

1998

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**

1998

**Prepared Under the Direction of Roger Patterson, Director
Department of Water Resources**



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HYDROGRAPHIC REPORT

1998

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 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. These data are not published in this report.

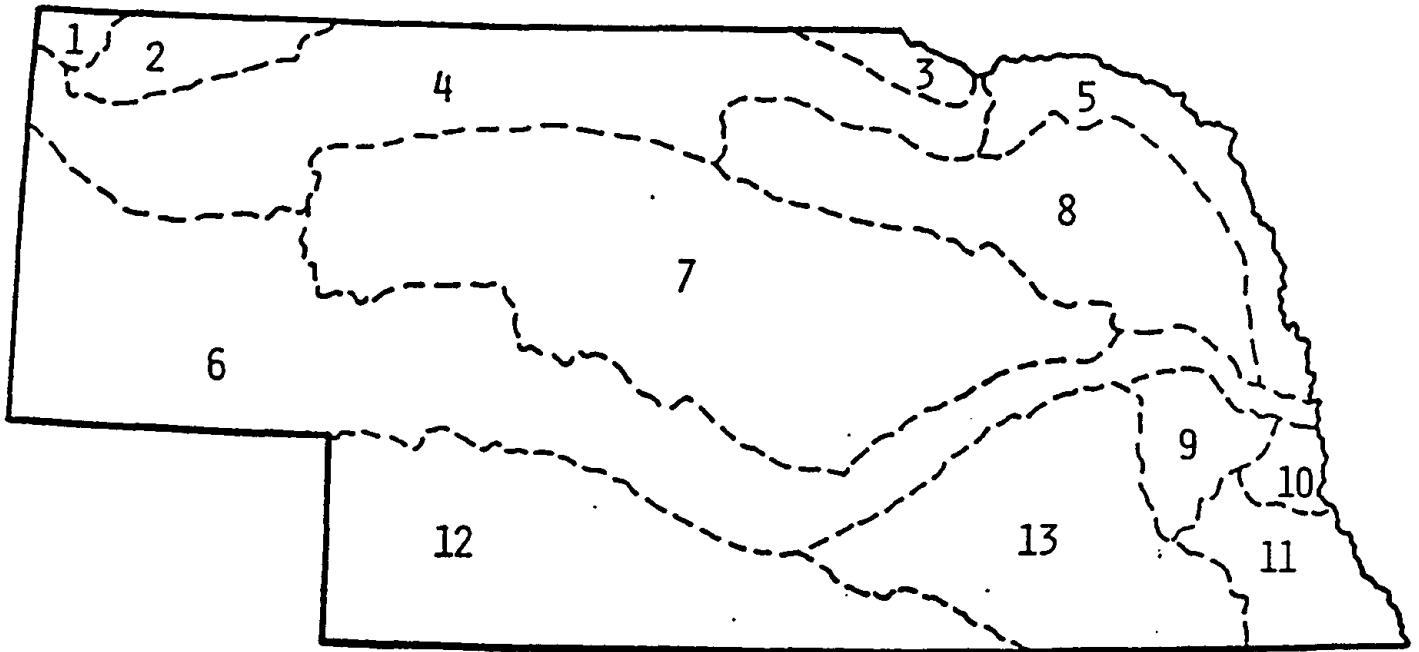
The Hydrographic Report for water year 1998 provides a record of stream flow, reservoir storage, and diversions for irrigation and power in Nebraska for gages operated by the Nebraska Department of Water Resources according to statutory authority granted under Statutes 46-212, 46-227, and 46-234. This report also includes some records for gages operated by other agencies besides the Department of Water Resources and U.S. Geological Survey. These sites are identified in the station headings. Stations are listed in order from upstream to downstream (downstream order) according to the river basin map on the next page. Multiple gages on a canal system are also in downstream order on the canal. The data presented include mean daily discharges for streams and canals and both daily and monthly reservoir storage values. Instantaneous and daily discharge values are expressed in cubic feet per second (cfs), monthly and annual totals are cubic foot per second-days (cfs-days) and acre-feet. Reservoir storage values are in acre-feet. Zero means there is no flow, a blank indicates no record was made. An "E" next to a daily record indicates an estimated value. Estimated values usually result from either a poor stage-discharge relationship due to a backwater condition or a missing or poor gage height record. Headings describe the period of record, type of gage and locations of gage sites by legal coordinates of Section, Township, and Range, East or West of the 6th Principal Meridian. The "Remarks" section for stations operated year round includes a statement on the accuracy of daily records. U.S. Geological Survey criteria are adopted for these accuracy ratings: If 95 percent of daily discharges are within 5 percent of true values the record is rated "excellent," if they are within 10 percent, the rating is "good," within 15 percent is "fair," and less than 15 percent is "poor."

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

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

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. Questions or comments can be directed to Guy H. Lindeman at this address or call (402) 471-2363.

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. A stream gage station list is available on the Internet at the Natural Resources Commission home page address 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

1998

HYDROGRAPHIC REPORT

WHITE RIVER BASIN

WHITE RIVER at Crawford, 06444000 - 1998

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

DRAINAGE AREA.--313 square miles.

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 115 cubic feet per second July 9, gage height 3.88 feet; minimum daily discharge 11 cubic feet per second July 19, 29 and September 3.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	20	22	24	25	21E	27	21	19	16	16	14
2	14	19	22	24	24	19E	26	21	18	20	15	12
3	15	18	22	24	24	21	25	20	19	18	17	11
4	15	19	21	21E	24	23	24	20	21	17	19	12
5	15	19	18E	22E	23	21E	23	20	22	17	18	12
6	15	20	20E	23	24	20E	23	20	21	18	16	12
7	15	20	22E	21E	23	21E	24	21	20	17	15	13
8	16	20	21	21E	23	23E	24	21	23	20	15	13
9	16	21	21	20E	23	24E	24	21	22	45	15	13
10	16	21	21	19E	23	24E	24	21	21	21	14	12
11	17	21	18E	20E	24	21E	23	29	21	19	20	12
12	18	20	18E	21E	24	25	23	27	21	16	17	12
13	18	21	23	22E	23	25	23	24	20	15	15	13
14	17	16E	23	23E	24	28	25	23	23	15	14	13
15	17	15E	22	24	23	27	32	27	21	16	14	13
16	17	17E	23	24	24	25	27	24	20	14	13	12
17	17	20E	23	24	24	26	26	22	24	13	12	13
18	17	20E	22	25	23	26	26	21	27	13	13	12
19	17	23	22	25	22	25	26	21	25	11	14	12
20	18	22	19E	25	22	25	25	22	20	11	17	12
21	18	22	20E	24	22	25	25	22	19	12	17	19
22	18	22	21E	24	22	25	24	26	19	14	26	17
23	18	22	20	24	22	25	23	25	32	16	17	16
24	15E	23	23E	24	22	25	23	24	25	17	15	16
25	14E	23	23	24	22E	25	23	22	21	19	15	15
26	16E	22	22	24	17E	25	23	21	19	30	15	14
27	21	22	23	24	19E	25	22	20	18	17	14	14
28	22	22	22	25	20E	27	22	19	16	15	15	14
29	22	22	25	24	-----	37	21	19	16	15	14	15
30	22	21	25	24	-----	31	21	21	15	16	13	14
31	22	-----	24	24	-----	28	-----	19	-----	17	14	-----
TOTAL	533	613	671	717	635	768	727	684	628	540	484	402
MEAN	17.2	20.4	21.6	23.1	22.7	24.8	24.2	22.1	20.9	17.4	15.6	13.4
MAX	22	23	25	25	25	37	32	29	32	45	26	19
MIN	14	15	18	19	17	19	21	19	15	11	12	11
AC-FT	1,060	1,220	1,330	1,420	1,260	1,520	1,440	1,360	1,250	1,070	960	797
CAL YEAR 1997 TOTAL		7,579.00	MEAN	20.8	MAX	104	MIN	11	AC-FT	15,030		
WTR YEAR 1998 TOTAL		7,402.00	MEAN	20.3	MAX	45	MIN	11	AC-FT	14,680		

E indicated estimated discharge.

WHITE RIVER BASIN

WHITNEY RESERVOIR from White River, 00410000 - 1998

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 WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			8,270									
2												
3												
4												
5												
6												
7												
8												
9												
10												
11											6,990	
12												
13										9,215		
14												
15												
16								10,565				
17												
18												
19								9,575				
20					9,233							
21												
22												
23												
24						10,592						
25												
26												
27								10,475				
28										7,852		
29												
30												4,125
31		-----	8,280		-----		-----		-----			-----

NIOBRARA RIVER BASIN

NIOBRARA RIVER at Wyoming-Nebraska State Line, 06454000 - 1998

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

DRAINAGE AREA.--Approximately 455 square miles.

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

PERIOD OF RECORD.--1955 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 10.3 cubic feet per second March 22, gage height 2.17 feet; maximum gage height 3.23 feet February 26 due to backwater from snow in channel; minimum daily discharge 1.6 cubic feet per second September 27.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	3.0E	3.4	3.7	3.4	4.0E	7.8	4.8	3.6E	2.3	2.4	1.8
2	2.8	3.2E	3.6	4.0	3.4	4.5E	7.5	4.7	3.4E	2.3	2.3	1.7
3	2.8	3.3E	3.7	4.1	3.5	4.6	7.2	4.6	3.4E	2.3	2.3	1.7
4	2.8E	3.3E	3.8	3.7	3.5	4.5	7.0	4.5	3.4E	2.4	2.7	1.7
5	2.8E	3.3E	3.6	3.8	3.6	4.3	6.8	4.3	3.4E	2.4	2.6	1.8
6	2.7E	3.3	3.4	3.6	3.6	3.5	6.9	4.2	3.4E	2.4	2.5	1.8
7	2.7E	3.3	3.5	3.4	3.7	4.7	7.5	4.1E	3.4E	2.5	2.3	1.9
8	2.7E	3.3	3.5	3.5	3.7	3.9	7.8	4.1E	3.4E	3.0	2.4	1.9
9	2.7E	3.4	3.6	3.4	3.8	3.9	7.4	4.2E	3.4E	3.1	2.9	1.9
10	2.7E	3.2	3.7	3.3	3.8	3.8	6.9	4.2E	3.4	3.3	2.7	1.8
11	2.7E	3.2	3.3	3.2	3.8	3.6	6.7	4.3E	3.3	3.1	2.6	1.8
12	2.6E	3.2	3.4	3.1	5.3	4.0	6.5	4.4E	3.3	2.9	2.7	1.8
13	2.6E	3.0	3.4	3.1	4.2	4.6	6.2	5.0E	3.2	2.7	2.6	1.9
14	2.6E	3.2	3.4	3.2	4.3	5.2	6.6	5.0E	3.7	2.6	2.8	1.8
15	2.6E	3.0	3.5	3.2	4.6	5.4	7.5	4.8E	3.2	2.5	3.2	1.8
16	2.7E	3.0	3.5	3.2	5.0	6.8	7.7	4.6E	3.1	2.4	2.8	1.8
17	2.7E	3.0	3.6	3.2	5.0	8.6	7.3	4.4E	3.7	2.2	2.6	1.7
18	2.7E	3.3	3.6	3.3	5.0	8.5	6.8	4.4E	3.9	2.1	2.7	1.7
19	2.8E	3.8	3.6	3.2	4.9	7.9	6.3	4.2E	3.5	2.0	2.6	1.7
20	2.8E	3.9	3.4	3.3	4.9	8.0	6.0	4.0E	3.1	2.0	2.6	1.8
21	2.8E	3.7	3.5	3.2	4.9	8.5	5.9	4.0E	2.9	2.2	2.5	3.0
22	2.8E	3.5	3.4	3.1	5.0	9.5	5.8	3.9E	2.9	2.2	2.3	2.5
23	2.7E	3.3	3.2	3.2	5.3	8.7	5.7	3.9E	3.6	2.1	2.2	2.3
24	2.5E	3.3	3.3	3.2	5.5	8.6	5.5	3.8E	3.2	2.1	2.2	1.8
25	2.4E	3.4	3.2	3.3	5.4E	8.2	5.3	3.8E	3.0	3.6	2.1	1.7
26	2.8E	3.3	3.2	3.3	5.0E	7.9	5.1	3.8E	2.8	4.6	2.1	1.7
27	3.1E	3.5	3.1	3.4	4.5E	7.6	5.2	3.8E	2.5	2.4	2.0	1.6
28	3.1E	3.5	4.3	3.4	4.0E	7.8	5.2	3.6E	2.3	2.2	1.8	1.7
29	3.1E	3.4	3.6	3.4	-----	8.1	5.0	3.6E	2.4	2.2	1.9	1.7
30	3.2E	3.4	3.6	3.4	-----	8.5	4.9	3.6E	2.4	2.4	1.9	1.7
31	3.2E	-----	3.5	3.5	-----	8.4	-----	3.6E	-----	2.5	1.8	-----
TOTAL	86.1	99.5	108.4	104.9	122.6	196.1	194.0	130.2	96.2	79.0	75.1	55.5
MEAN	2.78	3.32	3.50	3.38	4.38	6.33	6.47	4.20	3.21	2.55	2.42	1.85
MAX	3.2	3.9	4.3	4.1	5.5	9.5	7.8	5.0	3.9	4.6	3.2	3.0
MIN	2.4	3.0	3.1	3.1	3.4	3.5	4.9	3.6	2.3	2.0	1.8	1.6
AC-FT	171	197	215	208	243	389	385	258	191	157	149	110
CAL YEAR 1997 TOTAL		1,364.7	MEAN	3.74	MAX	13	MIN	1.8	AC-FT	2,710		
WTR YEAR 1998 TOTAL		1,347.6	MEAN	3.69	MAX	9.5	MIN	1.6	AC-FT	2,670		

E indicates estimated discharge.

NIOBRARA RIVER BASIN

JOHNSON CANAL from Niobrara River, 00072000 - 1998

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

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

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								3.5	.84	.25	0	0
2								3.7	.12	.21	0	0
3								3.7	.12	.19	0	0
4								3.8	.15	.07	0	0
5								3.5	.20	0	0	0
6								3.2	.19	0	0	0
7								3.4	.19	0	0	0
8								3.5	.21	0	0	0
9								3.7	.22	0	0	0
10								3.8	.19	0	0	0
11								4.4	.17	0	0	0
12								4.7	.16	0	0	0
13								4.8	.17	0	0	0
14								4.5	.22	0	0	0
15							2.5 E	4.5	.23	0	0	0
16							3.0 E	4.2	.24	0	0	0
17							4.5 E	4.1	.38	0	0	0
18							4.8 E	3.8	.43	0	0	0
19							4.9 E	3.4	.40	0	0	0
20							4.9	2.9	.35	0	0	0
21							4.9	2.0	.30	0	0	0
22							4.8	2.6	.26	0	0	0
23							4.7	2.9	.37	0	0	0
24							3.2	2.6	.33	0	0	0
25							1.2	2.5	.31	0	0	0
26							1.1	2.2	.28	0	0	0
27							1.0	1.8	.27	0	0	0
28							1.1	1.5	.25	0	0	0
29							-----	.97	1.3	.24	0	0
30							-----	2.0	1.4	.22	0	0
31		-----					-----	1.3	-----	0	0	-----
TOTAL							49.57	99.2	8.01	0.72	0	0
MEAN							3.10	3.20	.27	.023	0	0
MAX							4.9	4.8	.84	.25	0	0
MIN							.97	1.3	.12	0	0	0
AC-FT							98	197	16	1.4	0	0
CAL YEAR 1997	MAX	5.6	MIN	0	AC-FT	359						
WTR YEAR 1998	MAX	4.9	MIN	0	AC-FT	312						

E indicates estimated discharge.

NIOBRARA RIVER BASIN

LAKOTA CANAL from Niobrara River, 00079000 - 1998

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

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

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9							0	.97	.76	1.0	.67
2	2.9							0	1.4	.72	1.2	.75
3	3.0							0	1.4	.71	1.4	.76
4	3.4							0	1.5	.70	1.2	.79
5	3.0							0	1.9	.65	1.1	.76
6	2.7							0	2.0	.59	.94	.72
7	3.1							0	1.9	.61	.97	.71
8	3.8							0	1.9	.70	1.1	.78
9	3.8							0	2.0	.78	.95	.93
10	3.8							0	1.8	.90	.90	.99
11	3.8							0	1.5	.98	.92	.61
12	2.9							0	1.5	1.0	.85	.22
13	2.7							0	1.5	1.1	.83	.25
14	1.6							0	1.5	1.1	.76	.93
15								0	1.6	.89	.94	2.5
16								0	1.5	1.2	1.3	.85
17								0	1.7	1.3	1.1	.71
18								0	2.0	.65	1.1	.79
19								.23	2.0	.42	1.1	.79
20							.97	.40	1.8	.40	1.1	.87
21							1.7	1.5	1.6	.46	1.2	2.5
22							1.4	2.1	1.5	.52	1.1	4.1
23							1.1	2.5	1.6	.60	.87	1.2
24							1.1	2.4	2.0	.63	.76	.69
25							2.2	2.1	1.7	.92	.75	.18
26							2.0	1.8	1.6	1.5	.73	.07
27							2.2	1.5	1.3	1.6	.67	0
28							2.5	1.4	1.1	1.5	.63	.14
29					-----		2.5	1.2	.95	1.5	.70	.02
30					-----		.76	1.1	.83	1.2	.78	0
31		-----			-----		-----	1.0	-----	1.1	.67	-----
TOTAL	43.4						18.43	19.23	47.55	27.69	29.62	25.28
MEAN	3.10						1.68	.62	1.59	.89	.96	.84
MAX	3.8						2.5	2.5	2.0	1.6	1.4	4.1
MIN	1.6						.76	0	.83	.40	.63	0
AC-FT	86						37	38	94	55	59	50
CAL YEAR 1997	MAX	6.2	MIN	0	AC-FT	673						
WTR YEAR 1998	MAX	4.1	MIN	0	AC-FT	419						

NIOBRARA RIVER BASIN

EARNEST CANAL (SOUTH) from Niobrara River, 00038100 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0							0	0	2.2	0	0
2	3.0							0	0	2.1	0	0
3	3.0							0	0	2.1	0	0
4	3.0							0	0	2.1	0	0
5	3.0							0	0	2.2	0	0
6	1.7							0	0	2.1	0	0
7	0							0	0	2.0	0	0
8								0	0	2.2	0	0
9								0	.46	2.4	0	0
10								0	1.0	2.4	0	0
11								0	1.1	2.4	0	0
12								0	.35	2.4	0	0
13								0	0	2.2	0	0
14								0	0	2.1	0	0
15								0	0	2.2	0	0
16								0	0	2.2	0	0
17								0	0	2.1	0	0
18								0	2.5	1.8	0	0
19								0	3.6	1.5	0	0
20							.06	0	3.3	1.4	0	0
21							.15	0	3.1	.90	0	0
22							.07	0	2.6	0	0	0
23							0	0	2.5	0	0	0
24							0	0	2.4	0	0	1.9E
25							0	0	2.5	0	0	3.8E
26							0	0	2.4	0	0	3.8E
27							0	0	2.2	0	0	4.0E
28							0	0	2.2	0	0	2.9E
29					-----		0	0	2.2	0	0	2.6
30					-----		0	0	2.1	0	0	2.2
31		-----			-----		-----	0	-----	0	0	-----
TOTAL	16.7						0.28	0	36.53	43.00	0	21.2
MEAN	2.39						.025	0	1.22	1.39	0	.71
MAX	3.0						.15	0	3.6	2.4	0	4.0
MIN	0						0	0	0	0	0	0
AC-FT	33						.6	0	72	85	0	42
CAL YEAR 1997	MAX	4.6	MIN	0	AC-FT	321						
WTR YEAR 1998	MAX	4.0	MIN	0	AC-FT	233						

E indicates estimated discharge.

NIOBRARA RIVER BASIN

EARNEST CANAL (NORTH) from Niobrara River, 00038200 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								2.3	2.5	0	0	0
2								2.3	2.5	0	0	0
3								2.3	2.8	0	0	0
4								2.2	2.9	0	0	0
5								2.2	2.8	0	0	0
6								1.7	2.8	0	0	0
7								0	2.8	0	0	0
8								0	2.7	0	0	0
9								0	2.6	0	0	0
10								0	2.5	0	0	0
11								0	2.5	0	0	0
12								0	2.3	0	0	0
13								0	2.0	0	0	.48
14								0	2.1	0	0	2.3
15								0	2.1	0	0	2.3
16								0	2.3	0	0	2.3
17								0	2.7	0	0	2.6
18								0	1.3	0	0	2.5
19								0	0	0	0	2.3
20							1.0	0	0	0	0	2.1
21								2.8	0	0	0	2.1
22								2.7	0	0	0	2.1
23								2.5	0	0	0	2.2
24								2.4	0	0	0	2.1
25								2.4	0	0	0	1.4
26								2.5	0	0	0	.06
27								2.5	2.5	0	0	.36
28								2.4	2.5	0	0	1.5
29					-----			2.3	2.5	0	0	1.5
30					-----			2.4	2.5	0	0	1.2
31		-----			-----			2.6	-----	0	0	-----
TOTAL							25.9	25.6	44.2	0	0	31.40
MEAN							2.35	.83	1.47	0	0	1.05
MAX							2.8	2.6	2.9	0	0	2.6
MIN							1.0	0	0	0	0	0
AC-FT							51	51	88	0	0	62
CAL YEAR 1997	MAX	3.8	MIN	0	AC-FT	194						
WTR YEAR 1998	MAX	2.9	MIN	0	AC-FT	252						

NIOBRARA RIVER BASIN

McGINLEY-STOVER CANAL from Niobrara River, 00084000 - 1998

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

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

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								4.8E	2.4	1.3	0	0
2								4.6E	2.1	1.3	0	0
3								4.4E	2.1	1.3	0	0
4								4.2E	2.0	1.3	0	0
5								4.0E	1.6	1.2	0	0
6								3.9E	1.4	1.2	0	0
7								5.1	1.7	1.2	0	0
8								5.2	2.0	1.4	0	0
9								5.2	1.9	1.3	0	0
10								5.4	1.9	1.2	0	0
11								7.7	1.8	1.1	0	0
12								7.0	1.8	1.0	0	0
13								7.0	2.1	.97	0	0
14								6.5	1.9	.91	0	0
15								8.3	1.7	.93	0	0
16								7.0	1.8	.85	0	0
17								6.1	1.7	.81	0	0
18								5.7	1.7	.82	0	0
19								5.2	1.8	.97	0	0
20								4.9	1.7	1.5	0	0
21								4.7	1.7	1.6	0	0
22								4.6	1.7	1.7	0	0
23								5.0	.69	1.8	0	0
24								4.1	0	2.1	0	0
25								2.8	0	1.9 E	0	0
26								2.5	0	1.7 E	0	0
27								2.1	0	1.5 E	0	0
28								2.5E	2.0	0	1.3 E	0
29					-----			5.1E	2.7	.52	1.1	0
30					-----			4.9E	3.2	1.4	0	0
31		-----			-----		-----	2.8	-----	0	0	-----
TOTAL							12.5	148.7	43.11	37.26	0	0
MEAN							4.17	4.80	1.44	1.20	0	0
MAX							5.1	8.3	2.4	2.1	0	0
MIN							2.5	2.0	0	0	0	0
AC-FT							25	295	86	74	0	0
CAL YEAR 1997	MAX	21	MIN	0	AC-FT	342						
WTR YEAR 1998	MAX	8.3	MIN	0	AC-FT	479						

E indicates estimated Discharge.

