-----	78	-----	109	-----	39	25	-----	211	-----	54
TOTAL	1,306	2,885	2,960	2,366	2,741	2,102	1,969	2,959	925	1,617	2,007	1,960
MEAN	42.1	103	95.5	78.9	88.4	70.1	63.5	95.5	30.8	52.2	66.9	63.2
MAX	60	290	131	118	373	105	181	551	57	211	233	115
MIN	32	54	77	55	47	55	25	25	22	24	31	48
AC-FT	2,590	5,720	5,870	4,690	5,440	4,170	3,910	5,870	1,830	3,210	3,980	3,890
YEAR 1997	TOTAL	25,797	MEAN	70.7	MAX	551	MIN	22	AC-FT	51,170		

# BIG BLUE RIVER BASIN

**TURKEY CREEK near Wilber, 06881200 - 1997**

LOCATION.--N1/4NE1/4 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.

E indicates estimated daily discharge. Estimated records January 1-31, February 5-March 8, October 26-27, November 9-20, December 5-31. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 33,000 cubic feet per second June 13, 1984, gage height 21.43 feet.  
No flow September 20, 21, 24, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,400 cubic feet per second June 27, gage height 11.78 feet; minimum daily discharge 7.5 cubic feet per second September 20-21.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	13 E	12	36E	20	68	71	105	60	13	12	137	1,010
2	14 E	13	38E	20	48	49	85	44	9.2	12	432	1,140
3	17 E	16	38E	20	36	38	60	123	9.0	11	464	683
4	19 E	17	37E	20	34	31	49	71	9.5	9.7	334	274
5	16 E	16E	38E	21	30	28	43	47	10	9.3	173	135E
6	15 E	15E	37E	22	27	25	39	30	10	9.1	82	78E
7	16 E	14E	36E	20	27	23	36	22	10	9.2	46	50E
8	15 E	12E	34E	19	23	22	37	17	8.9	9.2	30	38E
9	14 E	13E	32	19	22	21	36	14	9.5	9.4	19E	33E
10	13 E	13E	109	19	21	20	211	14	9.6	9.3	14E	31E
11	11 E	13E	448	20	20	21	979	17	9.4	10	14E	30E
12	11 E	12E	207	22	20	24	246	23	8.1	11	12E	25E
13	12 E	11E	91	23	20	75	83	26	13	12	13E	27E
14	14 E	10E	60	27	20	79	55	30	13	14	14E	29E
15	13 E	11E	44	37	19	41	44	39	11	15	14E	31E
16	12 E	13E	35	42	19	32	38	28	10	19	12E	32E
17	11 E	24E	31	41	19	27	33	21	9.1	22	15E	31E
18	12 E	70E	31	35	18	24	27	18	8.5	17	19E	32E
19	14 E	98E	29	32	17	22	24	19	8.0	14	21E	34E
20	15 E	102E	26	30	16	21	22	19	7.5	13	24E	34E
21	15 E	98E	26	28	16	24	19	95	7.5	13	26	31E
22	15 E	90E	25	27	16	27	18	124	7.9	13	24	34E
23	15 E	68E	24	26	34	87	19	59	10	12	24	34E
24	14 E	52E	23	25	86	151	20	59	16	13	23	33E
25	13 E	42E	22	24	24	294	19	50	14	13	23	31E
26	12 E	38E	22	23	238	1,030	17	37	15	12 E	22	30E
27	10 E	38E	21	22	134	1,340	15	28	28	11 E	22	25E
28	9.2E	36E	21	21	322	804	40	23	23	12	22	27E
29	9.0E	-----	21	21	256	313	27	19	17	15	172	29E
30	10 E	-----	21	42	185	144	99	16	13	58	670	30E
31	11 E	-----	20	-----	110	-----	104	14	-----	103	-----	30E
TOTAL	410.2	967	1,683	768	1,945	4,908	2,649	1,206	347.7	522.2	2,917	4,111
MEAN	13.2	34.5	54.3	25.6	62.7	164	85.5	38.9	11.6	16.8	97.2	133
MAX	19	102	448	42	322	1,340	979	124	28	103	670	1,140
MIN	9.0	10	20	19	16	20	15	14	7.5	9.1	12	25
AC-FT	814	1,920	3,340	1,520	3,860	9,740	5,250	2,390	690	1,040	5,790	8,150
YEAR 1997	TOTAL	22,434.1	MEAN	61.5	MAX	1,340	MIN	7.5	AC-FT	44,500		



## BIG BLUE RIVER BASIN

## BIG BLUE RIVER at Beatrice, 06881500 - 1997

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.

E indicates estimated daily discharge. Estimated records January 1-February 17, November 15-16, December 7-14, 25-29. Records good, except estimated records 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 13,600 cubic feet per second July 11, gage height 20.19 feet; minimum daily discharge 165 cubic feet per second estimated January 28.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	360E	300E	739	305	1,310	767	869	882	248	352	1,100	2,950
2	390E	320E	646	295	860	684	857	603	241	320	956	2,670
3	400E	340E	547	304	631	550	911	461	222	287	1,320	2,530
4	400E	360E	503	320	506	452	722	1,020	213	259	1,380	1,960
5	380E	360E	470	312	435	409	589	1,560	224	236	1,220	1,410
6	360E	350E	461	316	398	369	527	859	213	223	977	989
7	350E	340E	437	303	378	355	453	537	209	212	775	720E
8	360E	330E	411	299	385	339	403	366	197	202	622	600E
9	370E	340E	463	306	469	329	375	292	201	202	524	520E
10	320E	350E	485	316	700	321	6,370	257	206	205	448	490E
11	280E	300E	617	324	475	421	8,450	245	200	187	404	430E
12	230E	320E	1,050	321	374	1,390	5,160	255	194	222	369	400E
13	210E	340E	705	315	346	983	5,510	304	200	241	347	380E
14	215E	340E	534	358	326	572	2,580	1,040	209	219	334	370E
15	235E	350E	467	648	310	680	1,110	1,260	204	234	310E	365
16	225E	400E	423	647	298	670	796	1,020	205	255	290E	366
17	200E	460E	390	566	281	501	618	774	207	256	280	393
18	200E	677	369	509	270	445	529	573	191	259	285	414
19	205E	760	353	469	272	410	476	714	186	249	293	435
20	215E	879	341	416	271	357	438	526	193	236	297	420
21	220E	1,050	346	391	266	391	405	450	193	236	298	403
22	240E	1,070	345	371	259	488	386	606	204	243	301	405
23	235E	953	331	362	259	372	368	996	256	239	296	398
24	215E	877	323	350	346	1,570	380	812	368	233	294	392
25	200E	773	335	343	720	8,330	307	678	326	308	283	390E
26	190E	674	330	340	698	6,390	290	558	272	586	281	370E
27	180E	628	318	321	2,050	4,670	339	431	263	474	264	350E
28	165E	581	316	308	1,490	3,010	538	364	341	432	262	350E
29	175E	-----	320	298	1,180	1,840	1,270	330	375	595	1,160	350E
30	195E	-----	316	723	903	1,240	1,210	295	353	892	2,990	345
31	225E	-----	319	-----	868	-----	944	266	-----	1,230	-----	336
TOTAL	8,145	14,822	14,010	11,456	18,334	39,305	44,180	19,334	7,114	10,324	18,960	22,901
MEAN	263	529	452	382	591	1,310	1,425	624	237	333	632	739
MAX	400	1,070	1,050	723	2,050	8,330	8,450	1,560	375	1,230	2,990	2,950
MIN	165	300	316	295	259	321	290	245	186	187	262	336
AC-FT	16,160	29,400	27,790	22,720	36,370	77,960	87,630	38,350	14,110	20,480	37,610	45,420
YEAR 1997	TOTAL	228,885	MEAN	627	MAX	8,450	MIN	165	AC-FT	454,000		

# LITTLE BLUE RIVER BASIN

**BIG SANDY CREEK at Alexandria, 06883940 - 1997**

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.  
E indicates estimated daily discharge. Estimated records January 10-20, 25-29, June 23-30, October 25-29, December 3-12, December 18-28. Records good, except estimated records are poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 7,510 cubic feet per second June 25, gage height 13.50 feet; minimum daily discharge 13 cubic feet per second September 8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1997