NIOBRARA RIVER BASIN

COOK CANAL NO. 1 from Niobrara River, 00029000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4								.09	.20	0	
2	1.4								.38	.18	0	
3	1.3								.33	.17	0	
4	1.3								.31	.17	0	
5	1.3							.02E	.31	.18	0	
6	1.3 E							.04E	.31	.18E	0	
7	1.3							.08	.30	.18E	0	
8	1.3							.10	.30	.19	0	
9	1.3							.09	.29	.19	0	
10	1.3							.08	.28	.14	0	
11	1.3							.08	.28	.13	0	
12	1.4							.09	.29	.08E	0	
13	1.4							.13	.35	.06E	0	
14	.53							.25	.35	.04E	0	
15	0							.41	.31	0	0	
16								.57	.31	0	0	
17								.73	.36	0	0	
18								.93	.38	0	0	
19								1.2	.39	0	0	
20								1.4	.41	0	0	
21								1.3	.38	0	0	
22								1.2	.36	0	0	
23								1.1	.34E	0	0	
24								.77	.32	0	0	
25								.66	.29	0	0	
26								.55	.28E	0	0	
27								.42	.26E	0	0	
28								.28	.24E	0	0	
29					-----			.19	.22E	0	0	
30					-----			.19	.21E	0	0	
31		-----			-----		-----	.05	-----	0		-----
TOTAL	17.83							12.89	9.23	2.09	0	
MEAN	1.19							.48	.31	.067	0	
MAX	1.4							1.4	.41	.20	0	
MIN	0							.02	.09	0	0	
AC-FT	35							26	18	4.1	0	
CAL YEAR 1997	MAX	1.9	MIN	0	AC-FT	93						
WTR YEAR 1998	MAX	1.4	MIN	0	AC-FT	83						

E indicates estimated discharge

NIOBRARA RIVER BASIN

HARRIS-NEECE CANAL from Niobrara River, 00062000 - 1998

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

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

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	8.6	6.3	7.2	
2								0	8.5	4.8	6.5	
3								0	8.3	5.2	5.6	
4								0	8.6	5.3	5.6	
5								6.6	8.7	5.2	5.5	
6								9.3	8.4	5.4	5.5	
7								9.3	8.5	5.6	5.3	
8								9.3	8.6	6.0	5.4E	
9								9.3	8.7	6.6	5.5E	
10								9.3	8.4	6.9	5.6E	
11								9.6	7.9	6.5	5.7E	
12								9.9	8.0	6.2	5.8	
13								11	8.2	6.0	7.1	
14								11	8.3	5.6	7.2	
15								11	8.7	5.6	7.6	
16								10	8.5	5.9	7.8	
17								9.9	8.7	5.9	7.9	
18								9.3	9.2	5.7	7.8	
19								8.8	4.9	5.6	7.6	
20								8.5	0	5.4	5.4	
21								8.5	0	5.8	0	
22								8.6	0	5.9	0	
23							0	8.6	0	5.6	0	
24							0	8.8	0	5.6	0	
25							0	8.8	0	6.3	0	
26							0	8.9	0	7.0	0	
27							0	8.2	0	7.3		
28							0	8.0	.53	7.3		
29					-----		0	8.0	6.5	6.7		
30					-----		0	8.1	6.6	6.1		
31		-----			-----		-----	8.7	-----	6.8		-----
TOTAL							0	245.3	171.33	186.1	127.6	
MEAN							0	7.91	5.71	6.00	4.91	
MAX							0	11	9.2	7.3	7.9	
MIN							0	0	0	4.8	0	
AC-FT							0	487	340	369	253	
CAL YEAR 1997	MAX	14	MIN	0	AC-FT	2,040						
WTR YEAR 1998	MAX	11	MIN	0	AC-FT	1,450						

E indicates estimated discharge.

NIORARA RIVER BASIN

LABELLE CANAL from Niobrara River, 00078000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

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

No water diverted in 1998.												

NIOBRARA RIVER BASIN

METTLEN CANAL from Niobrara River, 00089000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									2.7	2.8	.33	0
2									2.6	2.2	.92	0
3									2.5	1.9	.56	
4									2.4	2.4	.14	
5									2.5	1.9	0	
6									2.4	1.2	0	
7									3.3	1.2	0	
8									0	1.4	0	
9									0	1.3	0	
10									0	1.6	0	
11									0	1.4	0	
12									0	1.2	0	
13									0	1.1	0	
14									0	1.1	1.8	
15									0	1.0	1.7	
16								1.0E	0	.90	0	
17								2.0E	0	.72	0	
18								2.0E	0	.51	0	
19								2.1E	0	.23	0	
20								2.2	0	.47	0	
21								3.5	0	1.3	0	
22								5.5	.04	1.7	0	
23								5.6	.49	2.7	0	
24								5.2	.31	1.7	0	
25								5.4	.07	2.7	0	
26								5.4	0	0	0	
27								4.9	2.5	0	0	
28								2.7	4.8	0	0	
29					-----			0	4.8	.46	0	
30					-----			1.4	3.7	1.0	0	
31		-----			-----		-----	2.7	-----	.06	0	-----
TOTAL								51.6	35.11	38.15	5.45	0
MEAN								3.23	1.17	1.23	.18	0
MAX								5.6	4.8	2.8	1.8	0
MIN								0	0	0	0	0
AC-FT								102	70	76	11	0
CAL YEAR 1997	MAX	5.4	MIN	0	AC-FT	387						
WTR YEAR 1998	MAX	5.6	MIN	0	AC-FT	258						

E indicates estimated discharge.

NIOBRARA RIVER BASIN

BENNETT-KAY CANAL from Niobrara River, 00013000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1958 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1								0	0	2.1	0	.89	
2								0	0	1.7	0	.93	
3								0	0	2.0	0	.96	
4								0	1.79	1.8	0	1.0	
5								0	3.4	1.7	0	1.2	
6								0	3.3	1.7	0	1.2	
7								0	3.5	1.8	0	1.2	
8								0	4.5	1.8	0	1.1	
9								0	4.1	1.6	0	1.1	
10								0	3.8	1.6	0	1.0	
11								0	3.8	1.5	0	.63	
12								0	3.8	1.5	0	.43	
13								0	3.3	1.4	0	.76	
14								0	3.9	1.3	0	.77	
15								0	5.7	1.2	0	.69	
16								0	3.7	1.2	0	.57	
17								0	3.1	1.2	0	.17	
18								0	3.1	1.2	0	0	
19								0	1.9	1.2	0	0	
20								0	0	1.1	0	0	
21								0	0	1.1	0	0	
22								0	0	1.1	0	0	
23							0	0	0	1.1	0		
24							0	0	0	1.1	0		
25							0	0	0	1.8	0		
26								0	0	0	0		
27								0	0	0	0		
28								0	0	1.6	0		
29					-----			0	0	2.0	0	.56	
30					-----			0	0	1.9	0	.87	
31		-----			-----		-----	0	-----	0	.88	-----	
TOTAL								0	0	61.19	36.8	2.31	14.60
MEAN								0	0	2.04	1.19	.075	.66
MAX								0	0	5.7	2.1	.88	1.2
MIN								0	0	0	0	0	0
AC-FT								0	0	121	73	4.6	29
CAL YEAR 1997	MAX	5.9	MIN	0	AC-FT	228							
WTR YEAR 1998	MAX	5.7	MIN	0	AC-FT	228							

NIOBRARA RIVER BASIN

MOORE - KAY CANAL from Niobrara River, 00104000 - 1998

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

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

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1								0	2.8	.86	0	0	
2								0	2.6	1.5	0	0	
3								0	2.6	1.7	0	0	
4								0	2.7	1.2	0	0	
5								0	2.3	1.5	0	0	
6								0	2.3	1.5	0	0	
7								0	2.4	1.5	0	0	
8								0	1.1	2.2	0	0	
9								0	0	1.9	0	0	
10								0	0	.59	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	1.2	0	.48	0	
16								0	3.0	0	.72	0	
17								0	3.9	0	.16	0	
18								0	4.2	0	0	0	
19								0	4.1	0	0	0	
20								0	4.4	0	0	0	
21								0	4.5	0	0	0	
22								0	4.9	0	0	0	
23								0	1.9	5.3	0	0	
24								0	2.5	2.3	0	0	
25								0	1.9	0	4.5	0	
26								0	1.3	0	8.6	0	
27								0	2.2	0	7.3	0	
28								0	2.7	0	1.2	0	
29					-----			0	2.9	0	1.5	0	
30					-----			0	3.4	0	.70	0	
31		-----			-----		-----	3.2	-----	0	0	-----	
TOTAL								0	22.0	56.6	38.25	1.36	0
MEAN								0	.71	1.89	1.23	.044	0
MAX								0	3.4	5.3	8.6	.72	0
MIN								0	0	0	0	0	0
AC-FT								0	44	112	76	2.7	0
CAL YEAR 1997	MAX	5.6	MIN	0	AC-FT	208							
WTR YEAR 1998	MAX	8.6	MIN	0	AC-FT	234							

NIOBRARA RIVER BASIN

GEO. HITSHEW CANAL from Niobrara river, 00063000 - 1998

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

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

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

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

No water diverted in 1998.

NIOBRARA RIVER BASIN

McLAUGHLIN CANAL from Niobrara River, 00086000 - 1998

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

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

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4							0	4.5	4.2	0	0
2	3.4							0	4.4	3.8	0	0
3	3.3							0	4.7	3.1	0	0
4	3.3							0	5.6	2.8	0	0
5	3.2							0	4.7	2.9	0	0
6	3.2							0	3.9	2.8	0	0
7	3.2							0	3.8	2.9	0	0
8	3.1							0	3.9	3.2	0	1.0
9	1.6							0	4.0	3.4	0	2.9
10	.95							0	3.5	2.9	0	2.9
11	.93							0	3.3	3.5	0	3.0
12	.17							0	3.5	3.5	0	3.1
13	0							0	3.5	3.1	0	3.2
14	0							0	3.6	.70	0	3.4
15								0	3.8	0	0	3.3
16								3.4	4.4	0	.90	3.3
17								6.7	4.3	0	6.7	3.3
18								6.6	3.7	0	6.5	3.3
19								6.5	3.1	0	5.4	3.3
20								7.2	3.0	0	3.9	3.4
21								4.5	2.9	0	1.4	3.7
22								3.0	2.8	0	1.3	3.8
23								3.2	2.1	0	.34	3.8
24								2.9	2.2	0	0	3.9
25								2.8	3.3	0	0	3.9
26								2.9	4.5	.22	0	3.8
27								2.9	4.4	1.5	0	3.7
28								2.9	4.4	1.5	0	3.7
29					-----			3.1	4.3	1.0	0	3.7
30					-----			3.4	4.2	0	0	3.6
31		-----			-----		0	4.0	-----	0	0	-----
TOTAL	29.75						0	66.0	114.8	47.02	26.44	77.0
MEAN	2.13						0	2.13	3.83	1.52	.85	2.57
MAX	3.4						0	7.2	5.6	4.2	6.7	3.9
MIN	0						0	0	2.1	0	0	0
AC-FT	59						0	131	228	93	52	153
CAL YEAR 1997	MAX	7.7	MIN	0	AC-FT	555						
WTR YEAR 1998	MAX	7.2	MIN	0	AC-FT	716						

NIOBRARA RIVER BASIN

EXCELSIOR CANAL from Niobrara River, 00046000 - 1998

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

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

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									1.1	1.4	1.0	0
2									.87	1.5	.77	0
3									.62	.83	.25	0
4									.68	.51	0	0
5									.79	.34	0	0
6									1.6	.34	0	0
7									1.2	.31	0	0
8									1.3	.28	0	0
9									1.8	0	0	0
10									3.5	0	0	0
11									3.8	0	0	
12									3.5	0	0	
13									3.1	0	0	
14									3.6	.39	0	
15									3.4	.67	0	
16									3.0	1.1	0	
17									3.0	1.3	0	
18									3.5	1.3	0	
19									3.5	1.1	0	
20								.70E	3.4	.58	0	
21								1.6	3.3	0	0	
22								2.2	3.3	0	0	
23								2.5	3.8	0	0	
24								1.8	3.7	0	0	
25								1.3	3.6	0	0	
26								1.6	3.3	1.0	0	
27								1.9	3.1	1.8	0	
28								1.7	2.6	2.0	0	
29					-----			1.3	2.4	1.7	0	
30					-----			1.2	1.9	1.2	0	
31		-----			-----		-----	1.5	-----	1.2	0	-----
TOTAL								19.30	78.26	20.85	2.02	0
MEAN								1.61	2.61	.67	.065	0
MAX								2.5	3.8	2.0	1.0	0
MIN								.70	.62	0	0	0
AC-FT								38	155	41	4.0	0
CAL YEAR 1997	MAX	6.3	MIN	0	AC-FT	230						
WTR YEAR 1998	MAX	3.8	MIN	0	AC-FT	239						

E indicates estimated discharge.

NIOBRARA RIVER BASIN

HUGHES CANAL from Niobrara River, 00069000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	0	.19	.37
2									0	0	.10	.34
3									0	0	0	.42
4									0	0	0	.47
5									0	0	0	.20
6									0	0	0	0
7									0	0	0	0
8									0	0	0	0
9									0	0	0	0
10									0	0	0	0
11									0	0	0	
12									0	0	0	
13									0	0	0	
14								0	0	0	0	
15								0	0	0	0	
16								0	0	0	0	
17								0	0	0	0	
18								0	.01	0	0	
19								0	.03	0	0	
20								0	0	0	0	
21								0	0	0	.02	
22								0	.01	0	0	
23								0	.17	0	0	
24								0	.25	0	.13	
25								0	.26	0	.56	
26								0	.21	0	.58	
27								0	.16	0	.58	
28								0	.08	.09	.57	
29					-----			0	.05	1.5 E	.54	
30					-----			0	0	.53	.50	
31		-----			-----		-----	0	-----	.40	.44	-----
TOTAL								0	1.23	2.52	4.21	1.80
MEAN								0	.041	.081	.14	.18
MAX								0	.26	1.5	.58	.47
MIN								0	0	0	0	0
AC-FT								0	2.4	5.0	8.4	3.6
CAL YEAR 1997	MAX	1.1	MIN	0	AC-FT	19						
WTR YEAR 1998	MAX	1.5	MIN	0	AC-FT	19						

E indicates estimated discharge

NIOBRARA RIVER BASIN

PIONEER CANAL from Niobrara River, 00123000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	0	0	0
2								.60	0	0	0	0
3								2.4	0	0	0	0
4								2.5	0	0	0	0
5								2.5	0	0	0	0
6								2.5	0	0	0	0
7								2.5 E	0	0	0	0
8								2.5 E	0	0	0	0
9								2.5 E	0	0	0	0
10								2.5 E	0	0	0	0
11								2.5 E	0	0	0	0
12								2.5 E	0	0	0	0
13								2.5 E	0	0	0	0
14								2.5	0	0	0	0
15								2.5	0	0	0	0
16								2.4	0	0	0	0
17								2.2	0	0	0	0
18								2.1	0	0	0	0
19								2.0	0	0	0	0
20								2.0	0	0	0	0
21								2.0	0	0	0	0
22							0	2.0	0	0	0	0
23							0	2.0	0	0	0	0
24							0	1.9	0	0	0	0
25							0	1.9	0	0	0	0
26							0	1.8		0	0	0
27							0	1.7		0	0	0
28							0	1.7		0	0	0
29					-----		0	.57		0	0	0
30					-----		0	0		0	0	0
31		-----			-----		-----	0	-----	0	0	-----
TOTAL							0	59.27	0	0	0	0
MEAN							0	1.91	0	0	0	0
MAX							0	2.5	0	0	0	0
MIN							0	0	0	0	0	0
AC-FT							0	118	0	0	0	0
CAL YEAR 1997	MAX	6.0	MIN	0	AC-FT	278						
WTR YEAR 1998	MAX	2.5	MIN	0	AC-FT	118						

E indicates estimated Discharge.

NIOBRARA RIVER BASIN

NIOBRARA RIVER above Box Butte Reservoir, 06454500 - 1998

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. Records are 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 56 cubic feet per second March 30, gage height 3.68 feet; maximum gage height 5.25 feet March 1 due to backwater from ice; minimum daily discharge 3.5 cubic feet per second January 14.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	28	27	24	30	32E	51	28	12	12	38	19E
2	20	47	28	26	28	32E	50	26	12	12	36	19E
3	18	43	27	25 E	29	34E	48	19	12	12	31	19E
4	17	42	24	27 E	29	36E	48	23	12	12	29	18E
5	17	34	22	28	29	38	45	24	12	11	27	18E
6	16	33	22E	25	29	31	43	23	12	9.9	26	18E
7	17	32	25	24 E	30	31	42	23	12	10	25	17E
8	18	32	24	25 E	31	30E	41	21	12	11	24	17E
9	17	33	26	24 E	32	30E	41	21	13	13	26	17E
10	17	33	27	24 E	33	29E	40	22	12	12	25	16E
11	19	31	26E	14	33	29	39	25	13	11	26	16E
12	19	29	24E	12	35	32	37	25	14	11	24	15E
13	19	30	23	8.4	35	33	36	27	13	10	23	15E
14	20	28E	23	3.5	37	38	37	26	14	9.6	22	14E
15	19	29E	25	6.0	37	42	40	24	13	9.3	22	14E
16	15	30E	27	32	39	44	39	21	13	9.2	23	14E
17	14	29	27	32	39	47	40	18	13	9.6	26	14E
18	16	29	27	32	40	43	39	15	14	9.5	28	14E
19	16	30	28	32	41	42	39	14	16	9.4	29	14E
20	16	32	28E	32	41	43	38	13	17	9.4	26	14E
21	16	30	25	32	42	44	38	14	15	10	26	14E
22	17	31	23	33	42	42	36	13	15	11	32	14E
23	17	31	22	34	41	41	32	14	18	14	28	14E
24	21	30	25	33	41	41	32	12	18	21	26	14E
25	20E	30	25	33	37E	42	31	12	17	18	24	14E
26	18E	30	23	33	30E	42	29	11	16	20	24	14E
27	20E	31	23	31	31E	43	28	11	14	27	24	14E
28	20E	30	23	30	31E	43	28	11	14	33	24	14E
29	20E	30	25	29	-----	50	28	14	14	39	23	14E
30	22E	29	24	30	-----	52	28	14	14	45	23	14E
31	23	-----	22	32	-----	53	-----	13	-----	43	22	-----
TOTAL	568	956	770	805.9	972	1,209	1,143	577	416	493.9	812	462
MEAN	18.3	31.9	24.8	26.0	34.7	39.0	38.1	18.6	13.9	15.9	26.2	15.4
MAX	24	47	28	34	42	53	51	28	18	45	38	19
MIN	14	28	22	3.5	28	29	28	11	12	9.2	22	14
AC-FT	1,130	1,900	1,530	1,600	1,930	2,400	2,270	1,140	825	980	1,610	916
CAL YEAR 1997 TOTAL	9,204.8		MEAN	25.2	MAX	50	MIN	9.1	AC-FT	18,260		
WTR YEAR 1998 TOTAL	9,184.8		MEAN	25.2	MAX	53	MIN	3.5	AC-FT	18,220		

E indicates estimated discharge.

NIOBRARA RIVER BASIN

BOX BUTTE RESERVOIR from Niobrara River, 06455000 - 1998

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

GAGE.--Reference point

PERIOD OF RECORD.--1946 - present

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,890		12,700				18,960	20,473	20,754			9,365
2					15,362	16,772				19,058		
3		11,200										
4												
5												
6											13,048	
7												
8												
9										17,882		
10												9,390
11									20,703			
12												
13											12,081	
14								20,729				
15												
16							19,890			15,872		
17												10,174
18					16,246							
19									20,767			
20											10,731	
21								20,858				
22												
23										13,737		
24						18,249						
25									20,806			
26												
27												
28												
29			13,900		-----							
30					-----					13,666		
31		-----			-----		-----		-----			-----

NIOBRARA RIVER BASIN

NIOBRARA RIVER below Box Butte Reservoir, 06455500 - 1998

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. Records good, except estimated records are poor and 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 166 cubic feet per second July 7, gage height 4.27 feet; minimum daily discharge 0.86 cubic feet per second on October 2.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.88	1.1	1.1	1.2	1.1	1.2	1.1	1.1	1.3 E	.99	56	86
2	.86	1.0	1.1	1.2	1.1	1.2	1.1	1.1	1.3 E	75	48	84
3	.87	1.0	1.1	1.2	1.1	1.2	1.1	1.1	1.3 E	77	52	77
4	.87	1.1	1.1	1.2	1.1	1.2	1.1	1.1	1.3 E	75	64	45
5	.88	1.1	1.1	1.2	1.1	1.2	1.1	1.1	1.3 E	79	68	1.1
6	.88	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.3 E	108	88	1.0
7	.90	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.3 E	150	91	1.0
8	.95	1.1	1.2	1.1	1.1	1.2	1.1	1.2	1.3 E	152	88	.99
9	1.9	1.1	1.2	1.1	1.1	1.2	1.1	1.2	1.3 E	123	98	.97
10	.94	1.1	1.2	1.1	1.1	1.2	1.1	1.2	1.3 E	95	98	.96
11	.94	1.1	1.2	1.2	1.1	1.1	1.1	1.2	1.3 E	83	81	.95
12	.96	1.1	1.2	1.1	1.1	1.1	1.1	1.3	1.3 E	88	76	.96
13	.99	1.0	1.2	1.2	1.1	1.2	1.0	1.2	1.3 E	109	78	1.0
14	1.1	1.0	1.2	1.1	1.1	1.2	1.2	1.2	1.3 E	134	79	.97
15	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.3 E	148	75	.95
16	1.0	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.3 E	148	78	.95
17	.98	1.0	1.1	1.1	1.2	1.1	1.2	1.3	1.3 E	144	82	.95
18	.97	1.1	1.1	1.2	1.2	1.1	1.2	1.3	1.3 E	150	83	.95
19	.95	1.1	1.1	1.1	1.2	1.1	1.1	1.3	1.3 E	152	93	.95
20	.95	1.1	1.1	1.1	1.2	1.1	1.1	1.3	1.3	150	100	.95
21	.97	1.1	1.1	1.1	1.2	1.1	1.1	1.7	1.2	141	90	1.0
22	.98	1.1	1.1	1.1	1.2	1.1	1.1	1.5	1.2	143	83	1.1
23	.98	1.1	1.1	1.1	1.2	1.1	1.1	1.5	1.3	137	80	1.0
24	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.4	1.2	110	81	1.0
25	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.4	1.1	91	87	.97
26	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.4	1.1	84	89	.95
27	1.1	1.1	1.1	1.1	1.1E	1.0	1.1	1.4	1.1	83	90	.95
28	1.1	1.1	1.1	1.1	1.2E	1.1	1.1	1.4	1.1	93	81	.95
29	1.1	1.1	1.1	1.1	-----	1.2	1.1	1.4	1.0	83	73	.97
30	1.1	1.1	1.2	1.1	-----	1.1	1.1	1.5	.99	58	73	.87
31	1.1	-----	1.2	1.1	-----	1.1	-----	1.5	-----	54	79	-----
TOTAL	31.50	32.3	35.0	34.9	32.0	35.5	33.4	39.9	37.29	3,317.99	2,482	317.36
MEAN	1.02	1.08	1.13	1.13	1.14	1.15	1.11	1.29	1.24	107	80.1	10.6
MAX	1.9	1.1	1.2	1.2	1.2	1.2	1.2	1.7	1.3	152	100	86
MIN	.86	1.0	1.1	1.1	1.1	1.0	1.0	1.1	.99	.99	48	.87
AC-FT	62	64	69	69	63	70	66	79	74	6,580	4,920	629
CAL YEAR 1997 TOTAL	6,242.71		MEAN	17.1	MAX	159	MIN	.85	AC-FT	12,380		
WTR YEAR 1998 TOTAL	6,429.14		MEAN	17.6	MAX	152	MIN	.86	AC-FT	12,750		

E indicates estimated discharge.

NIOBRARA RIVER BASIN

MONTAGUE CANAL from Niobrara River, 00102000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

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

No water diverted in 1998.												

NIOBRARA RIVER BASIN

LICHTE CANAL from Niobrara River, 00081000 - 1998

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

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

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	0	0	1.4
2									0	0	0	.90
3									0	0	0	2.8
4									0	0	0	2.9
5									0	0	0	2.4
6									0	0	0	0
7									0	0	0	0
8									0	0	0	0
9									0	0	0	.67
10								1.6E	0	0	0	2.4
11								3.2E	0	0	0	.63
12								3.2E	0	0	0	.09
13								3.2E	0	0	0	0
14								3.2	0	0	0	0
15								3.2	0	0	0	0
16								3.2	0	0	0	0
17								3.2	0	0	0	0
18								2.6	0	0	0	0
19								3.2	0	0	0	0
20								1.0	0	0	0	0
21								0	0	0	0	0
22								0	0	0	0	0
23								0	0	0	0	0
24								0	0	0	0	0
25								0	0	0	0	0
26								0	0	0	0	0
27								0	0	0	0	0
28								0	0	1.8	0	0
29					-----			0	0	3.4	0	0
30					-----			0	0	3.4	0	0
31		-----			-----		-----	0	-----	1.5	0	-----
TOTAL								30.8	0	10.1	0	14.19
MEAN								1.40	0	.33	0	.83
MAX								3.2	0	3.4	0	2.9
MIN								0	0	0	0	0
AC-FT								61	0	20	0	28
CAL YEAR 1997	MAX	3.4	MIN	0	AC-FT	134						
WTR YEAR 1998	MAX	3.4	MIN	0	AC-FT	109						

E indicates estimated discharge.

NIOBRARA RIVER BASIN

MIRAGE FLATS CANAL from Niobrara River, 00100000 - 1998

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

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

PERIOD OF RECORD.--1948 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	0	59	86
2								0	0	47	64	88
3								0	0	75	57	78
4								0	0	74	74	67
5								0	0	80	65	0
6								0	0	89	103	0
7								0	0	149	103	0
8								0	0	165	102	0
9								0	0	142	99	0
10								0	0	120	114	0
11								0	0	95	98	0
12								0	0	106	83	0
13								0	0	118	85	0
14								0	0	146	91	0
15								0	0	157	86	0
16								0	0	158	83	0
17								0	0	145	87	0
18								0	0	155	88	0
19								0	0	147	93	0
20								0	0	154	108	0
21								0	0	143	108	0
22								0	0	145	94	0
23								0	0	138	93	0
24								0	0	131	88	0
25								0	0	105	96	0
26								0	0	98	96	0
27								0	0	90	95	0
28								0	0	93	92	0
29					-----			0	0	87	75	0
30					-----			0	0	58	74	0
31		-----			-----		-----	0	-----	55	76	-----
TOTAL								0	0	3,465	2,729	319
MEAN								0	0	112	88.0	10.6
MAX								0	0	165	114	88
MIN								0	0	0	57	0
AC-FT								0	0	6,870	5,410	633
CAL YEAR 1997	MAX	145	MIN	0	AC-FT	12,350						
WTR YEAR 1998	MAX	165	MIN	0	AC-FT	12,920						

NIOBRARA RIVER BASIN

POTMESIL CANAL from Niobrara River, 00124000 - 1998

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

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

PERIOD OF RECORD.--1956 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1								5.4	4.8	4.7	3.5	3.7	
2								5.1	4.9	3.5	0	4.1	
3								5.0	1.7	.77	.66	2.3	
4								5.1	0	0	4.8	2.2	
5								5.1	0	0	3.5	5.7	
6								5.1	0	0	4.3	5.9	
7								4.6	0	1.2	4.2	5.9	
8								0	0	4.3	3.2	6.0	
9								0	0	3.2	3.0	6.0	
10								0	0	2.1	4.4	2.0	
11								0	0	1.7	3.8	0	
12								0	0	2.4	4.0	0	
13								0	0	2.9	4.1	0	
14								1.4	0	3.4	1.3	2.1	
15								4.9	0	3.5	0	4.9	
16								3.9	0	3.4	0	4.9	
17								3.6	0	3.2	0	4.9	
18								2.2	0	3.4	.89	4.9	
19								0	0	3.3	3.3	3.4	
20								0	0	3.3	4.4	2.1	
21								0	0	3.0	1.9	0	
22								0	3.5	2.8	0	0	
23								0	5.3	2.5	0	0	
24								0	4.9	0	0	0	
25								0	4.5	0	.54		
26								0	1.2	0	3.7		
27								0	1.3	1.6	4.1		
28								.89	4.6	3.7	3.5		
29					-----			4.4	4.7	3.7	1.8		
30					-----			.82	4.7	4.7	2.8		
31		-----			-----			4.7	-----	4.5	2.1	-----	
TOTAL								0.82	66.09	46.1	74.87	73.29	71.0
MEAN								.82	2.13	1.54	2.42	2.36	2.96
MAX								.82	5.4	5.3	4.7	4.8	6.0
MIN								.82	0	0	0	0	0
AC-FT								1.6	131	91	149	145	141
CAL YEAR 1997	MAX	7.3	MIN	0	AC-FT	768							
WTR YEAR 1998	MAX	6.0	MIN	0	AC-FT	659							

NIOBRARA RIVER BASIN

SNAKE RIVER at Doughboy, 06459175 - 1998

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

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

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

PERIOD OF RECORD.--1981 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 230 cubic feet per second September 13, gage height 2.31 feet; maximum gage height 2.60 feet January 13 due to backwater from ice, minimum daily discharge 140 cubic feet per second estimated November 15, January 10, 12-13.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	183	177	157	171	161	180	166	156	154	197	155
2	165	182	178	160	173	164	185	161	154	166	189	155
3	167	176	169	158	172	168	183	162	154	178	177	155
4	164	178	174	152	169	172	179	162	157	172	174	156
5	163	182	160E	156	166	170	175	162	158	166	168	152
6	165	180	156E	153	165	168	174	164	159	162	169	150
7	167	176	150E	152	165	172	171	162	162	161	164	151
8	168	177	171	151	166	170	165	173	161	166	161	153
9	169	175	172	145E	177	173	164	182	163	172	160	153
10	170	165	170	140E	179	173	170	177	162	182	158	153
11	176	170	165	145E	180	164	174	182	162	204	164	155
12	200	164	163	140E	179	166	173	180	161	193	193	155
13	182	167	167	140E	174	179	168	183	161	178	189	168
14	174	150E	170	150E	175	184	173	178	198	166	185	166
15	179	140E	169	153	178	188	181	174	184	162	178	162
16	177	150E	170	160	178	202	173	167	182	163	164	162
17	176	168	169	161	178	207	177	165	192	166	155	160
18	178	172	168	161	180	201	174	165	175	162	150	159
19	176	174	170	163	179	192	171	161	176	159	149	157
20	174	176	165	162	177	187	169	166	177	159	149	156
21	174	179	165	158	178	190	168	176	169	160	149	163
22	171	173	166	159	177	189	169	179	164	162	149	165
23	177	177	162	161	176	185	173	184	189	169	150	163
24	179	173	161	158	175	182	174	181	181	182	150	162
25	173	175	159	160	178	182	170	177	188	179	150	164
26	163	178	157	162	175	183	164	175	189	176	151	165
27	170	178	157	165	169	184	162	170	186	174	152	165
28	185	179	159	168	159	181	164	166	170	167	152	164
29	186	184	155	166	-----	193	164	162	159	164	153	161
30	186	178	159	170	-----	194	166	161	154	180	154	163
31	189	-----	157	174	-----	189	-----	158	-----	192	153	-----
TOTAL	5,405	5,179	5,110	4,860	4,868	5,613	5,153	5,281	5,103	5,296	5,056	4,768
MEAN	174	173	165	157	174	181	172	170	170	171	163	159
MAX	200	184	178	174	180	207	185	184	198	204	197	168
MIN	162	140	150	140	159	161	162	158	154	154	149	150
AC-FT	10,720	10,270	10,140	9,640	9,660	11,130	10,220	10,470	10,120	10,500	10,030	9,460

CAL YEAR 1997 TOTAL 62,963 MEAN 173 MAX 230 MIN 120 AC-FT 124,900
 WTR YEAR 1998 TOTAL 61,692 MEAN 169 MAX 207 MIN 140 AC-FT 122,400

E indicates estimated discharge.

NIOBRARA RIVER BASIN

MERRITT RESERVOIR from Snake River, 06459300 - 1998

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

GAGE.--Reference point

PERIOD OF RECORD.--1965 - present

REMARKS.--Values furnished by Ainsworth Irrigation District

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

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59,410	69,110	68,830	68,830	69,110	68,560	68,830	74,200	74,490	74,490	58,920	49,500
2	59,910	69,110	68,830	68,830	69,110	68,560	68,560	74,200	74,490	74,490	58,160	48,870
3	60,410	69,110	68,830	68,830	69,110	68,560	68,560	74,200	74,490	74,490	58,160	48,040
4	60,910	69,110	68,830	68,830	69,110	68,560	68,290	74,200	74,200	74,490	59,410	47,620
5	61,170	69,110	68,830	68,830	69,110	68,560	68,290	74,200	74,200	74,490	59,660	47,210
6	61,680	68,830	68,830	68,830	69,110	68,560	68,830	74,200	74,490	74,490	60,160	47,210
7	62,190	68,830	68,830	68,830	69,110	68,560	68,830	74,200	74,490	74,490	60,410	47,010
8	62,710	69,110	68,830	68,560	69,110	68,560	68,560	74,200	74,490	74,490	60,410	46,810
9	63,220	69,110	68,830	68,560	69,110	68,330	68,560	74,490	74,490	74,200	60,410	46,610
10	63,480	69,110	68,830	68,560	68,830	68,330	68,560	74,780	74,490	73,910	60,160	46,410
11	64,000	69,110	68,830	68,560	68,830	68,330	69,110	75,080	74,490	73,340	59,660	46,210
12	64,800	69,110	68,830	68,560	68,830	68,330	69,670	74,780	74,490	73,050	59,160	46,210
13	65,590	69,110	68,830	68,560	68,830	68,330	70,230	74,780	74,490	72,480	59,410	46,010
14	66,120	68,830	68,830	68,560	68,830	68,330	70,230	74,780	74,780	71,910	59,410	46,010
15	66,930	68,830	68,830	68,560	68,830	68,330	71,340	74,490	74,780	71,340	59,410	46,210
16	67,470	68,830	68,830	68,830	68,830	68,330	71,910	74,490	74,780	70,230	59,410	46,410
17	68,020	68,830	68,830	68,830	68,830	68,330	72,480	74,490	74,780	69,390	59,410	46,410
18	68,560	68,830	68,830	68,830	68,830	68,330	74,490	74,490	74,780	68,290	59,160	46,610
19	68,830	68,830	68,830	68,830	69,110	68,330	74,490	74,490	74,780	67,470	58,420	46,810
20	69,110	68,830	68,830	68,830	69,110	68,330	74,490	74,490	74,780	66,390	57,690	47,010
21	69,390	68,830	68,830	68,830	69,110	68,330	74,490	74,490	74,490	65,590	56,730	47,420
22	69,390	68,830	69,110	68,830	69,110	68,330	74,490	74,490	74,490	64,530	56,000	48,040
23	69,670	68,830	69,390	68,830	69,110	69,110	74,490	74,490	74,490	63,480	55,310	48,660
24	69,670	69,110	69,390	68,830	69,110	69,110	74,490	74,780	74,490	63,220	54,610	49,280
25	69,670	69,110	69,110	68,830	69,110	69,110	74,490	74,780	74,490	62,710	53,910	49,710
26	69,670	69,110	69,110	69,110	68,830	69,110	74,490	74,780	74,490	62,190	53,010	50,140
27	69,670	68,830	69,110	69,110	68,830	69,110	74,490	74,780	74,490	61,680	52,330	50,580
28	69,390	68,830	69,110	69,110	68,830	68,830	74,490	74,780	74,490	61,170	51,660	51,010
29	69,390	68,830	68,830	69,110	-----	68,830	74,490	74,490	74,490	60,160	51,010	51,440
30	68,830	68,830	68,830	69,110	-----	68,830	74,200	74,490	74,490	59,410	50,580	51,880
31	69,110	-----	68,830	69,110	-----	68,830	-----	74,490	-----	59,160	49,930	-----
MAX	69,670	69,110	69,390	69,110	69,110	69,110	74,490	75,080	74,780	74,490	60,410	51,880
MIN	59,410	68,830	68,830	68,560	68,830	68,330	68,290	74,200	74,200	59,160	49,930	46,010
CHANGE	10,190	-280	0	280	-280	0	5,370	290	C	-15,330	-9,230	1,950
CAL YEAR 1997			MEAN	68,081	MAX	76,250	MIN	52,110				
WTR YEAR 1998			MEAN	67,069	MAX	75,080	MIN	46,010				

NIOBRARA RIVER BASIN

AINSWORTH CANAL from Merritt Reservoir, 00001000 - 1998

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

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

PERIOD OF RECORD.--1965 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	69	103	227	501
2								0	67	120	206	504
3								16	67	127	83	495
4								130	68	128	83	405
5								102	68	153	83	240
6								102	68	172	119	244
7								102	68	184	187	263
8								95	68	248	248	284
9								77	68	321	290	269
10								76	67	389	413	236
11								71	67	411	469	208
12								68	67	420	205	208
13								67	67	467	212	204
14								67	67	539	184	172
15								67	67	580	206	88
16								67	64	617	232	75
17								68	57	622	323	75
18								68	57	623	464	61
19								67	57	634	576	0
20								67	57	634	586	0
21								62	57	634	546	0
22								57	68	634	490	0
23								57	71	625	497	0
24								56	66	522	526	0
25								56	66	400	544	0
26								56	66	406	551	0
27								56	66	505	552	0
28								63	72	579	466	0
29					-----			67	77	589	405	0
30					-----			67	86	552	426	0
31		-----			-----		-----	67	-----	317	484	-----
TOTAL								2,041	2,000	13,255	10,883	4,532
MEAN								65.8	66.7	428	351	151
MAX								130	86	634	586	504
MIN								0	57	103	83	0
AC-FT								4,050	3,970	26,290	21,590	8,990
CAL YEAR 1997	MAX	619	MIN	0	AC-FT	60,080						
WTR YEAR 1998	MAX	634	MIN	0	AC-FT	64,880						

NIOBRARA RIVER BASIN

Snake River near Burge, 06459500 - 1998

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

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

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

PERIOD OF RECORD.--June 1947 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 321 cubic feet per second November 29, gage height 2.10 feet; minimum daily discharge 14 cubic feet per second October 11.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	254	321	303	307	303	298	245	115	106	64	63
2	15	256	321	299	307	274	302	226	170	112	65	62
3	15	252	306	298	307	247	276	226	170	115	65	62
4	15	253	283	298	307	248	231	162	136	116	67	62
5	15	256	285	297	307	248	206	106	116	120	64	63
6	15	254	289	294	307	248	187	105	119	116	66	73
7	15	252	289	294	307	247	167	109	123	102	65	83
8	15	252	249	236	303	248	167	112	162	74	65	83
9	15	250	215	202	303	248	165	117	216	66	65	83
10	15	248	219	204	300	248	132	129	235	65	64	83
11	14	248	217	205	283	247	107	204	223	65	64	83
12	19	268	215	205	248	243	107	254	219	65	65	83
13	15	312	215	205	248	241	108	255	222	65	65	82
14	15	312	215	205	252	241	110	245	237	62	65	81
15	15	312	214	203	252	241	110	238	237	60	65	81
16	15	312	215	203	227	244	110	233	237	60	65	81
17	15	287	215	205	212	244	114	226	267	60	64	81
18	15	248	215	208	248	244	131	225	285	59	63	82
19	15	248	215	207	248	244	237	192	281	59	63	82
20	15	248	213	219	275	244	266	176	275	59	63	81
21	67	254	212	252	303	244	287	181	270	60	63	83
22	207	256	261	246	303	244	284	186	270	60	63	83
23	256	256	309	134	301	261	288	191	277	63	63	84
24	256	270	313	159	298	298	297	228	272	62	63	85
25	256	313	316	158	298	298	276	244	268	62	63	84
26	256	317	312	198	304	301	276	240	266	62	63	83
27	254	317	308	279	307	303	276	237	264	62	63	83
28	253	317	307	303	306	303	276	228	243	62	63	82
29	270	319	305	303	-----	298	276	223	217	62	63	70
30	297	321	303	303	-----	298	276	222	168	62	63	70
31	252	-----	303	307	-----	298	-----	218	-----	62	63	-----
TOTAL	2,927	8,262	8,175	7,432	7,968	8,138	6,343	6,183	6,561	2,285	1,985	2,341
MEAN	94.4	275	264	240	285	263	211	199	219	73.7	64.0	78.0
MAX	297	321	321	307	307	303	302	255	285	120	67	85
MIN	14	248	212	134	212	241	107	105	116	59	63	62
AC-FT	5,810	16,390	16,220	14,740	15,800	16,140	12,580	12,260	13,010	4,530	3,940	4,640

CAL YEAR 1997	TOTAL	68,905	MEAN	189	MAX	321	MIN	14	AC-FT	136,700
WTR YEAR 1998	TOTAL	68,600	MEAN	188	MAX	321	MIN	14	AC-FT	136,100

NIOBRARA RIVER BASIN

KEYA PAHA RIVER near Naper, 06464900 - 1998

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

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

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

PERIOD OF RECORD.--1957 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 2,490 cubic feet per second June 25, gage height 8.16 feet; minimum daily discharge 87 cubic feet per second September 11.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	332	217	160E	170E	169	533	221	139	484	1,070	142
2	100	306	209	150E	180E	160E	772	216	121	391	1,400	122
3	99	270	200	160E	190E	160E	817	200	115	351	1,850	115
4	101	256	206	160E	180E	150E	621	181	110	338	1,180	113
5	97	252	171	150E	183E	160E	516	175	106	524	843	106
6	97	227	170E	160E	190E	150E	457	162	102	450	634	100
7	98	226	180E	150E	200E	140E	426	159	109	642	601	97
8	99	232	190E	144E	200E	150E	335	163	194	502	690	100
9	110	242	180E	140E	220E	140E	312	161	466	388	591	95
10	117	241	170E	140E	240E	130E	359	196	529	311	481	90
11	123	236	160E	140E	260E	140E	335	290	541	265	400	87
12	171	240	180E	130E	270E	160E	320	337	476	235	413	89
13	306	238	170E	140E	280E	180E	313	398	424	215	452	92
14	485	253	180E	150E	280E	180E	332	334	507	191	333	107
15	494	190E	190E	160E	290E	170E	675	285	732	176	263	109
16	494	150E	190E	150E	310E	190E	525	364	630	163	235	112
17	419	120E	200E	150E	338	250E	412	339	519	151	215	105
18	349	140E	210E	160E	272	320E	528	270	715	141	193	102
19	313	130E	190E	150E	262	400E	490	198	813	135	184	98
20	285	150E	170E	160E	256	500E	387	178	661	132	357	95
21	260	160E	180E	170E	257	520	359	164	490	129	253	94
22	241	172	190E	160E	314	509	353	188	459	123	194	107
23	236	201	180E	150E	320	516	330	262	610	115	171	109
24	231	227	170E	160E	304	576	288	368	553	111	158	105
25	245	233	170E	170E	300	627	286	361	2,110	117	143	105
26	254	245	180E	160E	291	632	307	331	1,650	124	130	109
27	245	253	170E	170E	258	609	279	323	946	121	125	113
28	250	255	160E	190E	236	510	273	273	627	113	127	108
29	276	242	170E	180E	-----	497	256	212	518	396	124	100
30	292	220	160E	190E	-----	458	235	174	625	981	121	98
31	321	-----	170E	180E	-----	504	-----	155	-----	897	139	-----
TOTAL	7,310	6,639	5,633	4,884	7,051	9,957	12,431	7,638	16,597	9,412	14,070	3,124
MEAN	236	221	182	158	252	321	414	246	553	304	454	104
MAX	494	332	217	190	338	632	817	398	2,110	981	1,850	142
MIN	97	120	160	130	170	130	235	155	102	111	121	87
AC-FT	14,500	13,170	11,170	9,690	13,990	19,750	24,660	15,150	32,920	18,670	27,910	6,200
CAL YEAR 1997 TOTAL		120,527	MEAN	330	MAX	2,500	MIN	93	AC-FT	239,100		
WTR YEAR 1998 TOTAL		104,746	MEAN	287	MAX	2,110	MIN	87	AC-FT	207,800		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

FORT LARAMIE CANAL from North Platte River, 00052000 - 1998

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

GAGE.--Continuous stage recorder and parshall flume

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

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								652	967	1,500	1,500	1,430
2								702	907	1,510	1,480	1,400
3								736	902	1,510	1,450	1,400
4								755	902	1,510	1,430	1,410
5								755	907	1,510	1,410	1,420
6								757	902	1,500	1,420	1,440
7								757	887	1,500	1,460	1,430
8								755	854	1,500	1,480	1,380
9								752	823	1,510	1,500	1,330
10								755	779	1,510	1,500	1,310
11								757	779	1,510	1,460	1,280
12								784	781	1,500	1,500	1,260
13								811	779	1,500	1,500	1,250
14								849	779	1,510	1,500	1,230
15								882	779	1,510	1,500	1,210
16								882	779	1,510	1,510	1,200
17								884	777	1,510	1,500	1,120
18								923	777	1,500	1,500	1,080
19								1,010	779	1,500	1,500	1,080
20								1,050	781	1,500	1,510	1,030
21								1,060	779	1,500	1,510	952
22								1,040	804	1,500	1,500	954
23								1,010	864	1,500	1,500	779
24								1,020	920	1,500	1,480	487
25								1,030	954	1,500	1,440	41
26								1,020	1,050	1,510	1,430	0
27								986	1,180	1,500	1,440	0
28								978	1,260	1,510	1,460	0
29					-----			978	1,320	1,510	1,460	0
30					-----			978	1,450	1,510	1,460	0
31		-----			-----		-----	981	-----	1,510	1,450	-----
TOTAL								27,289	27,201	46,660	45,740	28,903
MEAN								880	907	1,505	1,475	963
MAX								1,060	1,450	1,510	1,510	1,440
MIN								652	777	1,500	1,410	0
AC-FT								54,130	53,950	92,550	90,730	57,330
CAL YEAR 1997	MAX	1,510	MIN	0	AC-FT	293,900						
WTR YEAR 1998	MAX	1,510	MIN	0	AC-FT	348,700						

NORTH PLATTE RIVER BASIN

FORT LARAMIE CANAL from North Platte River @ Mile Post 85.3, 00052200 - 1998

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

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

PERIOD OF RECORD.--1981 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	461	579	599	612
2								0	461	605	601	603
3								0	443	603	605	579
4								243	416	601	592	579
5								410	406	592	577	583
6								364	400	585	566	574
7								364	408	590	577	577
8								366	412	592	590	581
9								364	406	588	592	577
10								364	406	512	596	540
11								370	366	579	596	512
12								361	350	583	588	514
13								357	352	585	590	512
14								376	353	590	601	512
15								406	350	588	605	502
16								398	353	588	601	477
17								410	355	590	608	473
18								410	352	596	605	469
19								416	352	596	594	463
20								451	353	592	592	455
21								461	357	594	592	429
22								463	353	596	596	402
23								459	353	608	592	404
24								453	381	608	594	389
25								459	383	617	590	288
26								449	416	617	588	200
27								459	414	610	590	84
28								455	465	605	592	51
29					-----			457	489	601	596	51
30					-----			465	533	603	601	50
31		-----			-----		-----	455	-----	601	608	-----
TOTAL								11,465	11,899	18,394	18,414	13,042
MEAN								370	397	593	594	435
MAX								465	533	617	608	612
MIN								0	350	512	566	50
AC-FT								22,740	23,600	36,480	36,520	25,870
CAL YEAR 1997	MAX	628	MIN	0	AC-FT	120,500						
WTF YEAR 1998	MAX	617	MIN	0	AC-FT	145,200						

NORTH PLATTE RIVER BASIN

INTERSTATE CANAL from North Platte River, 00071000 - 1998

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

GAGE.--Continuous stage recorder and concrete siphon

PERIOD OF RECORD.--1915 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								1,060	0	1,890	1,950	1,940
2								1,060	0	1,930	1,950	1,950
3								1,080	0	1,930	1,940	1,950
4								1,110	0	1,930	1,940	1,930
5								1,120	0	1,970	1,940	1,890
6								1,270	0	1,980	1,940	1,880
7								1,330	0	1,980	1,940	1,880
8								1,320	0	2,020	1,940	1,840
9								1,330	0	2,010	1,930	1,820
10								1,330	0	2,000	1,930	1,780
11								1,380	0	2,000	1,930	1,770
12								1,390	0	1,990	1,950	1,730
13								1,370	0	1,970	1,970	1,730
14								1,290	0	1,930	1,970	1,680
15								1,270	0	1,920	1,970	1,630
16								1,280	89	1,930	1,980	1,580
17								1,280	625	1,930	1,970	1,540
18								1,280	892	1,930	1,980	1,530
19								1,270	906	1,930	2,020	1,470
20								1,050	964	1,940	2,020	1,420
21								500	1,130	1,940	2,020	1,360
22								0	1,300	1,940	2,020	1,280
23								0	1,120	1,940	2,020	1,240
24								0	1,120	1,950	2,010	1,240
25								0	1,210	1,950	2,020	1,230
26								0	1,330	1,960	2,020	1,240
27								0	1,440	1,960	2,020	1,220
28								0	1,590	1,960	2,010	923
29					-----			0	1,690	1,960	1,960	909
30					-----			0	1,790	1,950	1,950	928
31		-----			-----		-----	0	-----	1,950	1,950	-----
TOTAL								25,360	17,196	60,570	61,160	46,510
MEAN								818	573	1,954	1,973	1,550
MAX								1,380	1,790	2,020	2,020	1,950
MIN								0	0	1,890	1,930	909
AC-FT								50,300	34,110	120,100	121,300	92,250
CAL YEAR 1997	MAX	2,070	MIN	0	AC-FT	422,400						
WTR YEAR 1998	MAX	2,020	MIN	0	AC-FT	418,100						