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	29	35	41	30	25	28	86	63	22	20	528	381
2	27	36	39	30	25	28	63	102	18	19	416	226
3	29	37	39	31	25	27	53	53	18	19	254	155E
4	28	38	39	31	25	27	50	40	18	19	159	125E
5	28	38	37	30	24	27	45	39	19	21	130	88E
6	29	39	37	32	25	26	44	39	18	21	121	74E
7	29	39	36	32	24	26	41	45	15	21	109	68E
8	30	40	35	32	25	26	51	51	13	21	83	62E
9	31	41	33	33	25	25	43	52	46	21	63	56E
10	31E	42	34	34	24	24	41	50	38	21	52	47E
11	30E	43	36	33	24	24	42	51	26	18	47	37E
12	29E	42	36	33	24	23	44	63	20	19	40	32E
13	31E	44	35	35	24	22	43	46	18	18	35	31
14	31E	43	36	36	22	20	39	40	19	19	32	29
15	30E	46	35	35	22	20	42	32	18	19	29	25
16	28E	46	34	35	22	19	49	26	19	18	25	25
17	27E	45	33	36	21	20	40	23	21	19	25	24
18	28E	45	33	36	21	19	30	18	22	18	23	24E
19	28E	48	32	35	21	19	31	50	22	17	23	26E
20	29E	49	31	33	21	18	41	228	24	19	22	25E
21	28	47	30	32	21	18	39	143	25	19	19	24E
22	29	47	29	29	21	18	41	136	26	18	18	26E
23	31	47	29	28	22	3,500E	41	92	29	18	17	26E
24	31	46	27	28	22	5,400E	44	69	67	19	17	25E
25	31E	43	27	27	25	6,400E	49	53	47	22E	16	23E
26	31E	42	28	27	23	4,800E	46	46	34	28E	15	21E
27	32E	42	28	26	24	680E	54	41	31	34E	14	20E
28	32E	42	29	26	25	240E	755	34	26	44E	15	21E
29	33E	-----	29	25	27	170E	429	29	22	70E	65	21
30	34	-----	29	25	26	100E	136	25	20	328	369	21
31	34	-----	30	-----	26	-----	90	24	-----	667	-----	20
TOTAL	928	1,192	1,026	935	731	21,794	2,642	1,803	761	1,654	2,781	1,808
MEAN	29.9	42.6	33.1	31.2	23.6	726	85.2	58.2	25.4	53.4	92.7	58.3
MAX	34	49	41	36	27	6,400	755	228	67	667	528	381
MIN	27	35	27	25	21	18	30	18	13	17	14	20
AC-FT	1,840	2,360	2,040	1,850	1,450	43,230	5,240	3,580	1,510	3,280	5,520	3,590
YEAR 1997	TOTAL	38,055	MEAN	104	MAX	6,400	MIN	13	AC-FT	75,480		

**REPUBLICAN RIVER BASIN**

**1997**

**WATER YEAR RECORDS FOR  
REPUBLICAN RIVER COMPACT**

# REPUBLICAN RIVER BASIN

**SWANSON LAKE near Trenton, 06829000 - 1997**

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.--Published by U. S. Geological Survey up to October 1, 1994.

E indicates estimated daily storage contents. Estimated storage May 18-June 5, June 18-24. Records are good, except estimated records are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 148,900 acre-feet August 2 & 3, 1962, elevation 2,757.42 feet.  
Minimum since start of operation 19,950 acre-feet October 24, 1954, elevation 2,722.61 feet.

EXTREMES FOR CURRENT YEAR.--Maximum contents 123,900 acre-feet June 17, elevation 2,757.42 feet.  
Minimum 71,580 acre-feet September 30, elevation 2,742.71 feet.

STORAGE CAPACITY TABLE.--elevation in feet, storage in acre-feet

2,730	31,690	2,745	80,700	2,755	127,700
2,735	45,210	2,750	102,600	2,760	156,100
2,740	61,590				

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1996 TO SEP 1997

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88,620	91,450	95,580	99,300	103,900	111,100	116,500	120,900	122,100E	117,000	90,960	74,710
2	88,700	91,490	95,890	99,480	104,200	111,200	116,700	121,000	122,200E	116,100	90,440	74,120
3	88,790	91,620	95,940	99,660	104,600	111,500	116,900	121,000	122,400E	115,300	89,920	73,530
4	88,880	91,800	96,070	99,940	104,900	111,600	117,000	121,000	122,500E	114,500	89,270	73,180
5	89,050	91,880	96,120	100,100	105,100	111,900	117,500	121,100	122,600E	113,700	89,050	72,940
6	89,140	92,020	96,300	100,300	105,500	112,000	117,500	121,200	122,600	112,700	88,700	72,860
7	89,350	92,150	96,520	100,500	105,800	112,200	117,500	121,300	122,800	112,000	88,190	72,790
8	89,530	92,190	96,570	100,700	106,000	112,400	117,500	121,300	122,900	111,300	87,670	72,710
9	89,570	92,330	96,840	100,900	106,200	112,600	117,500	121,400	123,000	110,500	87,120	72,710
10	89,610	92,370	97,060	101,000	106,400	112,800	117,700	121,400	123,100	109,600	86,640	72,630
11	89,740	92,460	97,240	101,100	106,600	113,000	117,900	121,400	123,300	108,800	86,350	72,550
12	89,830	92,590	97,430	101,200	106,900	113,200	118,100	121,400	123,400	108,000	85,880	72,510
13	89,960	92,680	97,650	101,300	107,100	113,400	118,200	121,400	123,500	107,200	85,290	72,480
14	90,090	92,860	98,020	101,400	107,400	113,500	118,400	121,400	123,600	106,100	84,730	72,360
15	90,140	93,030	98,020	101,500	107,600	113,700	118,600	121,400	123,700	105,000	84,100	72,360
16	90,310	93,340	98,110	101,500	107,900	113,900	118,800	121,400	123,800	104,100	83,330	72,320
17	90,400	93,340	98,250	101,600	108,200	114,100	119,100	121,400	123,900	103,000	82,790	72,280
18	90,350	93,520	98,250	101,700	108,400	114,300	119,200	121,400	123,800E	102,000	82,120	72,160
19	90,350	93,700	98,250	101,700	108,700	114,500	119,400	121,500	123,300E	101,000	81,520	71,970
20	90,480	93,880	98,250	101,900	108,900	114,700	119,500	121,500E	122,600E	99,990	80,960	71,970
21	90,480	94,060	98,250	102,000	109,200	114,800	119,700	121,500E	122,000E	99,210	80,580	71,890
22	90,530	94,190	98,340	102,200	109,400	115,000	119,800	121,500E	121,400E	98,250	80,240	71,930
23	90,530	94,370	98,430	102,300	109,700	115,100	119,800	121,400E	120,800E	97,340	79,860	71,890
24	90,610	94,460	98,520	102,500	110,000	115,300	119,900	121,400E	120,300E	96,390	79,440	71,890
25	90,740	94,500	98,610	102,700	110,200	115,300	120,100	121,400E	119,900	95,530	78,910	71,890
26	91,010	94,630	98,700	102,900	110,400	115,400	120,200	121,400E	119,400	94,680	78,300	71,820
27	90,961	94,810	98,700	103,100	110,500	115,500	120,300	121,500E	119,200	93,880	77,660	71,700
28	91,010	94,990	98,840	103,200	110,900	115,600	120,400	121,600E	118,700	93,340	76,930	71,700
29	91,360	95,220	98,880	103,300	-----	115,800	120,500	121,700E	118,200	92,770	76,370	71,660
30	91,320	95,440	98,980	103,500	-----	116,000	120,600	121,900E	117,600	92,110	75,860	71,580
31	91,320	-----	99,110	103,700	-----	116,300	-----	122,000E	-----	91,360	75,300	-----
MAX	91,360	95,440	99,110	103,700	110,900	116,300	120,600	122,000	123,900	117,000	90,960	74,710
MIN	88,620	91,450	95,580	99,300	103,900	111,100	116,500	120,900	117,600	91,360	75,300	71,580
CHANGE	2,920	4,120	3,670	4,590	7,200	5,400	4,300	1,400	-4,400	-26,240	-16,060	-3,720
CAL YEAR 1996			MEAN	93,943	MAX	112,500	MIN	81,180				
WTR YEAR 1997			MEAN	102,102	MAX	123,900	MIN	71,580				

# REPUBLICAN RIVER BASIN

## FRENCHMAN CREEK near Imperial, 06831500 - 1997

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

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

GAGE.--Continuous stage recorder. Gage datum is approximately 3130 feet above National Geodetic Vertical Datum of 1929, from topographic map.

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

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

E indicates estimated daily discharge. Estimated daily discharges January 11-13, August 23-September 2. Records good, except estimated records 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 4.8 cubic feet per second March 12, 1977 during backwater from ice.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,290 cubic feet per second June 17, gage height 5.88 feet; minimum daily discharge 12 cubic feet per second September 16-17.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1996 TO SEP 1997

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	23	25	27	26	28	26	27	24	22	19	15E
2	57	23	24	27	26	27	28	28	30	21	18	14E
3	53	24	24	27	27	28	30	27	36	20	17	14
4	43	24	24	27	27	27	30	27	34	20	17	14
5	33	24	24	26	27	27	31	26	30	19	18	15
6	27	24	25	25	27	27	30	26	28	19	22	15
7	27	24	25	26	27	27	29	25	26	19	20	14
8	26	24	25	27	26	27	29	25	25	19	18	14
9	24	24	25	26	26	27	28	24	36	21	17	14
10	23	24	25	23	27	27	29	24	31	20	17	14
11	23	24	25	22E	27	26	28	23	29	19	18	13
12	23	24	26	22E	26	27	30	22	27	21	18	13
13	22	24	26	22E	27	26	31	23	26	20	17	13
14	22	24	25	22	27	26	30	22	26	19	17	13
15	22	25	23	23	27	27	30	22	26	19	16	13
16	22	26	25	24	27	28	29	22	49	18	15	12
17	23	20	18	24	27	27	28	21	596	18	15	12
18	22	30	20	25	28	27	28	21	190	17	15	13
19	22	27	21	27	29	25	28	20	117	16	15	13
20	22	26	25	27	28	25	28	21	79	16	15	14
21	22	26	27	26	28	25	28	20	57	16	14	14
22	22	25	27	27	27	25	27	21	38	16	14	15
23	22	26	23	27	27	25	27	25	30	16	14E	16
24	23	20	23	27	28	25	27	26	28	15	13E	16
25	22	27	24	24	28	25	27	25	25	15	13E	16
26	22	26	22	23	28	25	27	27	29	15	14E	16
27	22	26	24	27	27	25	27	27	28	15	14E	15
28	22	25	26	27	28	26	27	26	26	15	15E	15
29	23	25	26	27	-----	25	28	26	25	20	15E	15
30	23	25	26	26	-----	27	27	26	23	21	15E	15
31	22	-----	27	26	-----	26	-----	25	-----	20	15E	-----
TOTAL	848	739	755	786	760	815	852	750	1,774	567	500	425
MEAN	27.4	24.6	24.4	25.4	27.1	26.3	28.4	24.2	59.1	18.3	16.1	14.2
MAX	67	30	27	27	29	28	31	28	596	22	22	16
MIN	22	20	18	22	26	25	26	20	23	15	13	12
AC-FT	1,680	1,470	1,500	1,560	1,510	1,620	1,690	1,490	3,520	1,120	992	843
CAL YEAR 1996	TOTAL	9,611	MEAN	26.3	MAX	119	MIN	18	AC-FT	19,060		
WTR YEAR 1997	TOTAL	9,571	MEAN	26.2	MAX	596	MIN	12	AC-FT	18,980		

# REPUBLICAN RIVER BASIN

## STINKING WATER CREEK near Palisade, 06835000 - 1997

LOCATION.--SW1/4NW1/4 Sec. 30-5-33 W., Hayes County, Lat. 40°22'10", Long. 101°06'50", on right bank 25 feet downstream from 96 inch corrugated metal pipe, 1.25 miles upstream from mouth, and 1.75 miles northwest of Palisade.

DRAINAGE AREA.--Approximately 1,500 square miles; approximately 380 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,750.99 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1949 - present

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

E indicates estimated daily discharge. Estimated records December 16-28, January 3-16, 18-20, 25-30, February 9-14, April 10-11, July 2-3. Records good, except estimated records 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 899 cubic feet per second August 1, gage height 9.85 feet; minimum daily discharge 11 cubic feet per second July 25.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1996 TO SEP 1997

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	26	25	30	28	32	27	27	26	19	321	18
2	26	25	25	27	28	31	28	27	35	18E	375	17
3	26	24	27	24E	29	31	28	26	50	17E	115	17
4	26	24	25	23E	29	32	30	27	67	16	46	17
5	26	24	28	23E	28	32	31	27	79	16	37	17
6	26	24	25	24E	29	31	29	26	50	16	36	17
7	26	23	26	25E	29	31	31	26	42	15	38	17
8	26	23	26	24E	29	31	28	26	33	15	36	17
9	26	22	25	23E	26E	31	28	25	27	15	31	17
10	27	22	26	22E	25E	32	26E	24	25	16	28	17
11	26	22	25	22E	26E	31	26E	24	26	16	27	17
12	25	22	25	21E	25E	32	28	23	24	16	26	16
13	25	22	25	21E	24E	32	29	23	23	16	26	16
14	24	22	25	20E	27E	31	33	22	22	15	25	17
15	24	23	25	21E	29	31	35	22	21	14	23	16
16	24	25	24E	22E	31	30	35	22	20	14	23	16
17	24	24	23E	24	33	30	33	21	20	13	23	16
18	26	24	22E	25E	34	31	32	21	18	12	22	16
19	28	23	21E	27E	33	32	31	20	17	12	22	16
20	27	24	21E	30E	33	31	29	20	16	12	21	16
21	27	25	22E	32	32	31	29	20	17	12	21	16
22	28	25	21E	32	33	30	29	20	16	12	22	17
23	27	25	20E	30	32	30	29	20	15	12	27	17
24	27	25	20E	29	32	30	28	20	14	12	22	18
25	27	24	20E	23E	31	30	28	22	25	11	21	18
26	28	22	21E	22E	30	29	27	23	41	12	20	18
27	27	22	23E	23E	31	28	27	24	36	13	19	18
28	27	23	25E	26E	31	28	27	26	28	13	18	17
29	26	23	28	29E	-----	28	27	28	23	14	18	17
30	27	24	28	32E	-----	27	27	28	21	54	18	17
31	26	-----	28	33	-----	27	-----	27	-----	63	18	-----
TOTAL	813	706	750	789	827	943	875	737	877	531	1,525	506
MEAN	26.2	23.5	24.2	25.5	29.5	30.4	29.2	23.8	29.2	17.1	49.2	16.9
MAX	28	26	28	33	34	32	35	28	79	63	375	18
MIN	24	22	20	20	24	27	26	20	14	11	18	16
AC-FT	1,610	1,400	1,490	1,560	1,640	1,870	1,740	1,460	1,740	1,050	3,020	1,000
CAL YEAR 1996	TOTAL	9,993	MEAN	27.3	MAX	135	MIN	18	AC-FT	19,820		
WTR YEAR 1997	TOTAL	9,879	MEAN	27.1	MAX	375	MIN	11	AC-FT	19,590		

# REPUBLICAN RIVER BASIN

## RED WILLOW CREEK above Hugh Butler Lake, 06837300 - 1997

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.