NORTH PLATTE RIVER BASIN

LAKE ALICE RESERVOIR from North Platte, 00400300 - 1998

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

GAGE.--Reference point

PERIOD OF RECORD.--1977 - present

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

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

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,145	1,225	967	505	292	186	100	6,724	4,704	7,178	3,408	1,206
2	3,522	1,209	939	499	288	183	97.0	6,923	3,936	7,231	3,349	1,252
3	2,804	1,198	937	494	284	180	95.0	7,104	3,598	7,251	3,243	1,291
4	2,119	1,190	935	489	280	183	93.0	7,184	3,403	7,245	3,133	1,350
5	1,510	1,179	935	484	275	180	93.0	7,278	3,365	7,110	3,044	1,425
6	1,156	1,175	914	479	271	176	88.0	7,326	3,344	6,977	2,972	1,510
7	1,175	1,156	907	256	267	170	86.0	7,373	3,338	6,784	2,890	1,618
8	1,190	1,160	890	469	263	170	84.0	7,488	3,344	6,585	2,779	1,723
9	1,190	1,152	886	464	260	167	81.0	7,644	3,344	6,401	2,621	1,830
10	1,202	1,156	876	459	256	164	79.0	7,815	3,328	6,147	2,384	1,913
11	1,217	1,149	876	454	252	161	77.0	7,993	3,301	5,888	2,248	1,958
12	1,225	1,133	865	449	249	156	75.0	8,201	3,269	5,704	2,110	2,038
13	1,225	1,145	848	444	243	154	73.0	8,500	3,274	5,622	1,958	2,156
14	1,213	1,118	842	439	240	151	73.0	8,836	3,237	5,540	1,766	2,206
15	1,209	1,103	835	434	236	148	70.0	8,857	3,211	5,347	1,609	2,257
16	1,206	1,097	832	430	233	143	67.0	8,745	3,195	5,119	1,462	2,356
17	1,209	1,089	588	425	229	143	65.0	8,639	3,180	4,937	1,260	2,432
18	1,213	1,077	580	420	226	140	63.0	8,724	3,133	4,692	1,111	2,461
19	1,198	1,074	574	415	221	137	62.0	9,048	3,154	4,503	907	2,625
20	1,198	1,066	569	411	217	133	3,117	9,305	3,746	4,323	756	2,804
21	1,190	1,059	563	406	214	131	3,763	9,700	4,352	4,162	828	3,024
22	1,187	1,044	558	383	210	128	4,191	10,188	4,853	3,675	921	3,285
23	1,183	1,037	552	378	207	126	4,591	10,527	5,192	3,581	845	3,642
24	1,256	1,029	547	374	204	123	4,889	10,453	5,390	3,868	852	3,891
25	1,256	1,022	542	370	201	121	4,943	10,291	5,496	3,824	872	3,880
26	1,248	1,004	536	365	196	117	4,979	9,700	5,697	3,802	928	3,902
27	1,240	1,000	531	361	193	114	5,322	8,780	5,972	3,768	932	4,139
28	1,236	986	526	356	189	112	5,780	7,856	6,342	3,741	971	4,421
29	1,236	975	520	304	-----	110	6,257	6,970	6,711	3,708	1,059	4,680
30	1,233	971	515	300	-----	105	6,552	6,316	7,030	3,675	1,126	4,486
31	1,225	-----	510	296	-----	103	-----	5,483	-----	3,495	1,171	-----
MAX	4,145	1,225	967	505	292	186	6,552	10,527	7,030	7,251	3,408	4,680
MIN	1,156	971	510	256	189	103	62.0	5,483	3,133	3,495	756	1,206
WTR YEAR 1998			MEAN	2,350	MAX	10,527	MIN	62.0				

NORTH PLATTE RIVER BASIN

LITTLE LAKE ALICE RESERVOIR from North Platte River, 00405200 - 1998

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

GAGE.--Slope gage

PERIOD OF RECORD.--1992 - present

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

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

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	371	173	168	148	134	68	53	234	361	345	319	359
2	365	169	164	149	131	66	53	238	358	346	319	359
3	349	169	163	149	129	65	52	239	325	350	317	362
4	319	169	163	148	128	67	49	240	296	353	317	360
5	286	175	164	147	126	67	50	212	283	353	315	360
6	152	175	163	148	125	67	51	200	274	353	315	355
7	102	175	163	147	125	66	53	200	267	355	314	358
8	122	176	163	147	125	67	53	200	270	353	312	361
9	134	175	163	148	124	67	51	201	267	349	308	366
10	140	175	163	146	124	66	50	203	263	345	309	367
11	144	175	162	148	123	65	49	204	258	344	318	365
12	145	174	161	148	123	64	49	190	253	341	319	365
13	143	175	161	146	121	65	47	183	252	337	315	364
14	145	173	161	147	120	64	49	183	247	333	316	358
15	145	173	160	146	114	64	49	287	245	332	317	359
16	144	172	160	146	103	63	49	301	242	330	310	355
17	144	173	160	146	87	62	49	293	240	329	312	358
18	143	172	159	146	79	64	48	201	236	327	313	358
19	144	171	160	149	74	60	48	141	256	327	304	358
20	152	171	158	149	71	58	46	132	314	328	302	362
21	158	171	155	149	69	56	219	130	350	326	314	362
22	163	170	153	148	68	55	286	71	375	325	323	360
23	165	169	151	149	67	53	312	128	380	324	328	364
24	184	169	149	148	65	53	321	95	376	321	333	364
25	181	169	149	148	70	52	366	79	352	324	337	358
26	179	168	147	147	66	52	379	265	337	323	342	313
27	176	168	148	146	65	51	239	355	333	321	352	295
28	176	168	146	146	68	53	195	382	334	323	355	294
29	175	168	145	145	-----	56	191	380	339	324	353	297
30	175	168	146	139	-----	55	221	364	344	321	353	335
31	174	-----	147	138	-----	54	-----	350	-----	319	358	-----
MAX	371	176	168	149	134	68	379	382	380	355	358	367
MIN	102	168	145	138	65	51	46	71	236	319	302	294
WTR YEAR 1998			MEAN	207	MAX	382	MIN	46				

NORTH PLATTE RIVER BASIN

LAKE MINATARE RESERVOIR from North Platte, 00406300 - 1998

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

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37,086	39,898	39,133	38,645	38,302	37,907	37,478	44,327	51,958	53,341	34,314	17,122
2	37,764	39,770	39,206	38,627	38,320	37,782	37,550	44,845	52,803	52,844	33,745	16,636
3	38,519	39,770	39,170	38,753	38,320	37,925	37,442	45,560	53,113	52,370	33,248	16,206
4	39,097	39,770	39,061	38,681	38,302	37,889	37,514	45,657	53,196	51,835	32,753	15,697
5	39,697	39,588	39,043	38,645	38,302	37,872	37,478	45,949	52,968	51,119	32,194	15,233
6	40,245	39,588	39,097	38,627	38,302	37,979	37,532	46,183	52,927	50,468	31,623	14,857
7	40,318	39,551	39,025	38,591	38,284	37,925	37,603	46,359	52,886	50,164	31,171	14,428
8	40,318	39,660	39,025	38,591	38,267	37,943	37,603	46,574	52,989	49,578	30,690	14,063
9	40,190	39,606	39,097	38,627	38,267	37,818	37,532	46,673	53,030	49,136	30,211	13,837
10	40,172	39,588	39,043	38,699	38,249	37,889	37,478	46,771	53,010	48,555	29,621	13,535
11	40,080	39,588	38,970	38,591	38,159	37,854	37,460	46,810	52,906	47,956	29,004	13,380
12	40,117	39,551	38,934	38,591	38,284	37,782	37,514	46,889	52,782	47,342	28,424	13,314
13	40,007	39,551	38,898	38,627	38,141	37,818	37,460	46,908	52,865	46,692	27,816	13,226
14	39,952	39,515	38,862	38,555	38,105	37,746	37,567	47,066	52,803	46,164	27,183	13,303
15	39,825	39,424	38,880	38,537	38,195	37,728	37,550	47,007	52,700	45,483	26,586	13,425
16	39,825	39,497	38,898	38,555	38,231	37,800	37,478	47,145	52,741	44,730	25,935	13,613
17	39,806	39,387	38,880	38,519	38,195	37,764	37,496	47,263	52,700	43,983	25,399	13,815
18	39,843	39,369	38,880	38,555	38,213	37,854	37,442	47,480	52,638	43,279	24,778	14,040
19	39,825	39,387	38,862	38,537	38,123	37,728	37,407	47,461	52,535	42,600	24,090	14,233
20	39,825	39,387	38,862	38,537	38,087	37,693	37,335	47,401	52,824	41,964	23,516	14,417
21	39,752	39,369	38,862	38,392	38,087	37,675	37,353	47,560	53,237	41,276	22,991	14,670
22	39,825	39,351	38,771	38,519	38,087	37,728	37,621	47,560	53,590	40,520	22,373	14,787
23	39,697	39,297	38,807	38,392	38,123	37,657	38,231	47,500	53,798	39,788	21,777	14,974
24	40,007	39,242	38,844	38,465	38,087	37,693	39,079	47,639	54,257	39,151	21,260	15,233
25	40,007	39,151	38,826	38,410	38,015	37,532	40,007	47,659	54,529	38,555	20,721	15,710
26	39,934	39,260	38,789	38,320	38,033	37,550	41,036	47,798	54,696	37,818	20,229	16,206
27	39,916	39,206	38,735	38,284	37,961	37,585	41,889	48,375	54,571	37,175	19,730	16,773
28	39,879	39,170	38,771	38,356	37,854	37,657	42,544	49,236	54,299	36,589	19,236	17,399
29	39,898	39,206	38,717	38,302	-----	37,746	43,090	49,962	54,027	36,077	18,658	17,997
30	39,825	39,151	38,699	38,284	-----	37,657	43,735	50,712	53,653	35,533	18,190	18,592
31	39,825	-----	38,681	38,320	-----	37,603	-----	51,303	-----	34,870	17,690	-----
MAX	40,318	39,898	39,206	38,753	38,320	37,979	43,735	51,303	54,696	53,341	34,314	18,592
MIN	37,086	39,151	38,681	38,284	37,854	37,532	37,335	44,327	51,958	34,870	17,690	13,226
WTR YEAR 1998			MEAN	38,096		MAX	54,696		MIN	13,226		

NORTH PLATTE RIVER BASIN

WINTERS CREEK RESERVOIR, 00412000 - 1998

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

GAGE.--Reference point

PERIOD OF RECORD.--1992 - present

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

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

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	672	657	1,126	1,057	964	871	772	657	882	1,145	826	680
2	670	653	1,123	1,055	961	871	772	655	854	1,155	826	672
3	668	662	1,119	1,060	959	880	766	653	871	1,143	826	668
4	670	662	1,119	1,050	959	893	766	676	1,233	1,140	833	662
5	678	653	1,119	1,046	952	891	754	726	1,223	1,121	818	655
6	676	649	1,111	1,046	950	893	756	764	1,213	1,111	814	653
7	678	645	1,111	1,043	946	895	762	812	1,211	1,109	810	651
8	662	649	1,119	1,041	941	893	762	854	1,223	1,097	808	637
9	676	645	1,121	1,041	939	888	754	891	1,218	1,078	808	630
10	694	641	1,121	1,041	939	891	748	930	1,218	1,062	801	628
11	668	637	1,121	1,041	930	882	738	912	1,208	1,041	793	630
12	662	641	1,114	1,036	928	875	736	928	1,208	1,020	781	630
13	670	637	1,107	1,036	923	871	734	904	1,208	1,007	776	630
14	664	637	1,104	1,025	923	869	736	886	1,208	977	762	630
15	664	628	1,100	1,023	923	865	738	878	1,196	973	758	630
16	668	649	1,100	1,016	921	865	734	882	1,194	957	754	637
17	664	634	1,095	1,011	921	863	724	871	1,194	937	750	637
18	662	886	1,095	1,009	919	837	722	893	1,194	926	748	645
19	678	912	1,095	1,009	912	831	714	886	1,181	908	746	645
20	676	895	1,090	1,009	908	822	700	880	1,179	895	744	659
21	670	897	1,090	997	904	816	694	878	1,174	891	746	661
22	670	886	1,090	975	902	812	682	869	1,176	880	738	664
23	670	895	1,085	993	902	812	678	871	1,172	873	732	668
24	653	839	1,085	988	897	801	670	878	1,164	869	730	676
25	649	1,138	1,083	986	891	797	670	880	1,162	863	720	680
26	645	1,133	1,078	982	884	793	668	886	1,169	856	716	690
27	649	1,135	1,076	977	882	793	668	873	1,164	850	710	692
28	653	1,126	1,074	977	875	801	664	873	1,157	848	704	702
29	657	1,126	1,069	973	-----	797	659	893	1,152	843	698	712
30	668	1,126	1,069	968	-----	776	657	884	1,145	833	690	720
31	657	-----	1,057	968	-----	766	-----	886	-----	824	690	-----
MAX	694	1,138	1,126	1,060	964	895	772	930	1,233	1,155	833	720
MIN	645	628	1,057	968	875	766	657	653	854	824	690	628
WTR YEAR 1998			MEAN	873	MAX	1,233	MIN	628				

NORTH PLATTE RIVER BASIN

MITCHELL & GERING CANAL from North Platte River, 00101100 - 1998

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

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

PERIOD OF RECORD.--1916 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166						0	156	181	321	338	337
2	165						0	157	160	339	340	325
3	166						0	162	140	338	343	313
4	166						0	171	140	337	341	294
5	165						0	179	141	338	350	279
6	165						0	179	143	350	358	280
7	165						0	180	144	357	357	280
8	164						0	182	144	356	358	280
9	166						0	179	121	355	360	280
10	166						0	181	103	355	363	280
11	166						0	179	102	353	365	268
12	166						0	181	102	353	360	249
13	83						0	181	102	353	358	250
14	0						0	179	106	356	356	248
15	0						0	179	115	357	354	237
16	0						0	178	114	357	355	221
17	0						0	178	114	359	355	221
18	0						0	179	115	357	355	211
19	0						0	179	115	356	352	194
20	0						0	180	114	355	352	194
21	0						0	181	114	359	351	194
22	0						0	181	114	360	353	195
23	0						0	181	143	358	352	194
24	0						0	178	152	360	349	182
25	0						0	181	168	358	343	165
26	0						0	179	174	357	337	166
27	0						0	180	176	357	337	166
28	0						0	179	177	347	339	164
29	0				-----		114	179	241	339	337	163
30	0				-----		156	181	291	341	338	163
31	0	-----			-----		-----	181	-----	341	337	-----
TOTAL	2,069						270	5,500	4,266	10,879	10,843	6,993
MEAN	66.7						9.00	177	142	351	350	233
MAX	166						156	182	291	360	365	337
MIN	0						0	156	102	321	337	163
AC-FT	4,100						536	10,910	8,460	21,580	21,510	13,870
CAL YEAR 1997	MAX	361	MIN	0	AC-FT	74,880						
WTR YEAR 1998	MAX	365	MIN	0	AC-FT	80,970						

NORTH PLATTE RIVER BASIN

GERING CANAL from North Platte River via Mitchell and Gering Canal, 00056000 - 1998

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

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

PERIOD OF RECORD.--1916 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155						0	40	102	144	180	176
2	158						0	75	98	147	185	170
3	157						0	68	100	151	189	177
4	157						0	61	102	154	188	163
5	156						0	79	105	155	185	165
6	157						0	82	105	159	187	165
7	157						0	76	95	169	179	157
8	158						0	87	84	183	196	158
9	154						0	81	59	182	201	159
10	154						0	113	66	179	196	159
11	154						0	92	65	174	194	158
12	153						0	86	60	176	183	156
13	151						0	85	66	171	194	166
14	36						0	81	67	169	203	148
15	0						0	87	72	174	192	136
16	0						0	82	71	184	184	134
17	0						0	91	70	179	191	134
18	0						0	84	76	180	193	145
19	0						0	85	72	180	199	141
20	0						0	85	73	179	197	134
21	0						0	101	72	185	200	127
22	0						0	100	71	186	198	115
23	0						0	106	67	183	197	114
24	0						0	102	71	185	199	108
25	0						0	100	71	199	186	111
26	0						0	98	71	192	188	108
27	0						0	97	66	192	184	106
28	0						0	94	68	182	184	112
29	0				-----		0	91	83	184	190	109
30	0				-----		0	100	126	206	198	109
31	0	-----			-----		-----	99	-----	180	177	-----
TOTAL	2,057						0	2,708	2,374	5,463	5,917	4,220
MEAN	66.4						0	87.4	79.1	176	191	141
MAX	158						0	113	126	206	203	177
MIN	0						0	40	59	144	177	106
AC-FT	4,080						0	5,370	4,710	10,840	11,740	8,370
CAL YEAR 1997	MAX	255	MIN	0	AC-FT	46,260						
WTR YEAR 1998	MAX	206	MIN	0	AC-FT	45,100						

NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from North Platte River, 00145100 - 1998

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1916, 1919 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	587	425	1,200	1,070	979
2							0	597	426	1,240	1,070	955
3							0	570	441	1,270	1,070	919
4							0	537	450	1,260	1,060	852
5							0	532	456	1,290	1,040	838
6							0	544	236	1,280	1,030	841
7							0	539	81	1,250	1,020	849
8							0	529	67	1,270	1,000	851
9							0	536	0	1,170	1,030	754
10							0	504	0	1,130	1,050	694
11							0	504	0	1,130	1,060	640
12							0	470	0	1,120	1,060	599
13							0	490	0	1,140	1,070	593
14							0	453	0	1,140	1,070	598
15							0	517	144	1,140	1,080	570
16							0	496	255	1,140	1,060	515
17							0	497	309	1,170	1,080	499
18							0	509	317	1,190	1,080	499
19							0	504	295	1,180	1,070	492
20							0	504E	294	1,170	1,060	493
21							0	504E	403	1,190	1,070	502
22							0	500E	469	1,160	1,060	494
23							0	480E	512	1,140	1,060	493
24							0	480E	541	1,140	1,050	501
25							0	500E	602	1,150	1,060	500
26							0	475E	685	1,110	1,050	309
27							14	465	796	1,070	1,020	133
28							483	443	881	1,070	985	110
29					-----		580	425	970	1,080	979	0
30					-----		581	424	1,070	1,080	977	0
31		-----			-----		-----	428	-----	1,080	972	-----
TOTAL							1,658	15,543	11,125	36,150	32,413	17,072
MEAN							55.3	501	371	1,166	1,046	569
MAX							581	597	1,070	1,290	1,080	979
MIN							0	424	0	1,070	972	0
AC-FT							3,290	30,830	22,070	71,700	64,290	33,860

CAL YEAR 1997 MAX 1,300 MIN 0 AC-FT 226,100
 WTR YEAR 1998 MAX 1,290 MIN 0 AC-FT 226,000

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Sheep Creek, 00144700 - 1998

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

GAGE.--Continuous Stage Recorder

PERIOD OF RECORD.--1986 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	51	54	77	80
2								0	51	51	77	79
3								0	51	51	81	77
4								0	52	51	83	79
5								35	55	52	85	80
6								49	0	53	80	83
7								49	0	53	80	83
8								50	0	54	80	83
9								51	0	55	80	83
10								51	0	54	81	85
11								51	0	52	80	85
12								52	0	51	77	89
13								51	0	51	78	92
14								51	0	51	77	90
15								55	0	51	78	90
16								55	0	51	78	90
17								55	0	54	79	92
18								55	0	56	80	91
19								52	38	55	83	92
20								53	38	56	80	94
21								55	38	61	80	98
22								56	55	63	81	94
23								57	71	62	82	92
24								54	54	68	81	89
25								54	53	75	76	0
26								53	51	77	78	0
27								52	51	73	79	0
28								51	51	69	82	0
29					-----			51	53	70	83	0
30					-----			51	54	76	80	0
31		-----			-----		-----	51	-----	77	79	-----
TOTAL								1,400	867	1,827	2,475	2,090
MEAN								45.2	28.9	58.9	79.8	69.7
MAX								57	71	77	85	98
MIN								0	0	51	76	0
AC-FT								2,780	1,720	3,620	4,910	4,150
CAL YEAR 1997 MAX		94	MIN	0	AC-FT	12,740						
WTR YEAR 1998 MAX		98	MIN	0	AC-FT	17,180						

NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Akers Draw, 00144500 - 1998

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1986 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								10	11	11	14	13
2								10	11	8.0	14	12
3								10	11	10	14	9.0
4								10	11	11	14	15
5								9.0	11	11	13	16
6								9.0	11	13	11	17
7								9.0	11	13	11	19
8								9.0	11	14	12	9.0
9								9.0	11	8.0	12	10
10								9.0	11	8.0	12	9.0
11								9.0	11	9.0	12	9.0
12								9.0	10	9.0	11	9.0
13								10	9.0	8.0	13	10
14								10	9.0	10	16	10
15								9.0	9.0	11	18	10
16								9.0	9.0	12	19	10
17								9.0	10	10	12	10
18								9.0	10	10	14	11
19								9.0	9.0	10	14	11
20								9.0	9.0	11	9.0	11
21								9.0	9.0	15	13	11
22								9.0	9.0	13	14	11
23								9.0	9.0	12	13	12
24								9.0	8.0	13	13	12
25								9.0	8.0	17	14	12
26								10	8.0	15	15	12
27								10	9.0	17	13	12
28								10	9.0	18	12	11
29					-----			10	11	12	12	11
30					-----			10	11	14	12	11
31		-----			-----		-----	11	-----	15	12	-----
TOTAL								292.0	296.0	368.0	408.0	345.0
MEAN								9.42	9.87	11.9	13.2	11.5
MAX								11	11	18	19	19
MIN								9.0	8.0	8.0	9.0	9.0
AC-FT								579	587	730	809	684
CAL YEAR 1997	MAX	17	MIN	4.0	AC-FT	3,370						
WTR YEAR 1998	MAX	19	MIN	8.0	AC-FT	3,390						

NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Dry Spotted Tail Creek, 00144600 - 1998

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1986 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	7.0	7.0	19	18
2								0	7.0	9.0	19	19
3								0	7.0	9.0	18	19
4								0	8.0	12	17	19
5								0	8.0	10	17	19
6								3.0	4.0	10	17	19
7								5.0	0	11	17	19
8								6.0	0	11	18	18
9								8.0	0	11	18	22
10								8.0	0	11	17	22
11								9.0	0	11	16	22
12								8.0	0	12	17	20
13								7.0	0	12	17	20
14								7.0	0	12	17	20
15								8.0	0	13	16	19
16								8.0	3.0	13	16	18
17								7.0	6.0	13	17	19
18								8.0	6.0	13	16	19
19								8.0	5.0	13	17	19
20								8.0	5.0	14	17	19
21								9.0	5.0	17	17	24
22								9.0	7.0	17	17	21
23								10	11	18	17	20
24								9.0	8.0	18	18	19
25								9.0	7.0	20	18	6.0
26								9.0	7.0	21	18	0
27								8.0	7.0	19	19	0
28								8.0	8.0	18	18	0
29					-----			8.0	7.0	18	18	0
30					-----			8.0	8.0	20	17	0
31		-----			-----		-----	7.0	-----	20	17	-----
TOTAL								202.0	141.0	433.0	537	479.0
MEAN								6.52	4.70	14.0	17.3	16.0
MAX								10	11	21	19	24
MIN								0	0	7.0	16	0
AC-FT								401	280	859	1,070	950
CAL YEAR 1997	MAX	31	MIN	0	AC-FT	3,190						
WTR YEAR 1998	MAX	24	MIN	0	AC-FT	3,550						

NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Wet Spotted Tail Creek, 00144900 - 1998

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1986 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								7.0	6.0	0	15	11
2								7.0	5.0	4.0	10	11
3								5.0	6.0	3.0	9.0	12
4								0	6.0	4.0	12	12
5								3.0	5.0	6.0	18	12
6								3.0	4.0	8.0	19	13
7								4.0	3.0	11	19	13
8								4.0	4.0	12	23	16
9								4.0	7.0	12	17	14
10								5.0	7.0	12	17	14
11								6.0	7.0	12	16	15
12								3.0	7.0	14	16	16
13								3.0	7.0	13	16	20
14								3.0	6.0	14	20	18
15								3.0	7.0	17	23	12
16								4.0	6.0	20	15	18
17								4.0	5.0	15	12	21
18								6.0	5.0	13	14	26
19								8.0	4.0	13	14	20
20								8.0	3.0	11	13	25
21								9.0	3.0	11	14	46
22								11	5.0	8.0	21	32
23								8.0	5.0	7.0	20	29
24								6.0	4.0	6.0	16	25
25								7.0	4.0	8.0	15	27
26								8.0	4.0	8.0	12	23
27								8.0	3.0	6.0	13	19
28								6.0	0	5.0	18	20
29					-----			6.0	0	7.0	20	20
30					-----			6.0	0	11	20	23
31		-----			-----		-----	6.0	-----	15	14	-----
TOTAL								171.0	138.0	306.0	501.0	583
MEAN								5.52	4.60	9.87	16.2	19.4
MAX								11	7.0	20	23	46
MIN								0	0	0	9.0	11
AC-FT								339	274	607	994	1,160
CAL YEAR 1997	MAX	45	MIN	0	AC-FT	5,610						
WTR YEAR 1998	MAX	46	MIN	0	AC-FT	3,370						

NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Tub Springs, 00144800 - 1998

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1986 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	20	21	27	34
2								0	19	25	28	34
3								0	18	28	24	34
4								0	18	32	25	34
5								0	18	31	24	33
6								63	6.0	33	26	33
7								17	0	37	28	34
8								17	0	38	27	34
9								18	0	38	25	33
10								18	0	36	28	32
11								19	0	38	29	32
12								19	0	37	24	33
13								20	0	36	24	32
14								21	0	37	29	33
15								22	0	37	32	33
16								23	0	37	32	34
17								24	10	36	39	34
18								23	18	35	39	33
19								23	18	33	39	33
20								24	17	32	38	33
21								30	18	31	36	33
22								25	21	30	36	32
23								25	22	29	35	32
24								25	20	27	35	31
25								25	19	27	34	7.0
26								25	18	27	35	0
27								25	17	25	35	0
28								24	17	24	35	0
29					-----			23	17	30	35	0
30					-----			22	17	29	34	0
31		-----			-----		-----	21	-----	23	35	-----
TOTAL								621	348.0	979	972	800.0
MEAN								20.0	11.6	31.6	31.4	26.7
MAX								63	22	38	39	34
MIN								0	0	21	24	0
AC-FT								1,230	690	1,940	1,930	1,590
CAL YEAR 1997	MAX	43	MIN	0	AC-FT	6,110						
WTR YEAR 1998	MAX	63	MIN	0	AC-FT	7,380						

NORTH PLATTE RIVER BASIN

NORTHPORT CANAL from North Platte River and Drains via Tri-State Canal, 00115100 - 1998

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

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

PERIOD OF RECORD.--1920, 1922 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8							0	104	228	259	253
2	1.6							0	100	258	261	251
3	0							0	100	257	262	248
4	0							72	100	258	262	253
5	0							107	99	254	262	254
6	0							108	102	255	257	233
7	0							106	124	255	256	231
8	0							108	17	260	259	226
9	0							108	0	255	249	222
10	0							109	0	250	238	221
11	0							106	0	256	237	203
12	0							106	0	253	245	198
13	0							105	0	253	240	169
14	0							104	0	256	240	150
15	0							107	0	257	251	152
16	0							107	0	257	252	153
17	0							106	0	258	251	129
18	0							105	8.1	259	253	112
19	0							107	116	263	256	108
20	0							103	103	261	256	110
21	0							103	101	259	253	112
22	0							100	103	262	252	103
23	0							104	112	260	253	89
24	0							104	104	260	250	84
25	0							106	137	262	254	85
26	0							104	186	265	258	88
27	0							105	176	261	256	46
28	0							105	185	262	254	9.1
29	0				-----			101	184	258	256	0
30	0				-----			104	204	264	251	0
31	0	-----			-----		-----	106	-----	263	250	-----
TOTAL	4.4							2,916	2,465.1	7,979	7,833	4,492.1
MEAN	.14							94.1	82.2	257	253	150
MAX	2.8							109	204	265	262	254
MIN	0							0	0	228	237	0
AC-FT	8.7							5,780	4,890	15,830	15,540	8,910
CAL YEAR 1997	MAX	271	MIN	0	AC-FT	49,090						
WTR YEAR 1998	MAX	265	MIN	0	AC-FT	50,960						

NORTH PLATTE RIVER BASIN

HORSE CREEK near Lyman, 06677500 - 1998

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

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

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

PERIOD OF RECORD.--Feb. 1931 to present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 462 cubic feet per second May 10, gage height 4.57 feet; minimum daily discharge 28 cubic feet per second on January 9-11, 13.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	90	40	36	89	86	98	45	261	173	104	122
2	99	70	40	36	89	63	94	42	276	146	110	136
3	94	63	40	34	90	77	87	41	292	150	117	141
4	87	60	37	36	94	91	86	77	303	143	130	130
5	82	59	37	32	94	100	84	255	330	126	145	131
6	78	57	42	32	95	103	82	301	316	113	157	137
7	76	56	37	30	94	100	137	327	305	79	140	148
8	76	55	38	30	94	106	99	322	331	83	128	153
9	73	55	37	28	95	112	99	297	320	82	135	191
10	71	55	35	28E	95	105	95	247	314	74	140	210
11	70	53	33	28E	94	99	92	234	311	67	166	200
12	65	53	38	29E	94	105	87	218	279	68	150	192
13	63	53	40	28E	94	107	87	221	262	67	138	199
14	62	52E	35	29E	94	133	95	193	263	69	129	195
15	61	51E	35	29E	93	167	102	205	262	70	131	185
16	60E	50E	34	29	98	202	102	211	246	76	125	200
17	58E	50	35	34	100	167	98	235	266	70	122	203
18	56E	50	35	47	99	154	90	224	279	70	122	230
19	54E	49	35	51	97	140	80	176	272	68	121	208
20	52E	50	33	59	95	134	77	164	263	67	104	205
21	50E	49	35	66	95	136	77	154	251	69	103	269
22	50	47	33	80	94	134	77	223	236	76	115	304
23	49	45	33	74	92	129	77	275	233	75	122	324
24	56	46	32	74	92	129	75	277	207	78	132	338
25	45	45	31	83	83	116	71	252	189	81	148	300E
26	60	44	32	77	105	109	63	255	178	94	143	260E
27	65	44	32	85	89	103	57	251	156	94	123	220E
28	75	43	31	89	90	98	56	281	134	91	111	180E
29	81	42	35	81	-----	134	129	269	162	86	110	145E
30	93	40	37	82	-----	105	74	255	179	98	113	125E
31	113	-----	33	83	-----	94	-----	250	-----	103	116	-----
TOTAL	2,187	1,576	1,100	1,559	2,627	3,638	2,627	6,777	7,680	2,806	3,950	5,981
MEAN	70.5	52.5	35.5	50.3	93.8	117	87.6	219	256	90.5	127	199
MAX	113	90	42	89	105	202	137	327	331	173	166	338
MIN	45	40	31	28	83	63	56	41	134	67	103	122
AC-FT	4,340	3,130	2,180	3,090	5,210	7,220	5,210	13,440	15,230	5,570	7,830	11,860
CAL YEAR 1997 TOTAL		41,506	MEAN	114	MAX	826	MIN	13	AC-FT	82,330		
WTR YEAR 1998 TOTAL		42,508	MEAN	116	MAX	338	MIN	28	AC-FT	84,310		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

SHEEP CREEK near Morrill, 06678000 - 1998

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 140 cubic feet per second September 25, gage height 2.85 feet; minimum daily discharge 2.3 cubic feet per second July 27-29.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	105	77	82	76	80	65	56	3.1	2.5	3.9	3.1
2	110	93	77	82	76	80	64	57	3.0	2.6	4.0	3.1
3	109	83	77	81	76	81	63	60	3.2	2.7	3.5	3.0
4	110	82	76	81	77	81	62	59	3.3	2.8	3.2	3.0
5	109	82	76	81	77	80	61	29	3.2	2.8	3.3	3.2
6	108	83	77	81	76	80	61	3.7	42	2.9	3.3	3.3
7	109	83	78	80	77	80	65	3.6	58	2.9	3.3	3.3
8	113	82	78	80	78	79	59	3.2	66	3.0	3.2	3.2
9	111	84	79	79	78	79	58	3.2	60	3.0	3.1	3.1
10	109	83	79	79	78	79	57	3.4	60	3.1	3.2	3.0
11	111	83	79	79	78	78	56	3.4	59	3.3	3.1	2.9
12	119	83	80	78	78	79	54	3.2	58	3.3	3.1	2.9
13	122	83	81	79	78	80	53	3.2	58	3.1	3.0	2.8
14	119	82	81	79	79	80	55	3.2	57	3.2	2.9	2.6
15	111	82	82	79	78	79	54	3.2	55	3.4	2.8	2.6
16	108	83	81	78	81	78	57	3.2	23	4.0	2.7	2.7
17	111	85	82	78	80	78	57	3.3	2.9	3.8	2.6	3.0
18	108	86	82	78	79	76	58	3.3	2.9	3.7	2.7	3.5
19	101	85	81	78	79	75	59	3.2	2.7	3.7	2.7	3.2
20	100	85	81	77	79	74	58	3.3	2.5	3.7	2.7	2.9
21	99	83	81	76	79	74	59	3.5	2.4	3.5	2.8	3.0
22	97	82	81	76	79	73	59	3.5	2.5	3.3	3.1	2.9
23	95	81	81	75	80	74	58	3.4	2.7	2.9	3.1	3.2
24	103	81	81	76	80	73	58	3.3	2.6	2.9	3.0	3.2
25	97	81	80	75	86	72	57	3.2	2.5	2.8	3.1	63
26	95	81	81	75	83	71	57	3.3	2.5	2.5	3.0	89
27	95	81	82	75	80	71	57	3.3	2.4	2.3	3.0	87
28	95	79	82	76	80	72	57	3.3	2.4	2.3	3.0	88
29	92	78	83	76	-----	74	57	3.2	2.4	2.3	3.0	88
30	89	77	83	76	-----	70	56	3.0	2.5	3.8	3.2	88
31	92	-----	83	76	-----	67	-----	3.1	-----	3.8	3.3	-----
TOTAL	3,259	2,501	2,482	2,421	2,205	2,367	1,751	346.7	647.7	95.9	95.9	576.1
MEAN	105	83.4	80.1	78.1	78.8	76.4	58.4	11.2	21.6	3.09	3.09	19.2
MAX	122	105	83	82	86	81	65	60	66	4.0	4.0	89
MIN	89	77	76	75	76	67	53	3.0	2.4	2.3	2.6	2.7
AC-FT	6,460	4,960	4,920	4,800	4,370	4,690	3,470	688	1,280	190	190	1,140
CAL YEAR 1997 TOTAL		21,176.7	MEAN	58.0	MAX	125	MIN	7.5	AC-FT	42,000		
WTR YEAR 1998 TOTAL		18,748.3	MEAN	51.4	MAX	122	MIN	2.3	AC-FT	37,190		

NORTH PLATTE RIVER BASIN

ENTERPRISE CANAL from North Platte River, 00040000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1916, 1919 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57						0	57	61	91	108	103
2	44						0	60	65	97	93	113
3	22						0	52	69	100	96	112
4	0						0	53	70	99	118	109
5	0						0	70	73	98	122	100
6	0						0	80	73	99	90	94
7	0						0	87	50	87	92	96
8	0						0	79	48	98	85	99
9	0						0	67	48	133	87	96
10	0						0	61	48	112	101	88
11	0						0	66	49	113	121	84
12	0						0	65	47	93	102	82
13	0						0	67	47	89	97	79
14	0						0	69	47	96	103	76
15	0						0	73	46	104	106	70
16	0						0	74	48	125	101	70
17	0						0	76	45	114	99	69
18	0						0	72	45	104	105	70
19	0						0	66	45	106	103	70
20	0						0	65	44	111	96	68
21	0						0	59	43	109	108	71
22	0						0	72	57	134	112	74
23	0						0	68	67	127	107	75
24	0						0	65	75	121	99	70
25	0						0	61	69	113	90	70
26	0						0	60	59	102	84	70
27	0						0	57	61	101	86	73
28	0						0	61	62	106	89	71
29	0				-----		0	65	81	97	100	67
30	0				-----		0	63	86	108	100	67
31	0	-----			-----		-----	61	-----	114	101	-----
TOTAL	123						0	2,051	1,728	3,301	3,101	2,456
MEAN	3.97						0	66.2	57.6	106	100	81.9
MAX	57						0	87	86	134	122	113
MIN	0						0	52	43	87	84	67
AC-FT	244						0	4,070	3,430	6,550	6,150	4,870
CAL YEAR 1997	MAX	120	MIN	0	AC-FT	22,810						
WTR YEAR 1998	MAX	134	MIN	0	AC-FT	25,310						

NORTH PLATTE RIVER BASIN

DRY SPOTTED TAIL CREEK at Mitchell, 06679000 - 1998

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

DRAINAGE AREA.--77.2 square miles.

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

PERIOD OF RECORD.--1948 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 173 cubic feet per second June 23, gage height 2.00 feet; minimum daily discharge 13 cubic feet per second March 8,9, June 17-21.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	45	38	30	16	16	20	40	16	51	82	48
2	77	43	38	30	15	16	21	39	16	55	81	46
3	69	44	38	30	15	15	21	39	16	62	78	47
4	53	43	37	29	15	15	20	36	16	71	78	46
5	50	43	36	30	15	15	20	39	17	69	74	49
6	49	43	36	29	16	14	21	40	21	72	68	52
7	48	42	35	28	16	14	24	40	23	70	68	55
8	48	42	36	29	16	13	22	41	24	62	67	54
9	44	42	36	26	16	13	22	38	22	68	62	51
10	37	42	35	25	16	16	21	42	19	62	51	54
11	37	41	35	28	17	16	21	50	19	57	55	53
12	35	41	34	21	17	18	21	54	19	64	56	54
13	33	40	35	27	17	19	21	45	19	69	61	56
14	32	38	35	29	17	19	21	37	19	68	67	59
15	32	36	35	27	17	19	22	35	18	68E	66	58
16	30	34	34	17	17	19	20	34	16	68	63	57
17	31	40	34	17	17	19	21	35	13	65	57	55
18	30	39	34	17	17	19	20	34	13	69	53	50
19	30	40	33	17	17	19	20	28	13	73	54	49
20	31	40	33	17	16	19	20	28	13	76	61	50
21	30	40	33	17	16	19	20	31	13	80	66	65
22	30	40	33	17	16	19	20	26	23	79	67	64
23	29	39	32	16	16	20	19	18	119	81	67	62
24	50	39	32	16	16	20	18	18	65	84	67	58
25	45	39	32	16	16	20	18	19	51	94	57	72
26	35	39	32	16	16	19	18	18	48	101	48	83
27	49	38	30	15	15	19	18	18	45	92	45	86
28	50	39	30	15	15	21	18	18	43	82	48	76
29	49	39	33	15	-----	24	18	18	41	75	47	71
30	47	38	31	15	-----	21	26	17	44	87	50	57
31	47	-----	30	15	-----	21	-----	16	-----	84	50	-----
TOTAL	1,310	1,208	1,055	676	451	556	612	991	844	2,258	1,914	1,737
MEAN	42.3	40.3	34.0	21.8	16.1	17.9	20.4	32.0	28.1	72.8	61.7	57.9
MAX	77	45	38	30	17	24	26	54	119	101	82	86
MIN	29	34	30	15	15	13	18	16	13	51	45	46
AC-FT	2,600	2,400	2,090	1,340	895	1,100	1,210	1,970	1,670	4,480	3,800	3,450
CAL YEAR 1997 TOTAL		14,612	MEAN	40.0	MAX	167	MIN	11	AC-FT	28,980		
WTR YEAR 1998 TOTAL		13,612	MEAN	37.3	MAX	119	MIN	13	AC-FT	27,000		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER at Mitchell, 06679500 - 1998

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

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 3,960 cubic feet per second April 7, gage height 6.66 feet; minimum daily discharge 259 cubic feet per second July 15.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,120E	763	579	506	487	390	3,470	648	427	305	398	284
2	1,020E	721	577	503	485	394	3,480	500	442	319	374	302
3	900E	699	572	494	480	418	3,500	428	442	364	363	301
4	843	692	567	484	479	455	3,550	401	444	374	381	314
5	793	684	561	490	471	463	3,580	445	456	381	419	304
6	756	674	552	497	472	475	3,590	492	551	390	389	304
7	734	672	553	494	470	495	3,840	497	790	351	347	320
8	726	667	555	493	470	620E	3,730	495	863	341	318	331
9	706	661	557	478	471	800E	3,670	487	840	364	312	346
10	689	657	549	464	469	1,250	3,680	480	809	341	310	399
11	678	650	534	464	467	1,460	3,690	509	811	321	356	394
12	655	646	530	439	465	1,600	3,720	450	784	311	349	404
13	648	642	534	424	462	1,720	3,700	434	745	293	304	403
14	756	621	536	463	469	1,950	3,660	406	735	272	298	414
15	757	614	531	479	467	2,190	3,740	413	696	259	301	416
16	750	615	530	463	473	2,450	3,370	422	624	272	295	425
17	743	619	530	462	477	2,650	3,260	409	483	284	293	433
18	735	616	531	469	472	2,860	3,220	398	456	285	291	425
19	724	615	527	472	466	2,950	3,220	393	441	283	290E	422
20	717	614	522	474	464	3,020	3,230	364	417	283	290E	427
21	709	609	519	474	460	3,170	3,220	347	394	277	294	500
22	702	605	519	480	458	3,260	3,220	362	370	304	359	563
23	697	602	511	478	454	3,300	3,120	483	443	321	422	565
24	746	601	505	476	453	3,330	2,720	492	435	329	410	560
25	741	598	506	486	465	3,360	2,440	458	417	359	379	628
26	735	597	505	486	406	3,370	2,330	466	357	401	324	887
27	741	596	505	492	392	3,390	2,130	446	329	398	310	1,060
28	752	590	492	494	386	3,450	1,690	438	297	379	275	1,020
29	759	584	500	481	-----	3,580	1,210	433	292	320	262	986
30	753	581	508	482	-----	3,540	900	424	316	357	265	991
31	786	-----	503	482	-----	3,470	-----	422	-----	403	280	-----
TOTAL	23,571	19,105	16,500	14,823	12,910	65,830	93,880	13,842	15,905	10,241	10,258	15,128
MEAN	760	637	532	478	461	2,124	3,129	447	530	330	331	504
MAX	1,120	763	579	506	487	3,580	3,840	648	863	403	422	1,060
MIN	648	581	492	424	386	390	900	347	292	259	262	284
AC-FT	46,750	37,890	32,730	29,400	25,610	130,600	186,200	27,460	31,550	20,310	20,350	30,010
CAL YEAR 1997 TOTAL		470,962	MEAN	1,290	MAX	5,260	MIN	357	AC-FT	934,200		
WTR YEAR 1998 TOTAL		311,993	MEAN	855	MAX	3,640	MIN	259	AC-FT	618,800		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

TUB SPRINGS near Scottsbluff, 06680000 - 1998

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

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

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

PERIOD OF RECORD.--1948 - present

REMARKS.--Published by United States Geological Survey from 1948 - 1979. Records are good, except estimated records are 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 258 cubic feet per second June 23, gage height 2.00 feet; minimum daily discharge 20 cubic feet per second March 24-27, April 21, 22.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	52	40	29	30	25	26	36	41	34	59	45
2	59	50	39	29	29	24	26	63	43	28	56	50
3	56	46	39	29	29	24	26	56	45	34	51	56
4	56	45	39	29	29	24	25	59	56	34	55	56
5	56	49	38	29	28	24	25	64	65	31	57	54
6	56	52	38	29	28	24	26	67	74	35	42	49
7	56	50	38	29	29	24	28	55	69	32	37	53
8	57	49	38	29	28	24	25	53	70	43	38	55
9	59	50	38	29	28	23	24	46	64	41	38	61
10	59	49	38	29	28	24	22	43	61	40	39	65
11	59	48	38	30	28	23	22	45	62	29	46	65
12	57	48	37	29	28	24	22	46	61	28	41	64
13	54	48	37	29	27	24	21	43	62	21	41	59
14	58	46	37	29	27	24	24	39	64	23	32	58
15	58	45	37	29	27	24	23	43	63	25	41	58
16	59	46	35	29	27	24	22	42	68	27	41	61
17	59	46	35	29	27	23	21	41	58	28	30	62
18	59	46	35	30	27	23	21	41	50	25	32	56
19	56	47	35	30	25	23	21	35	44	24	34	52
20	56	46	35	30	25	23	21	37	41	25	32	52
21	55	45	35	30	25	22	20	57	39	25	32	62
22	55	44	35	30	25	22	20	51	45	29	53	63
23	55	43	35	30	26	21	21	52	55	30	58	64
24	59	43	35	30	25E	20	21	53	40	39	58	63
25	57	42	35	29	24E	20	22	44	36	44	51	80
26	56	40	35	29	24E	20	22	41	31	43	40	98
27	56	40	32	29	24	20	22	39	31	37	36	104
28	56	40	29	29	25	23	22	37	34	36	38	97
29	56	40	29	30	-----	31	23	42	38	39	40	92
30	55	40	29	29	-----	27	23	40	32	49	39	54
31	54	-----	29	29	-----	26	-----	38	-----	59	42	-----
TOTAL	1,798	1,375	1,104	908	752	727	687	1,448	1,542	1,037	1,329	1,908
MEAN	58.0	45.8	35.6	29.3	26.9	23.5	22.9	46.7	51.4	33.5	42.9	63.6
MAX	95	52	40	30	30	31	28	67	74	59	59	104
MIN	54	40	29	29	24	20	20	35	31	21	30	45
AC-FT	3,570	2,730	2,190	1,800	1,490	1,440	1,360	2,870	3,060	2,060	2,640	3,780
CAL YEAR 1997 TOTAL		16,355	MEAN	44.8	MAX	143	MIN	19	AC-FT	32,440		
WTR YEAR 1998 TOTAL		14,615	MEAN	40.0	MAX	104	MIN	20	AC-FT	28,990		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

WINTERS CREEK CANAL from North Platte River, 00148000 - 1998

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

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

PERIOD OF RECORD.--1916, 1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0						0	7.8	20	24	26	23
2	0						0	12	20	25	27	23
3	0						0	12	20	27	26	23
4	0						0	14	20	27	26	24
5	0						0	19	20	27	26	24
6	0						0	18	21	27	26	24
7	0						0	16	23	27	25	24
8	0						0	19	23	27	25	22
9	0						0	20	23	28	25	21
10	0						0	20	23	28	26	21
11	0						0	21	23	28	26	21
12	0						0	20	23	28	26	20
13	0						0	19	22	28	26	19
14	0						0	19	22	28	25	17
15	0						0	18	20	27	25	15
16	0						0	19	19	27	25	15
17	0						0	19	18	27	24	15
18	0						0	19	17	28	24	15
19	0						0	19	17	28	24	14
20	0						0	19	17	28	24	14
21	0						0	20	17	28	24	14
22	0						0	21	18	28	25	15
23	0						0	21	19	29	27	15
24	0						0	22	19	28	26	15
25	0						0	21	19	29	26	15
26	0						0	21	18	29	25	15
27	0						0	21	19	29	25	2.9
28	0						0	21	19	29	25	0
29	0				-----		0	21	21	29	24	0
30	0				-----		0	20	23	29	23	0
31	0	-----			-----		-----	20	-----	28	23	-----
TOTAL	1.0						0	578.8	603	859	780	485.9
MEAN	.032						0	18.7	20.1	27.7	25.2	16.2
MAX	1.0						0	22	23	29	27	24
MIN	0						0	7.8	17	24	23	0
AC-FT	2.0						0	1,150	1,200	1,700	1,550	964
CAL YEAR 1997	MAX	35	MIN	0	AC-FT	5,350						
WTR YEAR 1998	MAX	29	MIN	0	AC-FT	6,560						

NORTH PLATTE RIVER BASIN

WINTERS CREEK CANAL from Winters Creek, 00149000 - 1998

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

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

PERIOD OF RECORD.--1919 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3						0	0	23	39	46	15
2	0						0	0	22	39	45	29
3	0						0	0	22	0	45	33
4	0						0	7.3	23	0	47	36
5	0						0	13	20	28	47	35
6	0						0	14	23	46	47	35
7	0						0	17	21	46	49	36
8	0						0	23	13	1.6	48	32
9	0						0	22	12	0	46	30
10	0						0	22	16	0	49	29
11	0						0	22	18	26	53	26
12	0						0	23	18	36	53	24
13	0						0	23	17	45	51	28
14	0						0	23	17	45	53	29
15	0						0	25	17	47	53	26
16	0						0	27	18	51	53	25
17	0						0	26	12	52	53	26
18	0						0	26	2.7	55	50	25
19	0						0	26	2.6	54	48	25
20	0						0	28	2.8	54	49	25
21	0						0	17	2.8	55	51	25
22	0						0	3.3	15	57	48	30
23	0						0	2.9	25	56	46	28
24	0						0	2.8	25	54	46	23
25	0						0	19	26	55	45	23
26	0						0	29	26	55	43	24
27	0						0	29	25	57	45	25
28	0						0	29	27	56	46	11
29	0				-----		0	28	27	56	31	0
30	0				-----		0	25	28	55	3.3	0
31	0	-----			-----		-----	23	-----	48	3.1	-----
TOTAL	4.3						0	575.3	546.9	1,268.6	1,392.4	758
MEAN	.14						0	18.6	18.2	40.9	44.9	25.3
MAX	4.3						0	29	28	57	53	36
MIN	0						0	0	2.6	0	3.1	0
AC-FT	8.5						0	1,140	1,080	2,520	2,760	1,500
CAL YEAR 1997	MAX	53	MIN	0	AC-FT	6,800						
WTR YEAR 1998	MAX	57	MIN	0	AC-FT	9,020						