E indicates estimated daily discharge. Estimated daily discharge November 17-18, 25-26, December 18-January 31, February 7-15, 26-28. Records good except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 4,020 cubic feet per second June 16, 1972, gage height 13.27 feet (at different datum); minimum daily discharge 3.1 cubic feet per second July 12, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharge 83 cubic feet per second September 14, gage height 4.31 feet; minimum daily discharge 8.2 cubic feet per second July 25.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1996 TO SEP 1997

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	22	26	23E	25	30	27	24	28	13	39	14
2	21	23	27	24E	27	31	27	24	27	12	38	13
3	20	23	26	23E	28	31	30	24	31	11	26	12
4	20	24	25	23E	27	31	32	23	33	11	20	12
5	20	23	25	22E	27	32	35	23	34	11	19	13
6	19	22	24	23E	26	32	35	23	34	11	19	14
7	20	23	22	23E	25E	30	32	23	32	11	18	13
8	20	23	23	23E	24E	30	30	23	26	11	17	14
9	19	23	22	22E	23E	31	29	22	23	11	17	14
10	19	23	22	21E	22E	31	29	21	22	20	16	13
11	19	24	23	20E	22E	32	29	21	21	14	17	12
12	19	23	24	20E	22E	33	28	21	20	13	17	12
13	19	23	24	20E	23E	33	28	21	20	12	16	12
14	19	24	25	21E	24E	32	30	20	18	12	16	15
15	19	25	26	22E	25E	31	34	20	18	12	16	14
16	19	25	26	22E	26	30	36	20	18	13	18	13
17	19	24E	26	23E	29	29	37	20	17	12	25	14
18	19	25E	24E	23E	31	30	33	20	17	11	31	15
19	19	26	22E	24E	32	31	30	20	17	11	26	16
20	19	27	23E	24E	34	32	28	21	17	10	21	14
21	19	29	23E	24E	34	32	27	20	18	10	18	14
22	19	30	22E	23E	33	32	26	20	18	9.7	16	14
23	19	30	21E	23E	33	30	25	22	16	9.1	15	14
24	18	27	20E	22E	32	30	25	23	15	9.0	14	14
25	18	24E	20E	21E	31	29	24	23	16	8.2	13	15
26	18	24E	20E	21E	29E	28	24	24	16	8.7	12	15
27	18	25	20E	22E	28E	28	24	28	23	9.1	12	15
28	18	26	21E	23E	29E	28	24	30	23	9.7	11	15
29	18	24	21E	24E	-----	28	24	32	17	11	16	14
30	20	25	22E	25E	-----	27	24	33	15	11	39	13
31	22	-----	22E	26E	-----	27	-----	32	-----	16	16	-----
TOTAL	597	739	717	700	771	941	866	721	650	353.5	614	412
MEAN	19.3	24.6	23.1	22.6	27.5	30.4	28.9	23.3	21.7	11.4	19.8	13.7
MAX	22	30	27	26	34	33	37	33	34	20	39	16
MIN	18	22	20	20	22	27	24	20	15	8.2	11	12
AC-FT	1,180	1,470	1,420	1,390	1,530	1,870	1,720	1,430	1,290	701	1,220	817
CAL YEAR 1996 TOTAL		9,778.0	MEAN	26.7	MAX	249	MIN	13	AC-FT	19,390		
WTR YEAR 1997 TOTAL		8,081.5	MEAN	22.1	MAX	39	MIN	8.2	AC-FT	16,030		

# REPUBLICAN RIVER BASIN

**HUGH BUTLER LAKE near McCook, 06837390 - 1997**

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 1951 - present

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

COOPERATION.--Reservoir capacity table furnished by U. S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 41,680 acre-feet July 15 & 16, 1967, elevation 2,584.14 feet.  
Minimum since start of operation 16,930 acre-feet September 8, 1978 elevation 2565.31 feet.

EXTREMES FOR CURRENT YEAR.--Maximum contents 39,310 acre-feet June 15, elevation 2,582.73 feet.  
Minimum contents 29,720 acre-feet September 11, elevation 2,580.44 feet.

STORAGE CAPACITY TABLE.--elevation in feet, storage in acre-feet

2,565	16,630	2,575	27,800
2,570	21,800	2,580	34,910

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1996 TO SEP 1997

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34,710	34,800	35,390	35,940	36,510	37,500	38,150	38,840	39,020	37,900	32,960	30,070
2	34,650	34,800	35,420	35,980	36,530	37,530	38,200	38,810	39,140	37,690	32,940	29,940
3	34,580	34,810	35,440	35,980	36,660	37,560	38,200	38,790	39,220	37,470	32,910	29,830
4	34,580	34,860	35,490	36,040	36,680	37,560	38,250	38,880	39,190	37,290	32,770	29,740
5	34,660	34,910	35,490	36,040	36,680	37,600	38,250	38,930	39,210	37,130	32,610	29,730
6	34,680	34,890	35,500	36,040	36,720	37,610	38,250	38,930	39,260	36,950	32,510	29,790
7	34,680	34,890	35,540	36,060	36,760	37,640	38,300	38,960	39,270	36,820	32,420	29,790
8	34,690	34,890	35,540	36,100	36,790	37,680	38,300	38,940	39,270	36,680	32,320	29,770
9	34,720	34,910	35,570	36,120	36,820	37,710	38,330	38,890	39,260	36,530	32,210	29,740
10	34,680	34,910	35,600	36,120	36,840	37,740	38,360	38,910	39,240	36,400	32,100	29,730
11	34,710	34,910	35,630	36,100	36,870	37,740	38,400	38,910	39,270	36,240	32,100	29,720
12	34,740	34,910	35,650	36,120	36,920	37,820	38,410	38,860	39,290	36,120	32,070	29,730
13	34,750	34,910	35,660	36,120	36,930	37,840	38,430	38,860	39,290	35,930	32,020	29,730
14	34,800	34,920	35,690	36,180	36,970	37,820	38,460	38,860	39,260	35,710	31,980	29,920
15	34,780	34,980	35,690	36,200	37,020	37,840	38,500	38,860	39,310	35,520	31,960	29,940
16	34,800	35,060	35,730	36,200	37,030	37,900	38,510	38,880	39,240	35,300	31,860	29,950
17	34,720	35,060	35,730	36,210	37,080	37,940	38,580	38,930	39,170	35,130	31,790	29,920
18	34,680	35,080	35,710	36,260	37,100	37,940	38,630	38,930	39,120	34,950	31,650	29,940
19	34,680	35,130	35,710	36,260	37,130	37,980	38,680	38,840	39,010	34,780	31,560	29,880
20	34,740	35,190	35,730	36,280	37,160	38,020	38,710	38,780	38,980	34,600	31,440	29,860
21	34,680	35,190	35,770	36,290	37,210	38,030	38,710	38,760	38,930	34,430	31,270	29,830
22	34,740	35,200	35,770	36,310	37,240	38,030	38,690	38,760	38,790	34,280	31,190	29,860
23	34,740	35,250	35,800	36,340	37,270	38,030	38,680	38,780	38,660	34,140	31,090	29,860
24	34,750	35,220	35,800	36,340	37,350	38,070	38,660	38,780	38,480	33,990	31,010	29,860
25	34,780	35,220	35,800	36,360	37,370	38,050	38,660	38,810	38,430	33,820	30,910	29,870
26	34,810	35,280	35,800	36,360	37,420	38,070	38,660	38,810	38,330	33,650	30,740	29,910
27	34,770	35,300	35,840	36,370	37,440	38,080	38,680	38,830	38,250	33,500	30,580	29,950
28	34,750	35,350	35,870	36,400	37,500	38,120	38,740	38,840	38,230	33,310	30,420	29,940
29	34,810	35,380	35,870	36,420	-----	38,100	38,790	38,880	38,150	33,170	30,350	29,920
30	34,780	35,390	35,880	36,430	-----	38,100	38,760	38,910	38,050	33,050	30,280	29,920
31	34,800	-----	35,910	36,500	-----	38,120	-----	38,990	-----	32,980	30,160	-----
MAX	34,810	35,390	35,910	36,500	37,500	38,120	38,790	38,990	39,310	37,900	32,960	30,070
MIN	34,580	34,800	35,390	35,940	36,510	37,500	38,150	38,760	38,050	32,980	30,160	29,720
CHANGE	140	590	520	590	1,000	620	640	230	-940	-5,070	-2,820	-240
CAL YEAR 1996			MEAN	34,081	MAX	37,370	MIN	31,520				
WTR YEAR 1997			MEAN	35,802	MAX	39,310	MIN	29,720				



# REPUBLICAN RIVER BASIN

## MEDICINE CREEK above Harry Strunk Lake, 06841000 - 1997

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.

E indicates estimated daily discharge. Estimated records December 18-February 2, August 10-September 2. Records good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 11,600 cubic feet per second June 21, 1967, gage height 20.05 feet; minimum daily discharge 9.1 cubic feet per second August 9, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,290 cubic feet per second June 26, gage height 14.00 feet; minimum daily discharge 32 cubic feet per second July 26, 27.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1996 TO SEP 1997

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	51	53	52E	60E	61	58	56	55	65	43	40E
2	50	51	53	50E	64E	61	59	57	54	56	43	40E
3	49	51	53	47E	68	61	61	56	56	51	41	39
4	49	52	53	44E	67	61	67	56	62	49	40	39
5	49	52	54	41E	64	60	68	55	64	48	37	39
6	50	52	52	38E	64	60	66	55	59	48	39	39
7	49	52	51	38E	63	60	61	55	54	48	40	38
8	50	52	53	40E	62	60	58	54	51	46	44	38
9	50	52	53	42E	62	61	58	52	50	44	42	37
10	50	52	54	42E	62	63	58	51	47	43	41E	38
11	50	52	54	39E	61	64	58	51	52	42	43E	38
12	50	52	55	36E	60	65	58	50	68	42	52E	37
13	50	52	55	36E	60	65	60	50	62	42	60E	37
14	50	52	55	38E	60	62	64	50	55	41	54E	37
15	50	54	55	40E	60	62	67	50	55	42	47E	39
16	50	55	55	42E	61	60	65	50	51	43	45E	45
17	49	58	54	44E	62	61	63	50	51	40	43E	44
18	50	54	50E	46E	66	62	60	49	49	38	42E	40
19	52	54	49E	48E	66	63	59	49	47	36	41E	38
20	53	55	48E	50E	68	63	58	49	45	36	40E	37
21	51	55	50E	50E	67	64	58	48	50	36	40E	37
22	51	55	52E	47E	65	64	57	48	55	36	41E	40
23	51	53	50E	44E	63	63	57	50	50	35	42E	43
24	51	53	48E	41E	62	62	56	52	47	34	41E	45
25	52	54	47E	38E	61	61	55	56	48	33	40E	45
26	51	52	45E	38E	61	60	55	58	797	32	39E	44
27	51	51	43E	41E	60	59	55	63	382	32	38E	43
28	51	50	45E	44E	61	59	55	65	232	33	38E	41
29	51	50	46E	47E	-----	59	56	62	127	34	38E	40
30	50	51	48E	50E	-----	59	55	61	84	38	38E	39
31	51	-----	50E	54E	-----	59	-----	58	-----	40	39E	-----
TOTAL	1,562	1,579	1,583	1,347	1,760	1,904	1,785	1,666	2,959	1,283	1,311	1,196
MEAN	50.4	52.6	51.1	43.5	62.9	61.4	59.5	53.7	98.6	41.4	42.3	39.9
MAX	53	58	55	54	68	65	68	65	797	65	60	45
MIN	49	50	43	36	60	59	55	48	45	32	37	37
AC-FT	3,100	3,130	3,140	2,670	3,490	3,780	3,540	3,300	5,870	2,540	2,600	2,370
CAL YEAR 1996	TOTAL	20,730	MEAN	56.6	MAX	323	MIN	31	AC-FT	41,120		
WTR YEAR 1997	TOTAL	19,935	MEAN	54.6	MAX	797	MIN	32	AC-FT	39,540		

# REPUBLICAN RIVER BASIN

**HARRY STRUNK LAKE near Cambridge, 06842000 - 1997**

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.--Published by U. S. Geological Survey up to October 1, 1994.  
Records are good.

COOPERATION.--Reservoir capacity table furnished by U. S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 55,750 acre-feet March 23, 1960 elevation 2,374.10 feet.  
Minimum since start of operation 7,840 acre-feet September 7, 1978 elevation 2,340.39 feet.

EXTREMES FOR CURRENT YEAR.--Maximum contents 41,040 acre-feet June 28, elevation 2,368.84 feet.  
Minimum contents 17,390 acre-feet September 4, elevation 2,352.95 feet.

STORAGE CAPACITY TABLE.--elevation in feet, storage in acre-feet

2,345	10,320	2,360	25,910
2,350	14,500	2,365	33,730
2,355	19,630	2,370	43,470

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1996 TO SEP 1997

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35,800	35,100	35,320	34,810	34,380	34,850	35,910	38,240	39,880	40,420	25,560	17,950
2	35,410	35,100	35,320	34,810	34,380	34,850	35,960	38,320	39,920	39,980	25,340	17,740
3	35,180	35,120	35,280	34,850	34,510	34,870	36,000	38,400	39,940	39,380	25,060	17,560
4	35,050	35,180	35,280	34,870	34,530	34,850	36,090	38,610	39,820	38,920	24,790	17,390
5	35,030	35,210	35,270	34,870	34,530	34,850	36,130	38,690	39,820	38,450	24,300	17,480
6	34,960	35,100	35,270	34,870	34,560	34,850	36,150	38,810	39,820	37,990	23,920	17,580
7	34,830	35,100	35,270	34,830	34,580	34,890	36,190	38,880	39,740	37,640	23,670	17,640
8	34,830	35,070	35,230	34,810	34,600	34,900	36,190	38,880	39,660	37,240	23,520	17,720
9	34,830	35,080	35,250	34,810	34,600	34,890	36,220	38,920	39,540	36,840	23,360	17,750
10	34,810	35,050	35,230	34,760	34,600	34,900	36,320	39,060	39,440	36,470	23,130	17,800
11	34,890	34,990	35,250	34,690	34,630	34,900	36,410	39,040	39,560	36,060	23,120	17,860
12	34,980	34,980	35,250	34,630	34,630	34,990	36,430	39,080	39,540	35,710	23,180	17,900
13	35,010	34,980	35,230	34,620	34,630	35,010	36,430	39,160	39,500	35,190	23,240	17,980
14	35,070	34,980	35,230	34,600	34,630	35,050	36,520	39,180	39,460	34,510	23,330	18,070
15	35,030	35,070	35,160	34,580	34,650	35,100	36,640	39,280	39,520	33,820	23,520	18,150
16	35,080	35,160	35,190	34,540	34,650	35,190	36,790	39,400	39,440	33,170	23,570	18,210
17	34,940	35,140	35,160	34,530	34,670	35,270	36,920	39,500	39,400	32,550	23,560	18,260
18	34,960	35,180	35,190	34,510	34,670	35,280	37,090	39,500	39,360	31,990	23,350	18,390
19	34,980	35,210	34,940	34,490	34,670	35,380	37,200	39,380	39,300	31,440	23,110	18,360
20	35,050	35,270	34,920	34,470	34,720	35,470	37,280	39,420	39,220	30,950	22,800	18,350
21	34,980	35,210	34,920	34,470	34,740	35,480	37,370	39,460	39,060	30,450	22,460	18,400
22	34,990	35,270	34,920	34,470	34,760	35,520	37,430	39,400	38,960	29,910	22,130	18,570
23	35,050	35,320	35,010	34,490	34,760	35,560	37,470	39,540	38,830	29,440	21,870	18,630
24	35,100	35,250	34,980	34,470	34,800	35,610	37,550	39,660	38,790	28,980	21,550	18,720
25	35,160	35,230	34,940	34,460	34,830	35,610	37,640	39,660	38,630	28,590	21,020	18,870
26	35,180	35,230	34,900	34,440	34,830	35,690	37,760	39,740	39,980	28,140	20,310	18,980
27	35,080	35,280	34,890	34,400	34,830	35,720	37,870	39,760	40,850	27,520	19,700	19,090
28	35,160	35,270	34,870	34,380	34,870	35,740	37,990	39,760	41,040	27,030	19,180	19,110
29	35,190	35,340	34,830	34,360	-----	35,780	38,120	39,740	40,930	26,520	18,780	19,180
30	35,140	35,340	34,830	34,360	-----	35,820	38,140	39,800	40,730	26,130	18,460	19,260
31	35,100	-----	34,810	34,380	-----	35,850	-----	39,880	-----	25,790	18,130	-----
MAX	35,800	35,340	35,320	34,870	34,870	35,850	38,140	39,880	41,040	40,420	25,560	19,260
MIN	34,810	34,980	34,810	34,360	34,380	34,850	35,910	38,240	38,630	25,790	18,130	17,390
CHANGE	-860	240	-530	-430	490	980	2,290	1,740	850	-14,940	-7,660	1,130
CAL YEAR 1996			MEAN	33,385	MAX	40,040	MIN	21,770				
WTR YEAR 1997			MEAN	33,289	MAX	41,040	MIN	17,390				