NORTH PLATTE RIVER BASIN

CENTRAL CANAL from North Platte River, 00022000 - 1998

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

GAGE.--Continuous stage recorder and concrete box

PERIOD OF RECORD.--1919 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8							0	19	29	32	28
2	4.5							0	20	27	31	28
3	3.3							0	20	32	30	28
4	2.7							.84	20	33	30	28
5	2.1							3.8	19	32	31	28
6	1.3							1.6	18	33	25	25
7	.38							2.2	19	31	25	24
8	0							4.0	9.1	14	29	25
9	0							7.2	0	21	29	26
10	0							9.8	0	32	30	26
11	0							19	0	31	30	26
12	0							29	0	33	29	25
13	0							29	0	31	27	26
14	0							28	12	31	29	26
15	0							27	19	30	31	27
16	0							14	14	31	31	21
17	0							17	12	33	30	16
18	0							16	14	34	29	16
19	0							15	15	34	30	16
20	0							13	15	34	31	16
21	0							7.2	15	33	31	9.3
22	0							0	15	33	33	3.2
23	0							0	20	32	30	1.9
24	0							0	20	32	30	0
25	0							12	19	30	30	0
26	0							14	16	29	29	0
27	0							11	19	36	28	0
28	0							19	22	35	28	0
29	0				-----			19	22	34	29	0
30	0				-----			17	24	35	29	0
31	0	-----			-----		-----	18	-----	32	29	-----
TOTAL	21.08							353.64	437.1	967	915	495.4
MEAN	.68							11.4	14.6	31.2	29.5	16.5
MAX	6.8							29	24	36	33	28
MIN	0							0	0	14	25	0
AC-FT	42							701	867	1,920	1,810	983
CAL YEAR 1997	MAX	37	MIN	0	AG-FT	6,340						
WTR YEAR 1998	MAX	36	MIN	0	AC-FT	6,330						

NORTH PLATTE RIVER BASIN

WINTERS CREEK near Scottsbluff, 06681000 - 1998

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

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

PERIOD OF RECORD.--1931 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 712 cubic feet per second July 7, gage height 7.34 feet; minimum daily discharge 29 cubic feet per second July 20.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	60	48	40	34	33	31	105	47	30	56	92
2	69	59	47	40	35	33	31	115	42	63	57	78
3	68	58	45	40	35	33	31	142	45	139	60	80
4	67	57	45	40	36	33	31	75	45	147	59	74
5	66	55	44	39	36	33	31	45	40	108	54	76
6	65	55	44	39	37	34	31	45	55	82	48	79
7	65	55	43	40	37	35	35	41	60	165	44	86
8	65	58	43	39	36	34	32	36	44	207	43	90
9	65	57	44	37	36	34	33	36	42	169	43	89
10	64	57	44	36	35	35	31	35	41	154	50	91
11	66	55	43	36	35	35	34	37	39	108	56	96
12	68	55	44	36	36	34	35	36	38	92	56	108
13	66	54	45	36	35	34	36	33	37	63	50	132
14	64	53	45	36	35	33	39	29	38	46	51	147
15	63	53	44	36	35	33	38	34	37	42	48	136
16	63	52	43	36	36	33	37	33	34	38	41	129
17	63	51	44	37	36	33	39	30	50	37	38	134
18	62	50	42	37	37	33	39	31	58	34	41	131
19	62	50	42	37	35	33	39	30	58	30	46	132
20	62	50	42	36	35	33	38	32	57	29	48	133
21	61	48	43	35	35	32	38	78	57	30	52	135
22	66	48	42	36	35	32	38	105	39	35	58	145
23	66	47	42	35	34	32	37	75	36	36	61	163
24	66	47	41	35	33	33	37	66	40	36	60	167
25	62	47	41	34	35	33	37	45	41	39	56	161
26	61	48	41	34	35	32	37	42	63	56	53	108
27	60	48	41	34	33	31	37	39	64	46	55	77
28	60	48	41	34	34	32	65	36	42	37	56	79
29	59	48	41	34	-----	33	102	36	41	34	75	87
30	58	48	41	34	-----	31	105	41	34	46	138	77
31	60	-----	41	33	-----	31	-----	45	-----	60	127	-----
TOTAL	1,985	1,571	1,336	1,131	986	1,023	1,224	1,608	1,364	2,238	1,780	3,312
MEAN	64.0	52.4	43.1	36.5	35.2	33.0	40.8	51.9	45.5	72.2	57.4	110
MAX	73	60	48	40	37	35	105	142	64	207	138	167
MIN	58	47	41	33	33	31	31	29	34	29	38	74
AC-FT	3,940	3,120	2,650	2,240	1,960	2,030	2,430	3,190	2,710	4,440	3,530	6,570
CAL YEAR 1997 TOTAL		20,999	MEAN	57.5	MAX	258	MIN	10	AC-FT	41,650		
WTR YEAR 1998 TOTAL		19,558	MEAN	53.6	MAX	207	MIN	29	AC-FT	38,790		

NORTH PLATTE RIVER BASIN

MINATARE CANAL from North Platte River, 00099000 - 1998

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

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

PERIOD OF RECORD.--1919 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22						0	32	40	50	96	65
2	18						0	27	39	59	92	61
3	17						0	20	39	58	88	56
4	14						0	13	40	60	88	54
5	13						0	12	42	63	88	54
6	14						0	24	42	67	86	54
7	15						0	39	39	75	82	54
8	14						0	43	33	81	82	49
9	13						0	45	34	80	82	44
10	13						0	44	34	79	80	49
11	12						0	45	32	81	80	53
12	12						0	43	30	84	82	52
13	13						0	45	30	78	79	52
14	14						0	45	29	77	83	52
15	15						0	44	29	81	88	50
16	15						0	41	28	91	89	40
17	16						0	41	27	91	90	37
18	9.4						0	41	25	91	92	37
19	0						0	42	27	91	96	38
20	0						0	44	27	91	93	38
21	0						0	44	25	92	90	39
22	0						19	42	27	93	87	40
23	0						21	43	32	94	86	37
24	0						24	44	34	94	81	34
25	0						25	43	35	90	76	38
26	0						25	42	35	84	74	42
27	0						39	39	33	82	78	41
28	0						41	42	35	81	78	41
29	0				-----		35	44	44	85	78	40
30	0				-----		34	43	46	94	77	40
31	0	-----			-----		-----	42	-----	96	71	-----
TOTAL	259.4						263	1,198	1,012	2,513	2,612	1,381
MEAN	8.37						8.77	38.6	33.7	81.1	84.3	46.0
MAX	22						41	45	46	96	96	65
MIN	0						0	12	25	50	71	34
AC-FT	515						522	2,380	2,010	4,980	5,180	2,740
CAL YEAR 1997	MAX	116	MIN	0	AC-FT	15,630						
WTR YEAR 1998	MAX	96	MIN	0	AC-FT	18,320						

NORTH PLATTE RIVER BASIN

GERING CREEK near Gering, 06681500 - 1998

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

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

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

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

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 1,030 cubic feet per second July 7, gage height 6.78 feet; minimum daily discharge 19 cubic feet per second April 5.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	31	25	26	22	23	24	38	194	96	167	166
2	52	30	25	25	22	22	22	38	199	111	166	168
3	51	29	25	25	22	22	26	39	196	103	172	181
4	50	30	26	24	21	23	23	59	204	88	184	180
5	48	28	25	24	21	22	19	135	199	79	178	180
6	47	28	25	24	21	22	21	186	199	74	163	190
7	47	28	26	23	22	22	25	133	199	170	135	185
8	47	29	25	23	22	21	22	149	222	209	123	191
9	46	31	24	23	22	21	22	122	212	172	124	214
10	46	29	24	23	22	22	25	194	228	163	130	218
11	46	29	23	23	22	23	27	224	225	228	127	219
12	64	29	23	23	22	22E	29	174	196	218	126	215
13	62	29	24	24	22	21E	31	128	193	174	121	217
14	49	29	25	24	22	21	37	123	193	151	120	222
15	34	28	25	24	22	20	36	135	193	138	137	239
16	31	29	25	24	23	20	35	133	199	145	127	243
17	31	29	25	25	23	22	36	125	209	122	129	242
18	31	30	25	24	22	23	37	118	210	118	133	239
19	30	29	25	24	22	22	38	107	198	115	132	237
20	31	29	25	24	22	21	38	98	197	108	121	229
21	31	29	24	23	22	22	39	123	196	108	125	235
22	30	27	24	23	22	21	38	148	187	113	142	231
23	29	27	24	23	22	20	36	148	211	116	154	221
24	36	27	24	23	22	20	38	146	173	115	152	229
25	30	27	25	22	25	20	37	157	155	192	149	218
26	30	27	24	22	22	21	36	162	149	170	148	168
27	32	27	25	22	23	23	36	152	153	139	144	116
28	32	26	24	22	23	22	37	172	131	127	145	79
29	32	26	25	21	-----	25	37	181	126	178	149	72
30	35	26	25	21	-----	25	38	188	120	178	162	72
31	33	-----	25	21	-----	25	-----	184	-----	172	168	-----
TOTAL	1,246	852	764	722	620	679	945	4,219	5,666	4,390	4,453	5,816
MEAN	40.2	28.4	24.6	23.3	22.1	21.9	31.5	136	189	142	144	194
MAX	64	31	26	26	25	25	39	224	228	228	184	243
MIN	29	26	23	21	21	20	19	38	120	74	120	72
AC-FT	2,470	1,690	1,520	1,430	1,230	1,350	1,870	8,370	11,240	8,710	8,830	11,540
CAL YEAR 1997 TOTAL		26,154	MEAN	71.7	MAX	953	MIN	18	AC-FT	51,880		
WTR YEAR 1998 TOTAL		30,372	MEAN	83.2	MAX	243	MIN	19	AC-FT	60,240		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

CASTLE ROCK - STEAMBOAT CANAL from North Platte River, 00021000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1916, 1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57							28	30	75	80	81
2	57							29	28	81	80	79
3	57							28	27	89	80	76
4	56							37	30	88	81	84
5	55							56	34	86	82	85
6												
7	54							61	33	88	79	84
8	53							67	32	88	81	84
9	52							80	33	80	84	83
10	49							79	33	76	86	79
11								75	31	88	85	76
12	39											
13	35							62	29	83	88	77
14	28							60	26	74	92	77
15	14						0	62	28	81	89	77
16	0						0	60	30	78	89	69
17	0						0	54	33	81	90	69
18	0						0					
19	0						0	51	33	81	86	60
20	0						0	50	37	78	82	60
21	0						0	50	38	85	82	61
22	0						0	48	37	87	85	50
23	0						0	49	37	88	84	57
24	0						0					
25	0						0	48	36	86	85	63
26	0						0	52	37	91	94	58
27	0						0	60	41	94	101	59
28	0						0	61	49	89	92	56
29	0						0	61	49	91	86	55
30	0						0					
31	0	-----			-----		-----	61	50	87	84	55
								0	61	76	80	55
							12	60	69	86	85	56
					-----		25	46	71	87	86	53
					-----		25	35	76	83	86	43
					-----		-----	33	-----	85	84	-----
TOTAL	658						62	1,664	1,180	2,610	2,648	2,023
MEAN	21.2						3.44	53.7	39.3	84.2	85.4	67.4
MAX	57						25	80	76	94	101	85
MIN	0						0	28	27	74	79	43
AC-FT	1,310						123	3,300	2,340	5,180	5,250	4,010
CAL YEAR 1997	MAX	101	MIN	0	AC-FT	20,930						
WTR YEAR 1998	MAX	101	MIN	0	AC-FT	21,510						

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER near Minatare, 06682000 - 1998

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

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

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Records are good, except estimated records are 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 4,200 cubic feet per second April 8, combined channel discharge; minimum daily discharge 368 cubic feet per second July 21, combined channel discharge.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,360	1,090	876	751	675	582E	3,870	1,220	757	527	795	578
2	1,360	1,050	873	756	677	579	3,860	1,040	756	527	764	592
3	1,340	1,020	866	747	678	588	3,850	925	765	619	724	614
4	1,310	1,010	857	733	675	603	3,850	788	799	618	697	612
5	1,270	997	844	730	666	592	3,850	726	811	616	720	600
6	1,180	995	836	724	668	588	3,860	916	836	580	707	605
7	1,130	994	835	730	664	565	4,070	905	1,070	601	615	640
8	1,120	985	844	734	672	547E	4,100	867	1,210	900	546	694
9	1,110	978	849	725	674	655E	3,970	826	1,240	785	516	745
10	1,110	970	839	702E	675	1,030E	3,980	818	1,240	747	509	793
11	1,120	958	815	696E	675	1,460E	3,980	1,010	1,220	687	513	807
12	1,070	946	810	705E	674	1,700E	3,960	883	1,180	689	563	799
13	1,050	939	808	673E	677	1,870	3,920	791	1,140	567	512	830
14	1,060	914	815	655E	682	2,080	3,970	721	1,120	501	495	861
15	1,060	900E	817	696	680	2,340	4,060	722	1,110	437	505	892
16	1,050	915	812	690	689	2,580	3,950	731	1,080	431	484	904
17	1,050	906	806	683	694	2,860	3,700	719	982	411	458	936
18	1,050	900	805	685	698	3,100	3,630	707	914	402	447	939
19	1,050	904	799	689	691	3,260	3,600	692	863	390	466	931
20	1,050	898	794	687	670	3,360	3,540	670	806	380	449	920
21	1,050	899	792	683	637	3,490	3,540	697	778	368	441	984
22	1,040	890	782	680	648	3,600	3,520	790	759	402	527	1,080
23	1,030	879	779	676	649	3,660	3,530	768	838	438	654	1,130
24	1,090	885	769	678	662	3,720	3,280	830	815	465	685	1,150
25	1,080	879	761	688	658E	3,770	2,930	780	774	548	662	1,140
26	1,060	877	756	694	628E	3,760	2,780	753	704	734	628	1,250
27	1,060	884	751	691	596E	3,790	2,670	735	651	661	562	1,390
28	1,070	883	729E	694	582E	3,830	2,280	729	578	602	518	1,400
29	1,080	880	745	694	-----	4,000	1,890	758	556	589	496	1,350
30	1,070	873	749	688	-----	4,010	1,480	759	594	708	567	1,340
31	1,080	-----	748	674	-----	3,900	-----	746	-----	794	602	-----
TOTAL	34,610	28,098	24,961	21,731	18,614	72,469	105,470	25,022	26,946	17,724	17,827	27,506
MEAN	1,116	937	805	701	665	2,338	3,516	807	898	572	575	917
MAX	1,360	1,090	876	756	698	4,010	4,100	1,220	1,240	900	795	1,400
MIN	1,030	873	729	655	582	547	1,480	670	556	368	441	578
AC-FT	68,650	55,730	49,510	43,100	36,920	143,700	209,200	49,630	53,450	35,160	35,360	54,560
CAL YEAR 1997 TOTAL		576,867	MEAN	1,580	MAX	6,080	MIN	557	AC-FT	1,144,000		
WTR YEAR 1998 TOTAL		420,978	MEAN	1,153	MAX	4,100	MIN	368	AC-FT	835,000		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

NINE MILE CANAL from North Platte River, 00106000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1916 - 1919, 1921 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18						0	13	12	25	23	27
2	18						0	16	14	26	17	27
3	19						0	26	15	28	18	22
4	24						0	21	17	26	21	18
5	28						0	18	16	23	22	17
6	27						0	29	17	31	27	17
7	22						0	30	18	31	25	18
8	11						0	30	16	49	25	18
9	9.5						0	30	17	36	25	18
10	8.6						0	27	15	31	27	17
11	6.8						0	32	14	29	30	17
12	.10						0	27	17	32	32	19
13	0						0	24	18	30	33	20
14	0						0	19	16	26	35	20
15	0						0	17	15	22	37	19
16	0						0	19	16	22	37	19
17	0						0	18	14	22	36	22
18	0						0	15	9.6	28	30	21
19	0						0	5.4	11	29	25	22
20	0						0	.04	17	26	26	24
21	0						0	0	15	21	30	25
22	0						0	2.8	13	21	35	26
23	0						0	8.7	15	22	41	27
24	0						0	9.5	17	21	43	28
25	0						0	7.1	13	22	36	28
26	0						0	.62	7.6	24	27	28
27	0						15	3.1	3.0	23	26	29
28	0						17	18	.50	24	24	31
29	0				-----		15	24	6.3	20	21	30
30	0				-----		18	13	25	14	26	25
31	0	-----			-----		-----	11	-----	15	27	-----
TOTAL	192.00						65	514.26	420.00	799	887	679
MEAN	6.19						2.17	16.6	14.0	25.8	28.6	22.6
MAX	28						18	32	25	49	43	31
MIN	0						0	0	.50	14	17	17
AC-FT	381						129	1,020	833	1,580	1,760	1,350
CAL YEAR 1997	MAX	49	MIN	0	AC-FT	6,110						
WTR YEAR 1998	MAX	49	MIN	0	AC-FT	7,050						

NORTH PLATTE RIVER BASIN

NINE MILE CANAL from Ninemile Creek, 00106100 - 1998

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1988 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48						0	43	54	46	47	53
2	49						0	45	55	47	49	54
3	50						0	44	41	49	49	55
4	51						0	43	30	51	47	55
5	53						0	40	28	50	49	55
6	53						0	35	28	54	52	55
7	49						0	41	28	52	56	55
8	29						0	40	28	57	51	56
9	19						0	36	27	52	46	57
10	18						0	42	26	56	46	58
11	15						0	42	25	58	48	55
12	2.4						0	44	21	57	50	54
13	0						4.1	43	21	58	50	56
14	0						9.4	44	21	59	50	56
15	0						9.3	45	24	54	52	57
16	0						15	51	26	55	52	56
17	0						28	51	23	56	52	51
18	0						29	50	20	56	48	40
19	0						26	49	22	55	48	42
20	0						23	49	26	55	51	43
21	0						25	39	25	57	52	41
22	0						27	40	24	53	54	46
23	0						28	49	25	44	55	45
24	0						28	53	28	49	49	42
25	0						28	52	33	51	48	34
26	0						28	51	39	53	48	41
27	0						29	47	40	52	49	42
28	0						37	46	44	52	50	40
29	0				-----		39	44	46	50	51	38
30	0				-----		37	43	46	46	52	40
31	0	-----			-----		-----	48	-----	47	54	-----
TOTAL	436.4						449.8	1,389	924	1,631	1,555	1,472
MEAN	14.1						15.0	44.8	30.8	52.6	50.2	49.1
MAX	53						39	53	55	59	56	58
MIN	0						0	35	20	44	46	34
AC-FT	866						892	2,760	1,830	3,240	3,080	2,920
CAL YEAR 1997	MAX	70	MIN	0	AC-FT	15,920						
WTR YEAR 1998	MAX	59	MIN	0	AC-FT	15,580						

NORTH PLATTE RIVER BASIN

NINE MILE CREEK near McGrew, 06682500 - 1998

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

PERIOD OF RECORD.--1932 - present

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

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1470 cubic feet per second, May 24, 1987, gage height 6.69 feet; minimum daily discharge 38 cubic feet per second, June 25 - 26, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge 277 cubic feet per second July 8, gage height 3.44 feet; minimum daily discharge 28 cubic feet per second April 17-18, 23-26.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	118	93	76	66	67	59	81	75	53	178	162
2	112	116	93	76	65	67	59	88	79	53	183	160
3	111	114	91	73	66	67	58	90	89	77	180	158
4	107	114	89	73	66	67	58	83	102	59	178	161
5	103	112	87	73	65	66	58	73	104	74	176	158
6	104	109	87	72	66	66	58	45	100	83	168	162
7	110	109	87	73	65	66	60	56	101	97	166	170
8	118	106	87	72	65	64	57	77	97	169	156	175
9	123	106	86	70	66	64	52	89	74	172	151	181
10	122	104	86	69	66	63	44	86	69	146	147	194
11	124	102	86	69	65	63	49	73	71	117	148	170
12	136	101	85	67	65	64	50	55	74	121	143	159
13	136	101	84	68	65	64	47	63	71	117	143	169
14	137	97	84	69	66	63	44	60	70	119	144	179
15	135	97	84	69	66	62	44	63	65	93	152	188
16	138	99	82	68	68	62	40	85	60	94	154	193
17	131	99	82	68	67	62	28	85	63	93	158	207
18	128	100	81	68	67	61	28	78	63	97	160	211
19	125	99	79	67	67	61	29	63	56	100	152	204
20	123	99	78	67	68	61	32	65	80	105	151	208
21	123	99	79	66	68	60	31	118	73	106	152	234
22	121	97	80	66	68	60	29	128	52	112	171	251
23	121	97	78	66	68	57	28	109	75	118	184	251
24	130	98	79	66	69	50	28	89	114	123	193	245
25	117	98	77	67	72	48	28	73	83	127	190	239
26	119	96	77	67	70	54	28	77	55	134	184	212
27	122	96	77	66	68	57	30	84	60	132	182	195
28	124	95	76	63	68	59	44	81	45	135	177	164
29	122	94	77	63	-----	61	80	81	45	144	167	136
30	124	94	76	64	-----	60	80	84	48	161	161	125
31	122	-----	75	66	-----	59	-----	75	-----	167	163	-----
TOTAL	3,777	3,066	2,562	2,127	1,871	1,905	1,360	2,457	2,213	3,498	5,112	5,621
MEAN	122	102	82.6	68.6	66.8	61.5	45.3	79.3	73.8	113	165	187
MAX	138	118	93	76	72	67	80	128	114	172	193	251
MIN	103	94	75	63	65	48	28	45	45	53	143	125
AC-FT	7,490	6,080	5,080	4,220	3,710	3,780	2,700	4,870	4,390	6,940	10,140	11,150
CAL YEAR 1997	TOTAL	40,224	MEAN	110	MAX	571	MIN	27	AC-FT	79,780		
WTR YEAR 1998	TOTAL	35,569	MEAN	97.4	MAX	251	MIN	28	AC-FT	70,550		

NORTH PLATTE RIVER BASIN

SHORT LINE CANAL from North Platte River, 00133000 - 1998

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1916, 1920 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17						0	37	19	44	34	29
2	13						0	20	22	39	33	30
3	13						0	0	25	33	32	31
4	12						0	0	24	31	31	31
5	12						0	26	22	41	31	31
6	12						0	24	21	39	30	32
7	4.5						0	37	21	32	30	27
8	0						0	57	20	32	44	24
9	0						0	57	26	29	38	24
10	0						0	54	35	30	37	39
11	0						0	48	31	30	36	38
12	0						0	40	25	28	35	31
13	0						0	50	24	34	35	33
14	0						0	47	23	38	34	33
15	0						0	49	24	32	37	24
16	0						0	56	36	36	38	25
17	0						0	53	38	37	38	29
18	0						0	39	38	37	32	26
19	0						0	34	25	36	21	22
20	0						0	42	23	36	24	23
21	0						0	60	20	38	25	25
22	0						0	44	22	46	28	26
23	0						0	28	39	45	30	21
24	0						0	24	40	44	31	17
25	0						6.5	19	29	39	31	17
26	0						17	26	34	37	31	16
27	0						25	29	31	31	31	15
28	0						25	23	28	30	30	13
29	0						0	22	34	34	28	14
30	0						17	21	41	37	27	14
31	0	-----			-----		-----	18	-----	34	28	-----
TOTAL	83.5						90.5	1,084	840	1,109	990	760
MEAN	2.69						3.02	35.0	28.0	35.8	31.9	25.3
MAX	17						25	60	41	46	44	39
MIN	0						0	0	19	28	21	13
AC-FT	166						180	2,150	1,670	2,200	1,960	1,510
CAL YEAR 1997	MAX	68	MIN	0	AC-FT	6,570						
WTR YEAR 1998	MAX	60	MIN	0	AC-FT	9,830						