# REPUBLICAN RIVER BASIN

## MEDICINE CREEK below Harry Strunk Lake, 06842500 - 1997

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 good, records from 5 to 10 cubic feet per second fair, records below 5 cubic feet per second 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 359 cubic feet per second August 26, gage height 2.84 feet; minimum daily discharge 0.16 cubic feet per second September 19.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1996 TO SEP 1997

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	49	51	59	59	60	35	1.4	52	157	171	142
2	148	49	53	59	59	60	35	2.5	53	229	159	127
3	147	49	58	59	59	60	35	1.4	69	263	178	141
4	125E	49	58	59	59	60	35	1.6	78	256	148	126
5	100E	49	58	59	59	60	36	1.8	78	253	197	13
6	96E	51	60	59	59	60	36	2.1	76	255	225	1.1
7	96E	51	61	58	59	60	35	3.5	74	234	150	.76
8	56E	51	61	57	59	60	35	4.3	72	223	105	1.1
9	38E	51	59	57	59	60	36	3.2	72	223	103	1.3
10	38E	51	59	57	59	60	36	2.4	77	211	117	1.2
11	38E	51	59	57	59	48	36	6.4	72	203	91	.66
12	36E	52	59	58	59	35	35	8.4	66	203	36	.63
13	36E	53	59	59	59	36	35	9.0	61	233	26	.42
14	36E	51	60	59	59	36	15	9.9	60	320	27	.35
15	37E	51	61	59	59	35	.97	11	59	343	27	.25
16	37	51	61	59	59	35	.97	12	59	339	45	.17
17	38	51	61	59	59	34	.97	13	59	318	63	.17
18	38	51	60E	59	59	35	.98	15	71	269	154	.17
19	37	51	62E	59	59	36	1.3	17	78	250	209	.16
20	36	51	61	59	59	36	.99	17	78	250	195	.25
21	36	51	61	60	59	36	.99	17	78	260	214	.37
22	36	51	61	61	60	36	1.1	18	78	270	196	.40
23	36	51	61	60	60	36	1.3	21	58	253	183	.46
24	36	51	61	60	60	36	1.4	21	59	233	209	.40
25	35	50	61	60	60	35	1.3	22	106	234	310	.32
26	35	51	61	60	60	35	1.4	24	138	239	348	.30
27	35	51	61	60	60	36	1.7	40	152	244	345	.25
28	34	51	60	60	60	36	1.8	52	161	246	299	.27
29	34	51	59	60	-----	36	1.7	52	157	238	233	.40
30	43	51	59	60	-----	36	1.3	51	154	237	201	.35
31	49	-----	59	60	-----	36	-----	52	-----	221	203	-----
TOTAL	1,772	1,522	1,845	1,831	1,659	1,360	495.17	512.9	2,505	7,707	5,167	561.21
MEAN	57.2	50.7	59.5	59.1	59.3	43.9	16.5	16.5	83.5	249	167	18.7
MAX	150	53	62	61	60	60	36	52	161	343	348	142
MIN	34	49	51	57	59	34	.97	1.4	52	157	26	.16
AC-FT	3,510	3,020	3,660	3,630	3,290	2,700	982	1,020	4,970	15,290	10,250	1,110
CAL YEAR 1996	TOTAL	13,057.92	MEAN	35.7	MAX	214	MIN	.27	AC-FT	25,900		
WTR YEAR 1997	TOTAL	26,937.28	MEAN	73.8	MAX	348	MIN	.16	AC-FT	53,430		

# REPUBLICAN RIVER BASIN

**TURKEY CREEK at Edison, 06844210 - 1997**

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.

E indicates estimated daily discharge. Estimated records November 26-30, December 20-January 2, January 8-17, 27-28. Records are good, except estimated records are fair.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1,040 cubic feet per second July 27, 1993, gage height 14.28 feet; minimum daily discharge 0.01 cubic feet per second September 6, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharge 45 cubic feet per second January 30, gage height 4.50 feet; maximum gage height 4.65 feet January 13 due to backwater from ice; minimum daily discharge 4.7 cubic feet per second September 12.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1996 TO SEP 1997

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	18	18	17 E	24	21	19	20	17	13	5.4	6.8
2	14	18	17	19 E	22	21	20	20	17	12	6.1	6.0
3	14	18	17	20	21	21	20	20	17	12	5.4	5.7
4	15	17	17	19	20	20	20	19	18	12	5.2	5.3
5	15	18	17	18	20	19	21	19	18	11	5.7	5.3
6	15	17	16	16	18	19	21	19	17	11	6.8	5.8
7	15	17	17	12	19	19	20	18	17	11	6.7	5.8
8	15	16	16	11 E	19	20	19	18	17	10	5.0	5.1
9	15	16	16	10 E	19	20	19	18	17	9.8	5.1	4.9
10	15	16	16	10 E	19	20	19	17	17	10	5.5	5.0
11	15	16	16	10 E	18	20	20	17	17	9.8	6.9	5.2
12	15	16	16	10 E	18	21	21	17	19	8.7	7.6	4.7
13	16	16	16	11 E	18	21	20	17	18	8.5	5.9	4.9
14	15	16	16	12 E	18	21	20	17	17	9.1	6.6	4.9
15	15	17	16	13 E	19	20	20	17	17	9.0	11	4.8
16	15	23	15	14 E	21	20	19	16	17	9.0	6.9	4.8
17	15	23	14	15 E	21	20	19	16	17	8.0	5.6	5.0
18	15	19	14	16	20	20	19	16	17	8.2	5.6	5.3
19	15	19	13	23	20	20	19	16	17	7.9	6.3	5.3
20	16	19	12E	31	19	20	19	16	16	8.3	6.4	5.3
21	16	18	13E	25	19	19	20	16	16	8.3	6.0	5.6
22	15	17	14E	23	19	20	20	16	16	7.9	6.3	6.5
23	15	17	13E	20	19	19	19	17	16	7.1	6.9	7.8
24	15	15	11E	18	20	20	19	19	16	6.4	6.7	8.5
25	15	14	10E	15	20	19	19	18	16	6.4	6.4	8.7
26	15	13E	11E	9.3	20	19	19	18	17	6.6	6.2	7.4
27	16	13E	12E	9.0E	21	19	19	19	15	6.5	6.2	7.1
28	16	14E	13E	12 E	21	19	19	18	15	6.8	6.1	7.3
29	17	16E	14E	15	-----	19	20	17	15	6.5	6.1	7.1
30	17	17E	15E	33	-----	19	20	18	14	6.8	6.0	7.2
31	17	-----	16E	28	-----	19	-----	17	-----	6.1	6.2	-----
TOTAL	473	509	457	514.3	552	614	588	546	500	273.7	194.8	179.1
MEAN	15.3	17.0	14.7	16.6	19.7	19.8	19.6	17.6	16.7	8.83	6.28	5.97
MAX	17	23	18	33	24	21	21	20	19	13	11	8.7
MIN	14	13	10	9.0	18	19	19	16	14	6.1	5.0	4.7
AC-FT	938	1,010	906	1,020	1,090	1,220	1,170	1,080	992	543	386	355
CAL YEAR 1996 TOTAL		7,746.8		MEAN 21.2		MAX 707		MIN 6.0		AC-FT 15,370		
WTR YEAR 1997 TOTAL		5,400.9		MEAN 14.8		MAX 33		MIN 4.7		AC-FT 10,710		

# REPUBLICAN RIVER BASIN

## BEAVER CREEK near Beaver City, 06847000 - 1997

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.  
E indicates estimated daily discharges. Estimated daily discharges November 24-26,28, December 4-6, 12, January 5-6, 25, February 2, 6, 8, 10-11, 13-15, 23-25, 27-28, April 11-12. Records fair, except estimated records poor and records below 5 cubic feet per second 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 439 cubic feet per second June 26, gage height 8.95 feet; minimum daily discharge 0.48 cubic feet per second September 19.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1996 TO SEP 1997

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	14	15	15	14	17	15	16	13	9.4	1.6	.90
2	33	13	16	14	14E	16	16	16	13	8.8	1.4	.90
3	31	13	15	15	14	18	16	16	13	8.4	1.5	.90
4	30	14	12E	15	13	16	16	16	12	7.9	1.4	.90
5	29	13	12E	14E	13	17	16	16	12	7.8	1.2	.97
6	29	14	14E	14E	13E	17	15	16	12	7.5	1.6	.96
7	27	12	15	14	14	17	14	16	12	7.6	1.6	.86
8	25	13	14	13	14E	17	13	16	15	7.0	1.4	.75
9	24	13	16	14	13	18	14	15	33	6.6	1.4	.74
10	23	13	15	14	13E	18	14	15	27	6.3	1.4	.70
11	22	14	15	13	13E	19	12E	16	22	5.8	1.7	.68
12	21	13	15	14	13	18	12E	16	20	5.5	1.7	.61
13	20	13	15	15	13E	18	13	16	19	5.2	1.5	.62
14	20	13	15	16	14E	18	14	16	17	4.5	1.3	.64
15	20	13	14	16	14E	18	15	15	16	4.1	1.2	.68
16	19	17	14	15	15	18	14	15	15	3.8	1.1	.61
17	18	16	12E	16	16	19	15	15	14	3.2	1.1	.55
18	17	16	14	16	16	19	15	14	13	2.9	1.1	.53
19	17	16	16	15	16	19	15	14	12	2.6	1.2	.48
20	17	16	16	15	17	19	15	14	11	2.6	1.1	.52
21	17	16	16	14	17	19	15	14	11	2.6	1.1	.55
22	16	15	16	14	16	19	15	14	10	2.6	1.0	.87
23	16	15	15	14	15E	19	15	15	9.5	2.4	1.0	1.5
24	16	12E	15	13	15E	18	15	14	8.8	2.2	1.1	1.3
25	16	14E	15	12E	15E	17	15	14	13	2.0	1.0	.94
26	16	14E	16	12	16	17	15	14	255	1.8	.96	.85
27	15	14	16	13	15E	17	15	14	34	1.6	.99	.80
28	15	14E	16	14	15E	16	15	14	17	1.6	.94	.79
29	15	15	16	14	-----	16	16	14	12	1.8	.97	.75
30	13	15	16	15	-----	16	16	14	10	1.8	.91	.70
31	14	-----	16	14	-----	16	-----	13	-----	1.7	.90	-----
TOTAL	650	423	463	442	406	546	441	463	701.3	139.6	38.37	23.55
MEAN	21.0	14.1	14.9	14.3	14.5	17.6	14.7	14.9	23.4	4.50	1.24	.79
MAX	39	17	16	16	17	19	16	16	255	9.4	1.7	1.5
MIN	13	12	12	12	13	16	12	13	8.8	1.6	.90	.48
AC-FT	1,290	839	918	877	805	1,080	875	918	1,390	277	76	47
CAL YEAR 1996	TOTAL	7,013.04	MEAN	19.2	MAX	417	MIN	.69	AC-FT	13,910		
WTR YEAR 1997	TOTAL	4,736.82	MEAN	13.0	MAX	255	MIN	.48	AC-FT	9,400		

# REPUBLICAN RIVER BASIN

## HARLAN COUNTY RESERVOIR near Republican City, 06849000 - 1997

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.--Published by U.S. Geological Survey up to Oct. 1, 1994.  
Area and storage data provided by the U.S. Army Corps of Engineers.

STORAGE CAPACITY TABLE.--elevation in feet, storage in acre-feet

	1,928	128,300	1,940	243,100	1,955	449,810
	1,930	144,300	1,945	302,000	1,960	536,460
	1,935	190,800	1,950	371,310		

### DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1996 TO SEP 1997

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	317,500	293,800	301,400	307,200	325,900	349,400	369,700	343,000	342,700	336,500	283,900	255,400
2	316,200	294,300	302,400	307,800	326,600	349,800	371,000	343,400	343,000	334,400	282,400	254,600
3	314,400	294,800	302,900	308,600	327,600	350,900	371,200	343,100	342,700	333,000	280,800	254,200
4	313,100	295,500	303,800	309,600	328,300	351,500	370,900	343,100	343,100	330,900	279,100	253,900
5	311,800	296,200	304,600	310,100	329,000	352,400	370,400	342,800	343,200	329,600	277,500	253,600
6	310,500	296,700	305,400	310,900	330,000	352,900	367,600	342,400	343,100	327,600	276,300	253,400
7	309,700	297,200	306,000	311,500	330,800	354,000	365,900	342,700	343,000	325,700	274,600	253,300
8	308,100	297,600	306,700	312,300	331,800	355,000	364,600	342,400	342,800	324,800	272,700	253,100
9	306,600	298,200	307,600	313,000	332,700	355,700	363,300	342,300	342,800	323,400	271,400	252,800
10	304,700	298,400	308,400	313,500	333,300	356,100	362,200	342,000	342,800	321,800	269,800	252,700
11	303,200	298,900	309,200	314,000	334,100	357,000	361,500	341,700	343,100	319,900	269,600	252,400
12	301,700	299,500	309,800	314,400	334,800	358,000	360,000	341,300	343,100	318,400	268,600	252,500
13	300,100	300,100	310,500	315,000	335,600	358,700	358,300	341,300	343,200	317,200	267,600	252,400
14	298,700	300,600	311,800	315,500	336,300	358,700	357,100	340,900	343,100	315,500	267,200	252,300
15	297,100	302,000	311,800	316,000	337,000	359,500	356,000	340,600	343,100	313,600	266,900	252,200
16	296,000	305,700	312,800	316,400	337,800	360,300	354,700	340,600	343,100	311,800	266,000	252,200
17	294,700	306,000	313,100	316,800	338,800	361,200	353,400	340,600	343,100	309,900	265,200	251,900
18	293,500	307,000	312,200	317,400	339,800	361,800	352,100	340,600	342,800	308,400	265,100	251,800
19	292,600	307,900	309,700	317,800	340,300	362,400	350,500	340,200	342,000	306,500	264,900	251,500
20	292,200	307,300	308,500	318,400	341,600	363,300	349,400	339,900	341,800	304,700	264,200	251,300
21	291,100	305,400	308,300	319,100	342,100	363,700	348,200	339,500	340,500	303,000	263,400	251,200
22	290,600	304,000	308,300	319,600	342,800	364,300	346,900	339,600	339,400	301,200	263,300	251,800
23	290,100	302,900	308,000	320,300	344,000	364,600	345,500	340,500	338,300	299,200	262,700	253,700
24	289,900	300,800	307,700	321,000	345,200	365,900	344,100	340,200	338,000	297,100	262,200	253,900
25	290,400	299,000	307,600	321,500	346,100	366,000	343,700	342,000	338,000	295,100	261,500	254,000
26	290,900	297,600	307,200	322,600	347,100	366,300	343,400	342,000	337,400	293,500	260,300	254,100
27	291,100	297,900	307,000	323,200	347,400	367,200	342,700	342,100	337,400	291,800	259,400	254,300
28	291,600	298,500	306,700	323,400	348,800	367,500	342,300	342,100	338,900	290,200	258,200	254,300
29	292,600	300,000	306,400	324,100	-----	368,400	342,400	342,700	338,700	288,400	257,600	254,200
30	293,000	300,800	306,300	324,800	-----	368,800	342,700	342,700	337,200	286,600	256,800	254,300
31	293,500	-----	306,600	325,200	-----	369,100	-----	342,700	-----	285,100	255,500	-----
MAX	317,500	307,900	313,100	325,200	348,800	369,100	371,200	343,400	343,200	336,500	283,900	255,400
MIN	289,900	293,800	301,400	307,200	325,900	349,400	342,300	339,500	337,200	285,100	255,500	251,200
CHANGE	-25,600	7,300	5,800	18,591	23,596	20,315	-26,419	0	-5,533	-52,048	-29,553	-1,249
CAL YEAR 1996			MEAN	302,500	MAX	379,700	MIN	263,900				
WTR YEAR 1997			MEAN	315,800	MAX	371,200	MIN	251,200				