NORTH PLATTE RIVER BASIN

CHIMNEY ROCK CANAL from North Platte River, 00024000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1916 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31							4.1	56	67	66	80
2	41							19	57	68	62	79
3	31							26	58	68	60	77
4	29							21	60	67	58	76
5	27							13	59	66	57	76
6	26							31	58	65	56	75
7	25							45	63	60	56	72
8	27							42	51	58	57	72
9	27							42	56	64	67	60
10	27							27	56	66	67	53
11	23							40	50	64	67	50
12	18							39	52	64	71	49
13	17							43	53	67	74	57
14	23							48	53	66	73	62
15	14							53	52	66	74	62
16	0							59	48	66	74	60
17	0							58	45	66	78	60
18	0							62	41	67	80	60
19	0							58	49	67	80	59
20	0							56	49	70	79	58
21	0							65	48	75	78	51
22	0							70	52	75	82	47
23	0							63	47	79	78	47
24	0							62	46	78	78	45
25	0							60	54	79	80	42
26	0							58	57	79	79	40
27	0							58	51	72	77	41
28	0							57	55	69	78	42
29	0				-----			62	55	68	78	42
30	0				-----			59	58	69	79	42
31	0	-----			-----		-----	56	-----	69	74	-----
TOTAL	386							1,456.1	1,591	2,124	2,217	1,736
MEAN	12.5							47.0	53.0	68.5	71.5	57.9
MAX	41							70	63	79	82	80
MIN	0							4.1	41	58	56	40
AC-FT	766							2,890	3,160	4,210	4,400	3,440
CAL YEAR 1997	MAX	78	MIN	0	AC-FT	13,440						
WTR YEAR 1998	MAX	82	MIN	0	AC-FT	18,860						

NORTH PLATTE RIVER BASIN

BAYARD CREEK near Bayard, 06683000 - 1998

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

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

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

PERIOD OF RECORD.--1931 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 150 cubic feet per second June 17, gage height 2.39 feet; minimum daily discharge 2.4 cubic feet per second April 8-9.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	26	23	20	18	19	19	5.1	22	13	57	41
2	24	26	23	19	18	19	20	10	20	21	58	39
3	24	26	22	17	18	19	20	8.7	24	51	55	41
4	26	27	20	19	16	18	20	6.7	19	33	57	39
5	29	25	18	20	16	18	21	7.7	19	37	55	42
6	27	25	19	19	16	18	8.4	9.8	17	36	52	44
7	32	26	21	16	16	18	2.9	6.9	15	35	50	48
8	32	26	22	16	16	18	2.4	9.4	20	45	51	47
9	25	24	22	16	18	18	2.4	9.9	21	42	62	50
10	38	24	20	15	18	18	7.9	15	28	38	59	45
11	46	24	19	15	17	17	7.5	18	23	38	58	44
12	39	24	20	15	16	19	6.0	20	19	37	57	44
13	31	23	21	15	15	20	4.8	30	18	33	61	54
14	29	21	20	16	16	20	7.4	32	17	32	62	55
15	30	22	21	17	20	19	9.0	25	9.1	32	61	51
16	30	22	20	17	20	18	7.5	21	11	31	61	44
17	32	22	21	17	21	19	14	18	23	29	63	43
18	29	22	21	17	20	19	10	20	41	29	64	41
19	32	23	20	17	19	18	7.7	19	37	32	58	37
20	35	23	20	18	19	18	6.7	29	24	28	53	36
21	35	23	21	17	19	19	5.5	39	11	27	53	41
22	34	23	19	17	19	19	4.6	39	6.2	27	64	48
23	32	23	18	17	19	21	3.9	39	10	32	55	46
24	37	23	18	17	19	27	9.1	36	19	33	54	39
25	31	23	18	17	19	30	36	32	15	34	46	35
26	31	23	18	18	19	25	45	31	18	48	50	38
27	32	24	18	18	19	21	25	29	15	46	47	36
28	34	23	17	22	18	21	7.6	30	12	41	46	23
29	31	23	18	22	-----	20	5.0	29	13	41	46	19
30	30	23	18	22	-----	20	2.9	29	12	54	44	21
31	28	-----	18	18	-----	19	-----	24	-----	61	38	-----
TOTAL	974	712	614	546	504	612	349.2	678.2	558.3	1,116	1,697	1,231
MEAN	31.4	23.7	19.8	17.6	18.0	19.7	11.6	21.9	18.6	36.0	54.7	41.0
MAX	46	27	23	22	21	30	45	39	41	61	64	55
MIN	24	21	17	15	15	17	2.4	5.1	6.2	13	38	19
AC-FT	1,930	1,410	1,220	1,080	1,000	1,210	693	1,350	1,110	2,210	3,370	2,440
CAL YEAR 1997	TOTAL	11,621.3	MEAN	31.8	MAX	323	MIN	1.8	AC-FT	23,050		
WTR YEAR 1998	TOTAL	9,591.7	MEAN	26.3	MAX	64	MIN	2.4	AC-FT	19,030		

NORTH PLATTE RIVER BASIN

ALLIANCE CANAL from Bayard Creek, 00002000 - 1998

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

GAGE.--Continuous stage recorder and concrete box

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26						0	24	29	20	21	28
2	20						0	29	28	23	21	28
3	20						0	28	31	31	21	26
4	22						0	27	28	28	22	28
5	26						0	27	28	27	23	29
6	23						9.6	28	25	23	22	29
7	27						16	26	23	24	21	30
8	27						16	27	28	27	20	30
9	21						16	27	30	27	12	31
10	7.7						24	29	34	27	10	30
11	0						24	30	31	27	10	30
12	0						23	31	28	27	9.3	30
13	0						22	29	28	26	11	31
14	0						25	29	27	26	12	31
15	0						27	27	26	26	11	31
16	0						26	29	32	27	12	29
17	0						30	29	25	28	12	29
18	0						29	31	0	29	12	28
19	0						27	32	0	30	11	27
20	0						27	34	8.3	30	9.7	27
21	0						25	37	20	29	10	28
22	0						24	34	16	30	24	30
23	0						22	33	23	32	29	30
24	0						18	33	27	32	28	29
25	0						4.9	32	24	32	25	27
26	0						5.0	31	21	26	26	28
27	0						10	31	19	24	26	28
28	0						20	32	17	26	26	24
29	0				-----		17	32	19	25	26	23
30	0				-----		19	32	20	23	25	24
31	0	-----			-----		-----	30	-----	22	27	-----
TOTAL	219.7						506.5	930	695.3	834	575.0	855
MEAN	7.09						16.9	30.0	23.2	26.9	18.5	28.5
MAX	27						30	37	34	32	29	31
MIN	0						0	24	0	20	9.3	23
AC-FT	436						1,000	1,840	1,380	1,650	1,140	1,700
CAL YEAR 1997	MAX	45	MIN	0	AC-FT	7,200						
WTR YEAR 1998	MAX	37	MIN	0	AC-FT	9,150						

NORTH PLATTE RIVER BASIN

RED WILLOW CREEK near Bayard, 06684000 - 1998

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

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

PERIOD OF RECORD.--1931 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 340 cubic feet per second May 3, gage height 3.39 feet; minimum daily discharge, 46 cubic feet per second March 11.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	93	74	68	57	62	54	276	120	53	143	185E
2	118	88	74	68	57	61	54	305	124	51	149	186
3	121	87	73	66	57	61	53	331	121	107	150	192
4	119	87	73	66	56	62	53	217	114	125	186	186
5	113	86	74	64	56	59	53	140	119	136	192	170
6	115	85	74	63	56	59	56	126	122	118	201	176
7	111	85	74	63	56	59	63	157	131	126	183	203
8	109	84	75	63	55	57	59	181	130	160	168	237
9	104	83	75	62	56	56	60	180	108	150	165	252
10	100	83	75	61	55	55	57	179	94	105	167	234
11	95	80	75	61	55	46	53	189	86	102	141	260
12	91	80	75	60	55	55	51	187	71	99	113	203
13	91	79	75	60	55	57	53	158	70	85	105	202
14	92	78	76	60	56	56	56	139	69	75	111	236
15	92	78	75	60	57	56	55	119	72	74	119	230
16	91	77	76	60	59	57	53	104	76	70	127	229
17	95	77	76	60	59	56	54	124	89	67	126	239
18	97	76	75	59	60	56	61	126	99	68	115	235
19	95	76	74	59	60	56	76	108	137	69	107	231
20	93	76	74	59	61	56	69	126	164	73	90	231
21	93	76	73	59	61	55	73	175	135	76	88	241
22	93	76	72	59	62	55	83	185	157	82	133	249
23	92	75	71	58	62	55	78	164	191	88	138	249
24	97	75	70	58	64	55	77	149	194	95	154	228
25	94	75	70	58	65	57	67	134	139	112	152	222
26	93	76	69	58	67	59	60	137	96	153	155	225
27	94	76	69	58	64	54	57	155	94	139	156	219
28	97	75	68	58	62	55	63	149	94	135	167E	179
29	98	75	67	58	-----	55	97	143	123	126	170E	131
30	98	75	67	57	-----	54	258	129	81	128	175E	118
31	94	-----	68	57	-----	53	-----	114	-----	131	180E	-----
TOTAL	3,104	2,392	2,256	1,880	1,645	1,749	2,056	5,106	3,420	3,178	4,526	6,318
MEAN	100	79.7	72.8	60.6	58.8	56.4	68.5	165	114	103	146	211
MAX	121	93	76	68	67	62	258	331	194	160	201	252
MIN	91	75	67	57	55	46	51	104	69	51	88	118
AC-FT	6,160	4,740	4,470	3,730	3,260	3,470	4,080	10,130	6,780	6,300	8,980	12,530
CAL YEAR 1997 TOTAL		44,166	MEAN	121	MAX	757	MIN	54	AC-FT	87,600		
WTR YEAR 1998 TOTAL		37,630	MEAN	103	MAX	331	MIN	46	AC-FT	74,640		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

ALLIANCE CANAL from Red Willow Creek, 00003000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5							0	36	42	47	31
2	9.8							0	34	43	45	43
3	9.5							0	33	47	48	45
4	8.5							0	39	49	49	44
5	9.9							0	42	48	45	40
6	12							5.2	43	48	39	41
7	8.9							14	39	50	39	42
8	9.6							12	30	49	39	43
9	9.9							13	11	47	41	42
10	10							15	17	48	41	38
11	10							13	22	56	42	35
12	8.2							14	19	55	44	39
13	4.6							31	18	55	43	37
14	5.0							40	17	54	45	37
15	5.1							39	17	56	47	34
16	5.3							42	17	54	48	35
17	5.9							43	13	56	49	36
18	.50							38	0	55	47	35
19	0							43	0	55	49	33
20	0							37	0	53	46	33
21	0							12	0	54	46	31
22	0							29	0	55	46	32
23	0							33	0	55	45	30
24	0							34	10	54	45	29
25	0							37	29	53	43	29
26	0							39	31	45	44	31
27	0							35	41	45	44	27
28	0							40	44	43	45	21
29	0				-----			36	44	44	42	15
30	0				-----			33	39	44	37	19
31	0	-----			-----		-----	38	-----	45	14	-----
TOTAL	142.20							765.2	685	1,557	1,344	1,027
MEAN	4.59							24.7	22.8	50.2	43.4	34.2
MAX	12							43	44	56	49	45
MIN	0							0	0	42	14	15
AC-FT	282							1,520	1,360	3,090	2,670	2,040
CAL YEAR 1997	MAX	62	MIN	0	AC-FT	7,890						
WTR YEAR 1998	MAX	56	MIN	0	AC-FT	10,950						

NORTH PLATTE RIVER BASIN

BELMONT CANAL from North Platte River, 00009000 - 1998

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

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

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

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62						0	67	89	108	114	103
2	62						0	64	80	109	114	101
3	61						0	67	79	113	109	83
4	60						63	74	80	103	104	75
5	59						75	72	81	108	104	74
6	58						61	79	82	109	102	75
7	58						33	79	83	112	99	76
8	59						20	78	86	116	96	76
9	58						16	81	83	107	95	78
10	55						16	80	79	111	91	78
11	49						56	84	76	111	91	73
12	48						73	84	77	111	92	72
13	48						79	81	74	108	92	72
14	47						81	80	73	103	91	71
15	47						61	79	72	111	90	72
16	47						52	81	69	114	90	72
17	47						61	85	75	114	89	73
18	47						94	84	78	107	89	75
19	46						78	83	75	108	92	75
20	46						77	81	74	107	96	75
21	46						72	83	72	107	101	76
22	46						70	90	70	112	106	76
23	45						70	88	73	114	104	78
24	44						68	90	88	116	103	78
25	43						65	91	93	117	102	74
26	32						71	88	90	122	101	65
27	18						76	90	92	120	98	70
28	18						77	89	87	113	96	63
29	18				-----		74	89	96	111	99	61
30	18				-----		69	90	103	112	101	64
31	8.2	-----			-----		-----	90	-----	113	103	-----
TOTAL	1,400.2						1,708	2,541	2,429	3,457	3,054	2,254
MEAN	45.2						56.9	82.0	81.0	112	98.5	75.1
MAX	62						94	91	103	122	114	103
MIN	8.2						0	64	69	107	89	61
AC-FT	2,780						3,390	5,040	4,820	6,860	6,060	4,470
CAL YEAR 1997	MAX	123	MIN	0	AC-FT	31,040						
WTR YEAR 1998	MAX	122	MIN	0	AC-FT	33,410						

NORTH PLATTE RIVER BASIN

EMPIRE CANAL from North Platte River, 00039000 - 1998

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

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

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

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1							19	0	8.8	20	9.8
2	9.1							19	0	17	26	9.8
3	9.1							17	0	22	26	9.6
4	9.1							17	0	22	24	9.5
5	9.1							17	0	21	19	9.5
6	9.1							17	0	21	14	9.5
7	9.1							18	0	24	9.9	19
8	9.1							18	0	24	8.7	24
9	8.9							6.8	0	26	8.7	24
10	8.7							0	0	15	8.7	24
11	8.0							0	0	8.7	8.3	23
12	5.1							0	0	8.7	8.2	21
13	4.1							0	0	8.7	8.1	21
14	4.1							0	0	8.7	8.2	20
15	2.0							0	0	8.7	8.3	20
16	0							0	0	8.7	17	20
17	0							0	0	8.7	23	20
18	0							11	0	17	24	20
19	0							16	0	20	26	20
20	0							16	0	21	24	20
21	0							15	0	20	22	7.0
22	0							.19	0	20	14	0
23	0							0	0	21	10	0
24	0							0	0	22	9.9	0
25	0							0	0	21	9.8	0
26	0							0	9.1	22	9.7	14
27	0							0	11	14	9.7	23
28	0							0	8.5	9.5	9.7	24
29	0				-----			0	8.6	9.5	9.8	24
30	0				-----		15	0	8.7	9.5	9.8	10
31	0	-----			-----		-----	0	-----	9.5	9.8	-----
TOTAL	113.7						15	206.99	45.9	497.7	444.3	455.7
MEAN	3.67						15.0	6.68	1.53	16.1	14.3	15.2
MAX	9.1						15	19	11	26	26	24
MIN	0						15	0	0	8.7	8.1	0
AC-FT	226						30	411	91	987	881	904
CAL YEAR 1997	MAX	38	MIN	0	AC-FT	4,010						
WTR YEAR 1998	MAX	26	MIN	0	AC-FT	3,530						

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER at Bridgeport, 06684500 - 1998

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. Records are good, except estimated records are fair.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 4,490 cubic feet per second April 8, combined flow for both channels; minimum daily discharge 489 cubic feet per second July 22, combined flow for both channels.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,840	1,330	1,120	928	879	756	4,210	1,440	918	631	960	946
2	1,840	1,320	1,120	925	883	760	4,180	1,310	918	605	965	947
3	1,800	1,300	1,110	914	882	764	4,200	1,300E	913	697	969	977
4	1,740	1,300	1,100	905	883	771	4,160	1,180E	966	733	979	1,010
5	1,690	1,280	1,090	902	882	780	4,120	1,060	999	767	988	1,010
6	1,640	1,260	1,080	900	880	786	4,130	1,060	1,030	740	1,020	1,000
7	1,590	1,250	1,080	896	877	801	4,260	1,080	1,100	720	987	1,050
8	1,570	1,240	1,070	894	881	781	4,310	1,070	1,270	951	883	1,130
9	1,540	1,230	1,070	889	887	871	4,170	1,050	1,350	1,070	824	1,190
10	1,490E	1,220	1,060	862	892	1,080	4,040	1,050	1,310	977	816	1,240
11	1,460	1,210	1,050	864	888	1,460	3,980	1,140	1,310	885	785	1,200
12	1,420	1,190	1,030	853	884	1,800	3,900	1,130	1,280	874	787	1,200
13	1,390	1,180	1,030	850	877	2,030	3,830	1,030	1,240	790	775	1,240
14	1,360	1,150	1,020	869	873	2,210	3,860	954	1,220	708	743	1,270
15	1,330	1,140	1,030	870	871	2,440	4,010	911	1,210	644	746	1,290
16	1,310	1,140	1,020	873	872	2,700	3,980	904	1,180	602	757	1,300
17	1,300	1,130	1,010	872	870	2,980	3,670	910	1,160	580	757	1,340
18	1,300	1,140	1,000	876	864	3,200	3,510	906	1,100	554	738	1,350
19	1,290	1,140	995	874	854	3,390	3,480	860	1,110	533	758	1,370
20	1,280	1,140	986	875	844	3,570	3,460	831	1,150	529	762	1,340
21	1,280	1,130	983	872	840	3,770	3,410	910	1,110	508	735	1,430
22	1,280	1,130	975	873	834	3,970	3,380	1,030	1,080	489	801	1,600
23	1,280	1,130	966	872	824	3,970	3,330	1,020	1,060	503	893	1,730
24	1,310	1,130	962	874	819	3,900	3,150	1,050	1,130	524	970	1,770
25	1,330	1,130	956	876	828	3,970	2,770	1,050	1,080	568	966	1,830
26	1,310	1,120	949	881	811	3,980	2,440	1,010	965	728	960	1,880
27	1,330	1,120	946	883	788	4,000	2,310	1,010	905	763	917	1,960
28	1,350	1,120	933	880	758	4,040	2,140	960	803	743	891	2,090
29	1,340	1,120	930	885	-----	4,180	1,880	961	771	748	873	2,020
30	1,340	1,120	933	883	-----	4,300	1,630	938	681	807	904	2,010
31	1,330	-----	930	880	-----	4,240	-----	906	-----	923	976	-----
TOTAL	44,660	35,540	31,534	27,350	24,025	78,250	105,900	32,021	32,319	21,894	26,885	41,720
MEAN	1,441	1,185	1,017	882	858	2,524	3,530	1,033	1,077	706	867	1,391
MAX	1,840	1,330	1,120	928	892	4,300	4,310	1,440	1,350	1,070	1,020	2,090
MIN	1,280	1,120	930	850	758	756	1,630	831	681	489	735	946
AC-FT	88,580	70,490	62,550	54,250	47,650	155,200	210,100	63,510	64,100	43,430	53,330	82,750
CAL YEAR 1997 TOTAL		733,512	MEAN	2,010	MAX	8,450	MIN	660	AC-FT	1,455,000		
WTR YEAR 1998 TOTAL		502,098	MEAN	1,376	MAX	4,310	MIN	489	AC-FT	995,900		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

BROWNS CREEK CANAL from North Platte River, 00019000 - 1998

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

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

PERIOD OF RECORD.--1916 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29						0	2.4	41	73	92	63
2	28						0	28	32	83	92	67
3	28						0	28	31	84	93	67
4	28						0	23	31	84	83	53
5	26						0	37	31	89	79	45
6	16						0	42	28	93	73	47
7	13						0	42	28	91	70	51
8	12						0	32	28	85	57	49
9	12						0	31	26	71	58	45
10	11						0	25	23	90	52	48
11	11						0	37	24	89	56	46
12	10						0	36	21	87	56	42
13	9.9						0	36	18	92	49	39
14	9.6						0	38	18	93	49	35
15	3.6						0	37	17	92	52	37
16	0						0	36	17	92	55	41
17	0						0	35	16	91	58	41
18	0						0	37	14	95	65	39
19	0						0	30	14	96	74	36
20	0						0	19	15	95	78	34
21	0						0	23	19	95	82	36
22	0						0	35	26	98	79	39
23	0						0	36	22	95	73	39
24	0						0	30	26	94	68	35
25	0						0	39	31	97	64	31
26	0						0	47	32	98	67	27
27	0						0	48	36	93	65	25
28	0						0	47	49	96	65	25
29	0				-----		0	50	56	89	72	28
30	0				-----		0	47	63	97	70	27
31	0	-----			-----		-----	45	-----	94	67	-----
TOTAL	247.1						0	1,078.4	833	2,811	2,113	1,237
MEAN	7.97						0	34.8	27.8	90.7	68.2	41.2
MAX	29						0	50	63	98	93	67
MIN	0						0	2.4	14	71	49	25
AC-FT	490						0	2,140	1,650	5,580	4,190	2,450
CAL YEAR 1997	MAX	104	MIN	0	AC-FT	17,130						
WTR YEAR 1998	MAX	98	MIN	0	AC-FT	16,500						

NORTH PLATTE RIVER BASIN

COURTHOUSE ROCK CANAL from Pumpkin Creek, 00030000 - 1998

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

GAGE.--Continuous stage recorder and concrete box

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	0	2.8	2.4	0
2							0	0	0	2.6	2.3	0
3							0	0	0	2.6	2.4	0
4							0	0	0	2.5	2.4	0
5							0	0	0	2.4	2.4	0
6							0	0	0	2.4	2.3	0
7							0	0	0	2.5	2.3	0
8							0	0	0	2.7	2.3	0
9							0	0	0	2.5	2.2	0
10							0	0	0	2.5	2.2	0
11							0	0	0	2.4	2.3	0
12							0	0	0	2.4	2.3	0
13							0	0	0	2.4	2.4	0
14							0	0	0	2.4	2.3	0
15							0	0	0	1.0	2.3	0
16							0	0	0	.59	2.4	0
17							0	0	0	1.8	2.3	.88
18							0	0	0	1.9	2.4	1.2
19							0	0	0	2.0	2.3	1.2
20							0	0	0	2.0	2.3	1.1
21							0	0	0	2.0	2.3	1.2
22							0	0	.70	1.7	2.4	.53
23							0	0	3.0	0	2.3	0
24							0	0	3.2	0	2.2	0
25							0	0	3.2	1.2	2.3	0
26							0	0	3.0	2.3	2.4	0
27							0	0	2.9	2.4	2.4	0
28							0	0	2.8	2.3	1.1	0
29					-----		0	0	2.7	2.5	0	0
30					-----		0	0	2.6	2.5	0	0
31		-----			-----		-----	0	-----	2.4	0	-----
TOTAL							0	0	24.10	63.69	63.9	6.11
MEAN							0	0	.80	2.05	2.06	.20
MAX							0	0	3.2	2.8	2.4	1.2
MIN							0	0	0	0	0	0
AC-FT							0	0	48	126	127	12
CAL YEAR 1997	MAX	4.0	MIN	0	AC-FT	318						
WTR YEAR 1998	MAX	3.2	MIN	0	AC-FT	313						

NORTH PLATTE RIVER BASIN

LAST CHANCE CANAL from Pumpkin Creek, 00080000 - 1998

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

GAGE.--Continuous stage recorder

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	4.8	0	0	0
2								0	2.1	0	0	0
3								0	3.5	0	0	0
4								0	3.6	0	0	0
5								0	4.1	0	0	0
6								0	4.2	0	0	0
7								0	4.1	0	0	0
8								0	4.6	0	0	0
9								0	4.8	0	0	0
10								0	5.0	0	0	0
11								0	3.2	0	0	0
12								0	0	0	0	0
13								0	0	0	0	0
14								0	0	0	0	0
15								0	1.3	0	0	0
16								0	4.3	0	0	0
17								0	5.5	0	0	0
18								0	5.7	0	0	0
19								0	5.6	0	0	0
20								0	5.2	0	0	0
21								0	4.6	0	0	0
22								0	4.6	0	0	0
23								0	4.2	0	0	0
24								0	2.4	0	0	0
25								0	1.9	0	0	0
26								1.2	0	0	0	0
27								3.3	0	0	0	0
28								4.6	0	0	0	0
29					-----			5.1	0	0	0	0
30					-----			5.4	0	0	0	0
31		-----			-----		-----	5.2	-----	0	0	-----
TOTAL								24.8	89.3	0	0	0
MEAN								.80	2.98	0	0	0
MAX								5.4	5.7	0	0	0
MIN								0	0	0	0	0
AC-FT								49	177	0	0	0
CAL YEAR 1997	MAX	8.6	MIN	0	AC-FT	234						
WTR YEAR 1998	MAX	5.7	MIN	0	AC-FT	226						