# REPUBLICAN RIVER BASIN

## THOMPSON CREEK at Riverton, 06851500 - 1997

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.

E indicates estimated daily discharge. Estimated daily discharges; November 10-14, 16-17, 24-28, December 16-January 20, January 24-31, February 6-13, 23-28, March 4, 14-15, July 28-August 6. Records 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 343 cubic feet per second August 14, gage height 6.45 feet; minimum daily discharge 13 cubic feet per second estimated August 4-6.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1996 TO SEP 1997

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	25	25	16E	19	23	23	26	28	18	18E	23
2	18	25	26	17E	22	25	29	28	25	16	17E	22
3	18	25	24	18E	22	24	26	27	26	19	14E	21
4	16	25	21	18E	22	23E	30	30	26	19	13E	20
5	19	27	20	19E	20	23	30	24	23	20	13E	18
6	19	28	18	19E	20E	20	27	25	22	20	13E	17
7	19	28	20	20E	20E	19	28	25	20	19	15	17
8	18	29	16	19E	21E	19	25	22	21	21	15	17
9	18	28	17	17E	21E	20	26	23	22	22	19	18
10	21	26E	19	16E	20E	20	31	22	22	21	23	17
11	21	27E	19	15E	20E	20	29	21	24	20	30	17
12	21	26E	20	15E	21E	19	26	22	25	21	34	17
13	21	26E	17	14E	22E	18	24	22	21	22	30	17
14	20	29E	18	18E	23	16E	24	22	20	19	173	17
15	20	32	17	18E	25	15E	24	21	19	15	47	17
16	19	155E	16E	18E	25	16	24	21	19	14	33	17
17	20	90E	16E	17E	25	19	24	22	18	14	33	17
18	19	46	15E	19E	25	17	23	22	19	14	34	17
19	19	38	15E	22E	28	18	22	22	19	14	37	17
20	20	30	20E	24E	27	21	23	23	19	16	29	17
21	20	31	17E	25	27	21	23	23	19	16	26	17
22	20	29	15E	26	28	25	24	25	18	16	26	18
23	22	27	14E	26	27E	26	23	24	21	16	25	22
24	23	26E	14E	24E	25E	28	23	28	33	17	23	25
25	23	24E	15E	23E	23E	26	24	32	37	15	22	21
26	23	23E	16E	20E	24E	25	22	39	35	18	23	16
27	23	24E	18E	17E	22E	26	23	78	27	21	21	15
28	24	25E	20E	16E	23E	27	26	34	21	22E	21	15
29	25	25	16E	15E	-----	27	26	31	22	21E	22	15
30	24	24	20E	17E	-----	25	25	31	20	19E	21	15
31	25	-----	14E	20E	-----	23	-----	30	-----	19E	22	-----
TOTAL	636	1,023	558	588	647	674	757	845	691	564	892	539
MEAN	20.5	34.1	18.0	19.0	23.1	21.7	25.2	27.3	23.0	18.2	28.8	18.0
MAX	25	155	26	26	28	28	31	78	37	22	173	25
MIN	16	23	14	14	19	15	22	21	18	14	13	15
AC-FT	1,260	2,030	1,110	1,170	1,280	1,340	1,500	1,680	1,370	1,120	1,770	1,070
CAL YEAR 1996	TOTAL	18,043.7	MEAN	49.3	MAX	1,020	MIN	6.5	AC-FT	35,790		
WTR YEAR 1997	TOTAL	8,414.0	MEAN	23.1	MAX	173	MIN	13	AC-FT	16,690		

# REPUBLICAN RIVER BASIN

**ELM CREEK at Amboy, 06852000 - 1997**

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.  
E indicates estimated daily discharge. Estimated records December 25-28, January 10-11, 16-17, 28-29, June 10-12.  
Records good, except estimated records poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 7,800 cubic feet per second September 29, 1983 at gage height 16.96 ft. from flood mark; maximum gage height 17.05 ft. July 4, 1959; minimum daily discharge 6.2 cubic feet per second August 28, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharge 599 cubic feet per second November 17, gage height 13.07 feet; minimum daily discharge 10 cubic feet per second August 27-31, September 6, 15-20.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1996 TO SEP 1997

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	15	17	17	16	17	16	15	14	16	11	11
2	13	14	16	17	16	17	16	16	13	15	11	11
3	14	14	16	17	16	17	16	15	17	15	11	11
4	14	14	16	17	16	16	16	14	16	14	11	11
5	13	14	16	17	16	16	17	14	15	14	11	11
6	13	15	16	16	16	16	15	14	14	14	11	10
7	14	15	16	17	16	16	15	14	14	14	12	11
8	13	15	16	17	16	17	15	14	14	30	12	11
9	13	15	16	16	16	17	15	14	13	16	12	11
10	13	15	17	15E	16	16	15	14	14E	16	12	11
11	13	15	17	15E	16	16	16	14	14E	15	14	11
12	13	15	17	15	16	16	15	14	15E	15	13	11
13	13	14	17	15	16	17	16	14	15	14	13	11
14	13	15	17	16	16	16	16	14	15	14	15	11
15	13	16	17	16	16	16	15	14	15	13	13	10
16	13	132	17	15E	16	17	15	13	15	13	12	10
17	13	190	17	15E	16	17	15	13	15	13	13	10
18	13	65	17	16	17	16	15	13	14	12	13	10
19	13	30	17	16	16	16	15	13	14	13	14	10
20	13	21	17	16	16	16	14	13	14	13	13	10
21	13	18	17	16	16	16	14	13	27	13	13	11
22	13	17	17	16	16	16	14	13	17	13	13	11
23	13	16	17	16	16	16	14	14	15	12	12	12
24	13	16	17	16	16	17	14	13	108	12	12	13
25	13	16	17E	16	16	16	14	15	112	12	12	12
26	14	15	16E	16	16	16	14	19	26	11	11	11
27	13	16	16E	15	16	16	14	25	19	11	10	11
28	14	16	16E	15E	17	16	14	26	17	13	10	11
29	14	17	17	15E	-----	16	14	17	17	13	10	11
30	15	17	16	16	-----	16	16	15	16	13	10	11
31	14	-----	16	16	-----	16	-----	14	-----	12	10	-----
TOTAL	412	823	514	494	450	505	450	463	664	434	370	327
MEAN	13.3	27.4	16.6	15.9	16.1	16.3	15.0	14.9	22.1	14.0	11.9	10.9
MAX	15	190	17	17	17	17	17	26	112	30	15	13
MIN	13	14	16	15	16	16	14	13	13	11	10	10
AC-FT	817	1,630	1,020	980	893	1,000	893	918	1,320	861	734	649
CAL YEAR 1996	TOTAL	11,176	MEAN	30.5	MAX	1,600	MIN	10	AC-FT	22,170		
WTR YEAR 1997	TOTAL	5,906	MEAN	16.2	MAX	190	MIN	10	AC-FT	11,710		



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