NORTH PLATTE RIVER BASIN

TRINNIER CANAL from Greenwood Creek, 00144200 - 1998

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

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

PERIOD OF RECORD.--1998

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	0	.91	2.2
2								0	0	0	.86	2.2
3								0	0	0	2.2	2.1
4								0	0	0	2.7	2.1
5								0	0	0	2.7	2.3
6								0	0	3.3	2.6	2.4
7								0	0	3.4	2.6	2.4
8								0	0	.05	2.6	2.4
9								0	0	1.6	2.6	2.4
10								0	0	1.4	2.6	2.4
11								0	0	1.4	2.6	2.1
12								0	0	1.5	.89	1.3
13								0	0	1.5	.19	1.3
14								0	0	1.4	.19	1.2
15								0	0	1.4	.18	1.1
16								0	0	1.3	.11	1.1
17								0	0	1.6	2.0	1.1
18								0	0	1.8	2.6	1.0
19								0	0	1.7	2.6	.98
20								0	0	1.8	2.6	.74
21								0	0	1.8	2.5	.69
22								0	0	1.7	2.6	.76
23								0	0	1.7	2.5	.87
24								0	0	1.6	2.5	.87
25								0	0	1.6	2.4	.85
26								0	0	1.8	2.4	.81
27								0	0	1.8	2.4	.76
28								0	0	1.6	2.3	.67
29					-----			0	0	1.6	2.3	.59
30					-----			0	0	1.2	2.2	.56
31		-----			-----		-----	0	-----	.92	2.1	-----
TOTAL								0	0	42.47	62.53	42.25
MEAN								0	0	1.37	2.02	1.41
MAX								0	0	3.4	2.7	2.4
MIN								0	0	0	.11	.56
AC-FT								0	0	84	124	84
WTR YEAR 1998	MAX	3.4	MIN	0	AC-FT	292						

NORTH PLATTE RIVER BASIN

NELSON CANAL from Greenwood Creek, 00105500 - 1998

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

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

PERIOD OF RECORD.--1998

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	0	.02	4.2
2									0	0	.04	4.1
3									0	0	3.2	4.1
4									0	0	5.1	4.1
5									0	0	4.7	2.3
6									0	0	4.6	0
7									0	0	4.6	0
8									0	0	4.6	0
9									0	2.4	4.6	0
10									0	3.5	4.5	0
11									0	3.5	4.9	0
12									0	3.4	1.4	0
13									0	3.4	0	0
14									0	3.3	0	0
15									0	3.5	0	0
16									0	3.6	0	0
17									0	3.6	2.8	0
18									0	3.5	4.3	0
19									0	3.5	4.4	1.2
20									0	3.5	4.3	4.4
21									0	3.5	4.3	4.9
22									0	3.6	4.3	1.4
23									0	3.7	4.3	0
24									0	3.8	4.2	0
25									0	3.9	4.2	0
26									0	1.3	4.3	0
27								0	0	2.9	4.3	0
28								0	0	4.2	4.2	2.3
29					-----			0	0	4.7	4.2	3.8
30					-----			0	0	1.6	4.2	3.8
31		-----			-----		-----	0	-----	.01	4.2	-----
TOTAL								0	0	73.91	104.76	39.6
MEAN								0	0	2.38	3.38	1.32
MAX								0	0	4.7	5.1	4.9
MIN								0	0	0	0	0
AC-FT								0	0	147	208	79
WTR YEAR 1998	MAX	5.1	MIN	0	AC-FT	433						

NORTH PLATTE RIVER BASIN

MEREDITH-AMMER CANAL from Pumpkin Creek, 00088000 - 1998

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

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

PERIOD OF RECORD.--1931 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	4.6	3.4	1.5
2								0	0	4.2	3.5	1.6
3								0	0	4.1	3.5	1.8
4								0	0	3.8	3.2	1.7
5								0	0	5.4	3.4	1.4
6								0	0	5.3	3.4	1.2
7								0	0	4.9	3.6	1.1
8								0	0	4.9	3.6	1.3
9								0	0	4.9	3.2	1.5
10								0	0	4.9	3.0	1.7
11								0	0	4.9	2.7	1.8
12								0	0	4.8	2.6	1.9
13								0	0	4.6	2.4	2.0
14								0	0	4.1	2.4	2.2
15								0	0	3.3	2.3	2.5
16								0	0	3.2	2.2	2.4
17								0	0	3.6	2.1	2.4
18								1.9	0	3.5	2.0	2.4
19								4.6	0	2.5	2.2	1.8
20								5.4	0	2.3	2.1	1.6
21								5.6	0	2.2	2.1	2.0
22								5.5	0	2.5	1.9	2.3
23								5.5	0	2.4	2.0	2.3
24								5.5	0	2.3	1.7	2.7
25								5.5	0	2.7	1.7	2.8
26								4.2	2.5	2.9	1.6	3.0
27								0	4.9	2.4	1.5	3.2
28								0	4.8	2.2	.97	3.1
29					-----			0	4.7	2.4	.70	1.3
30					-----			0	4.4	3.5	1.1	
31		-----			-----		-----	0	-----	3.3	1.3	-----
TOTAL								43.7	21.3	112.6	73.37	58.5
MEAN								1.41	.71	3.63	2.37	2.02
MAX								5.6	4.9	5.4	3.6	3.2
MIN								0	0	2.2	.70	1.1
AC-FT								87	42	223	146	116
CAL YEAR 1997	MAX	6.6	MIN	0	AC-FT	688						
WTR YEAR 1998	MAX	5.6	MIN	0	AC-FT	614						

NORTH PLATTE RIVER BASIN

PUMPKIN CREEK near Bridgeport, 06685000 - 1998

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

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

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

PERIOD OF RECORD.--Feb. 1931 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 68 cubic feet per second April 14, gage height 2.37 feet; no flow many days during the summer months.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	5.1	6.5	10 E	8.7	9.0E	11	8.8	9.8	1.4	0	.06
2	1.8	5.6	6.5	9.0E	9.6	12 E	11	8.5	9.4	1.5	0	.10
3	1.9	6.1	6.6	9.0E	10	13	11	8.2	8.7	2.6	.01	.17
4	2.1	6.1	5.6E	8.0E	11	12	15	7.6	9.7	1.9	.02	.25
5	2.2	6.0	5.0E	7.0E	11	12	59	7.9	10	.94	.06	.16
6	2.6	5.9	5.0E	6.6E	11	12 E	53	7.9	10	1.4	.07	.03
7	2.9	6.2	8.2E	6.0E	11	12 E	41	7.9	9.5	1.0	.11	.03
8	3.3	6.5	8.0E	6.6E	10	11 E	24	7.5	10	2.3	0	.04
9	2.8	6.8	8.0E	7.0E	11	11 E	17	8.5	11	3.3	.01	.05
10	2.5	6.9	9.0E	7.2E	12	10 E	13	8.5	26	1.9	.01	.05
11	2.8	7.4	9.4E	8.0E	9.9	9.0E	14	11	19	1.4	0	.30
12	3.8	7.7	10 E	7.0E	9.0	10 E	50	9.9	14	.32	0	1.1
13	5.5	7.2E	10 E	7.2E	9.3	12 E	51	9.2	14	0	0	.53
14	4.7	7.0E	11 E	7.6E	10	11	63	7.5	14	0	0	.11
15	4.2	6.4E	11	7.8E	9.4	11	56	8.0	14	0	0	.10
16	4.3	6.4E	11	8.0E	10	11	44	5.6	11	.03	.01	.05
17	4.2	7.2E	12	10 E	9.6	11	39	6.2	16	.10	.01	.04
18	4.5	7.4E	11	11	9.6	10	16	4.5	15	.02	.05	.02
19	4.5	6.6E	10	10	8.1	10	10	1.4	13	.11	.01	.01
20	4.7	6.6E	10 E	9.8	8.7	10	10	2.8	12	0	.01	.01
21	5.2	6.6	10 E	11	9.7	10	10	8.5	11	0	.03	.03
22	6.1	6.6	10 E	11	9.9	10	11	7.8	11	0	.04	.01
23	6.1	6.6E	11 E	9.7	9.2	11	10	6.6	9.2	0	.02	0
24	6.4	6.7	11 E	10	9.0	11	11	6.2	8.8	0	0	.01
25	5.6E	6.6	10 E	10	8.3	11	9.9	6.1	8.2	0	.01	0
26	6.0E	6.7	11 E	9.9	8.0E	10	10	7.2	6.1	0	.01	0
27	7.0E	6.9	11 E	9.9	8.2E	10	10	12	2.3	0	0	0
28	6.4E	7.2	11 E	9.8	8.6E	10	10	11	1.5	0	.03	0
29	5.8E	7.5	11 E	9.8	-----	11	9.8	11	1.2	.46	.01	0
30	5.2E	6.9	11 E	9.4	-----	11	9.5	11	.77	0	.02	1.5
31	4.8	-----	11 E	9.0	-----	11	-----	10	-----	0	.06	-----
TOTAL	132.0	199.4	291.8	272.3	269.8	335.0	709.2	244.8	316.17	20.68	0.61	4.76
MEAN	4.26	6.65	9.41	8.78	9.64	10.8	23.6	7.90	10.5	.67	.020	.16
MAX	7.0	7.7	12	11	12	13	63	12	26	3.3	.11	1.5
MIN	1.8	5.1	5.0	6.0	8.0	9.0	9.5	1.4	.77	0	0	0
AC-FT	262	396	579	540	535	664	1,410	486	627	41	1.2	9.4
CAL YEAR 1997 TOTAL	2,950.59		MEAN	8.08	MAX	69	MIN	0	AC-FT	5,850		
WTR YEAR 1998 TOTAL	2,796.52		MEAN	7.66	MAX	63	MIN	0	AC-FT	5,550		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

BEERLINE CANAL from North Platte River, 00007000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1							0	0	2.7	15	9.9
2	3.1							0	0	2.3	13	9.4
3	2.8							0	0	2.9	13	9.7
4	2.3							0	0	3.5	12	10
5	2.2							0	0	3.8	12	10
6	2.0							0	0	4.0	12	10
7	1.9							0	0	4.0	11	10
8	1.2							0	0	5.0	11	11
9	0							0	0	7.9	12	11
10	0							0	0	13	18	11
11	0							0	0	12	18	11
12	0							0	0	14	17	11
13	0							0	0	16	20	8.3
14	0							0	0	15	20	5.8
15	0							0	0	16	20	5.9
16	0							0	0	18	20	6.0
17	0							0	0	17	20	5.9
18	0							0	0	17	18	5.9
19	0							0	0	16	17	6.0
20	0							0	0	17	17	6.1
21	0							0	0	16	14	6.5
22	0							0	0	16	11	6.9
23	0							0	0	16	12	7.0
24	0							0	0	17	12	6.8
25	0							0	0	18	13	6.3
26	0							0	0	19	13	5.8
27	0							0	0	17	11	5.5
28	0							0	0	15	9.6	5.4
29	0				-----			0	0	14	9.4	5.0
30	0				-----			0	1.2	14	9.4	4.5
31	0	-----			-----		-----	0	-----	14	9.9	-----
TOTAL	18.6							0	1.2	383.1	440.3	233.6
MEAN	.60							0	.040	12.4	14.2	7.79
MAX	3.1							0	1.2	19	20	11
MIN	0							0	0	2.3	9.4	4.5
AC-FT	37							0	2.4	760	873	463
CAL YEAR 1997	MAX	21	MIN	0	AC-FT	1,910						
WTR YEAR 1998	MAX	20	MIN	0	AC-FT	2,140						

NORTH PLATTE RIVER BASIN

BELMONT CANAL from Cedar Creek, 00010000 - 1998

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

GAGE.--Continuous stage recorder and concrete box

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	2.7	1.6	3.4	2.0
2								0	2.3	1.7	3.1	1.7
3								0	1.8	2.3	2.4	1.8
4								0	2.4	2.3	2.8	1.8
5								0	2.2	2.4	2.1	1.7
6								0	1.7	2.1	1.8	1.7
7								0	2.5	1.8	1.9	1.9
8								0	2.8	2.6	2.0	2.1
9								0	2.1	3.0	2.1	2.8
10								0	1.8	2.6	2.4	2.2
11								0	1.9	2.4	2.1	2.9
12								0	2.0	2.2	2.2	4.1
13								0	2.2	2.1	2.2	3.8
14								0	2.1	2.4	2.2	3.5
15								0	2.2	2.4	2.2	2.7
16								0	2.2	2.2	1.9	1.7
17								0	2.2	2.2	1.8	1.4
18								0	2.2	2.1	2.0	1.6
19								0	2.0	2.3	1.5	1.6
20								.61	2.3	2.7	1.8	1.5
21								2.7	2.7	2.1	1.8	.90
22								1.6	2.9	1.7	1.9	0
23								2.1	3.0	2.2	2.1	0
24								2.2	2.6	1.9	2.0	0
25								2.2	2.4	1.8	1.8	0
26								2.2	2.1	2.3	2.1	0
27								2.2	1.3	2.2	2.0	0
28								2.3	1.6	1.8	1.6	0
29					-----			2.4	1.5	2.2	1.8	0
30					-----			2.5	1.3	2.0	1.4	0
31		-----			-----		-----	2.7	-----	2.4	1.5	-----
TOTAL								25.71	65.0	68.0	63.9	45.40
MEAN								.83	2.17	2.19	2.06	1.51
MAX								2.7	3.0	3.0	3.4	4.1
MIN								0	1.3	1.6	1.4	0
AC-FT								51	129	135	127	90
CAL YEAR 1997 MAX		4.6	MIN	0	AC-FT	487						
WTR YEAR 1998 MAX		4.1	MIN	0	AC-FT	532						

NORTH PLATTE RIVER BASIN

LISCO CANAL from North Platte River, 00082000 - 1998

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

GAGE.--Continuous stage recorder and weir

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37						0	12	38	42	53	38
2	30						0	8.5	38	34	50	32
3	22						0	32	40	42	48	34
4	15						0	44	42	46	46	42
5	15						0	42	46	51	45	40
6	14						0	39	47	54	46	37
7	33						0	45	47	45	54	37
8	47						0	50	45	43	50	39
9	46						0	49	34	65	45	40
10	48						0	47	36	53	51	41
11	49						0	40	34	43	47	37
12	55						0	31	34	28	30	33
13	45						0	40	33	33	48	39
14	34						0	43	38	34	43	43
15	31						0	41	37	31	50	41
16	30						0	38	38	31	50	30
17	31						0	37	42	37	47	30
18	33						0	38	42	42	48	31
19	34						0	27	38	40	47	31
20	36						0	0	35	41	42	33
21	35						0	0	21	43	48	40
22	34						0	0	0	44	53	42 E
23	22						0	0	0	43	61	44
24	0						0	16	0	44	52	24
25	0						0	41	0	46	51	22
26	0						0	41	0	49	51	22
27	0						0	42	0	46	51	22
28	0						21	40	0	42	46	24
29	0				-----		32	39	0	45	42	23
30	0				-----		27	39	22	52	41	20
31	0	-----			-----		-----	38	-----	50	41	-----
TOTAL	776						80	999.5	827	1,339	1,477	1,011
MEAN	25.0						2.67	32.2	27.6	43.2	47.6	33.7
MAX	55						32	50	47	65	61	44
MIN	0						0	0	0	28	30	20
AC-FT	1,540						159	1,980	1,640	2,660	2,930	2,010
CAL YEAR 1997	MAX	98	MIN	0	AC-FT	15,980						
WTR YEAR 1998	MAX	65	MIN	0	AC-FT	12,910						

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER at Lisco, 06686000 - 1998

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. 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 feet. Minimum daily discharge 8 cubic feet per second August 4, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharge 4,390 cubic feet per second March 31, gage height 3.30 feet; maximum gage height 5.09 feet January 13 due to back water from ice; minimum daily discharge 386 cubic feet per second July 23.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,740	1,630	1,200	1,090	994	880E	4,210	1,790	930	633	1,080	940
2	1,670	1,600	1,170	1,090	994	900E	4,130	1,600	915	564	1,110	881
3	1,680	1,550	1,170	1,050	993	959	4,130	1,410	957	631	1,130	841
4	1,630	1,520	1,170	1,050	1,000	955	4,070	1,230	1,030	663	1,150	874
5	1,600	1,470	1,130	1,040	1,010	979	4,030	1,120	1,120	701	1,160	876
6	1,560	1,470	1,080	1,030	1,020	980E	4,040	1,000	1,130	704	1,150	873
7	1,540	1,470	1,140	991	1,020	970E	4,050	1,080	1,130	671	1,100	880
8	1,490	1,460	1,150	1,000	1,010	960E	4,120	1,160	1,330	761	985	922
9	1,480	1,420	1,190	780E	1,050	970E	4,140	1,180	1,520	1,060	852	974
10	1,490	1,400	1,210	760E	1,130	1,050E	4,050	1,170	1,580	1,070	805	1,060
11	1,510	1,380	1,180	800E	1,100	1,100E	4,010	1,420	1,530	979	816	1,130
12	1,590	1,360	1,080	820E	1,070	1,750	3,950	1,430	1,520	877	845	1,150
13	1,520	1,350	1,120	840E	1,070	2,080	3,920	1,370	1,400	850	751	1,160
14	1,520	1,180	1,140	860E	1,080	2,280	4,090	1,250	1,370	708	733	1,200
15	1,540	1,150	1,140	880E	1,090	2,440	4,160	1,150	1,310	604	740	1,260
16	1,550	1,290	1,160	900E	1,120	2,690	4,130	1,060	1,250	551	765	1,300
17	1,540	1,310	1,150	940E	1,120	2,970	4,030	1,040	1,260	490	768	1,290
18	1,510	1,310	1,140	980E	1,090	3,180	3,780	1,050	1,280	459	732	1,300
19	1,490	1,300	1,120	1,000E	1,080	3,350	3,700	1,100	1,220	425	715	1,260
20	1,510	1,320	1,110	1,050	1,090	3,510	3,630	1,230	1,240	409	705	1,250
21	1,520	1,320	1,100	1,020	1,080	3,610	3,580	1,350	1,460	398	698	1,370
22	1,520	1,290	1,080	1,000	1,060	3,780	3,560	1,170	1,400	386	702	1,430
23	1,510	1,270	1,070	992	1,040	3,870	3,530	1,330	1,260	393	800	1,550
24	1,630	1,250	1,070	970	1,040	3,960	3,500	1,180	1,250	436	960	1,650
25	1,710	1,230	1,100	951	1,050	4,000	3,260	1,140	1,260	491	1,090	1,740
26	1,700E	1,180	1,090	952	950E	3,990	2,910	1,100	1,150	594	1,090	1,700
27	1,700E	1,160	1,100	982	900E	4,020	2,720	1,110	1,010	822	1,050	1,760
28	1,700E	1,150	1,100	979	850E	4,060	2,550	1,040	921	882	972	1,900
29	1,700E	1,150	1,130	973	-----	4,140	2,200	987	801	826	870	1,900
30	1,700E	1,180	1,080	992	-----	4,280	1,940	974	711	871	850	1,810
31	1,690	-----	1,070	993	-----	4,290	-----	940	-----	964	896	-----
TOTAL	49,240	40,120	34,940	29,755	29,101	78,953	110,120	37,161	36,245	20,873	28,070	38,231
MEAN	1,588	1,337	1,127	960	1,039	2,547	3,671	1,199	1,208	673	905	1,274
MAX	1,740	1,630	1,210	1,090	1,130	4,290	4,210	1,790	1,580	1,070	1,160	1,900
MIN	1,480	1,150	1,070	760	850	880	1,940	940	711	386	698	841
AC-FT	97,670	79,580	69,300	59,020	57,720	156,600	218,400	73,710	71,890	41,400	55,680	75,830
CAL YEAR 1997 TOTAL		710,137	MEAN	1,946	MAX	7,650	MIN	785	AC-FT	1,409,000		
WTR YEAR 1998 TOTAL		532,809	MEAN	1,460	MAX	4,290	MIN	386	AC-FT	1,057,000		

E indicates estimated discharge

NORTH PLATTE RIVER BASIN

MIDLAND-OVERLAND CANAL from North Platte River, 00098000 - 1998

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

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

PERIOD OF RECORD.--1924 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	0	17	5.9
2								0	0	.90	17	6.7
3								0	0	8.2	13	11
4								0	0	6.0	12	15
5								0	0	5.3	10	15
6								0	0	8.4	9.5	15
7								0	0	14	4.1	12
8								0	0	19	.08	8.0
9								0	0	21	.08	7.1
10								0	0	22	5.2	7.7
11								0	0	24	16	7.3
12								0	0	24	11	5.0
13								0	0	21	6.2	1.4
14								0	0	18	2.8	1.2
15								0	0	15	2.3	1.1
16								0	0	11	.60	1.4
17								0	0	8.6	6.7	1.5
18								0	0	6.5	9.6	2.0
19								0	0	6.7	9.9	1.9
20								0	0	7.9	10	2.1
21								0	0	6.6	7.7	2.8
22								0	0	6.1	7.5	3.2
23								0	0	7.3	9.0	3.8
24								0	0	8.3	11	4.1
25								0	0	9.0	9.5	4.7
26								0	0	10	8.7	5.1
27								0	0	12	7.6	4.8
28								0	0	14	6.1	5.0
29					-----			0	0	15	5.0	5.0
30					-----			0	0	15	3.2	5.1
31		-----			-----		-----	0	-----	16	5.3	-----
TOTAL								0	0	366.80	243.66	171.9
MEAN								0	0	11.8	7.86	5.73
MAX								0	0	24	17	15
MIN								0	0	0	.08	1.1
AC-FT								0	0	728	483	341
CAL YEAR 1997	MAX	27	MIN	0	AC-FT	2,490						
WTR YEAR 1998	MAX	24	MIN	0	AC-FT	1,550						

NORTH PLATTE RIVER BASIN

PAISLEY CANAL from Blue Creek, 00120000 - 1998

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

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

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17							0	0	28	14	14
2	18							0	0	23	14	14
3	19							0	0	21	13	14
4	19							0	0	22	13	12
5	19							0	0	21	14	11
6	19							0	0	20	14	12
7	19							0	0	14	14	13
8	19							0	0	9.7	13	14
9	19							0	0	13	13	14
10	19							0	0	10	14	14
11	19							0	0	11	14	14
12	17							0	0	11	17	15
13	13							0	0	12	8.7	15
14	7.2							0	0	12	1.0	16
15	0							0	0	13	.98	16
16	0							0	0	14	.98	16
17	0							0	.45	13	8.3	15
18	0							0	1.5	8.8	14	15
19	0							0	1.3	5.5	14	15
20	0							0	1.2	5.3	14	15
21	0							0	.95	6.0	14	17
22	0							0	.83	6.2	14	19
23	0							0	.69	6.4	14	19
24	0							0	.55	7.0	11	18
25	0							0	.41	9.8	11	18
26	0							0	.31	12	12	17
27	0							0	.20	12	13	15
28	0							0	.09	12	12	15
29	0				-----			0	2.7	12	12	15
30	0				-----			0	22	13	13	16
31	0	-----			-----		-----	0	-----	13	14	-----
TOTAL	243.2							0	33.26	396.7	368.96	453
MEAN	7.85							0	1.11	12.8	11.9	15.1
MAX	19							0	22	28	17	19
MIN	0							0	0	5.3	.98	11
AC-FT	482							0	66	787	732	899
CAL YEAR 1997	MAX	22	MIN	0	AC-FT	3,410						
WTR YEAR 1998	MAX	28	MIN	0	AC-FT	2,970						

NORTH PLATTE RIVER BASIN

BLUE CREEK & HOOPER CANAL from Blue Creek, 00017100 - 1998

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

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

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

REMARKS.--Total diversion from Blue Creek for both Blue Creek Canal and Hooper Canal. Diversion at this site before 1996 was for Blue Creek Canal only. Deliveries to Hooper Canal shown separately in this report.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19							0	17	2.4	31	37
2	19							0	17	22	32	41
3	19							0	18	31	32	46
4	18							0	17	33	31	49
5	17							0	15	33	31	49
6	14							0	5.7	48	31	49
7	14							0	0	47	31	50
8	8.4							0	0	49	43	51
9	4.0							0	0	50	43	51
10	4.0							0	0	51	45	51
11	4.1							0	0	51	40	50
12	8.3							0	0	51	0	51
13	0							0	0	52	0	52
14	0							0	0	46	0	47
15	0							12	0	39	0	36
16	0							5.5	0	42	3.8	38
17	0							9.2	0	42	30	41
18	0							11	0	47	45	36
19	0							14	0	49	47	36
20	0							18	0	50	49	36
21	0							17	0	50	49	25
22	0							17	0	50	49	26
23	0							16	0	48	48	26
24	0							11	0	47	47	25
25	0							7.3	0	47	47	24
26	0							6.6	0	48	45	24
27	0							16	0	47	42	23
28	0							22	0	47	33	23
29	0				-----			21	0	48	26	27
30	0				-----			20	0	45	25	30
31	0	-----			-----		-----	17	-----	38	32	-----
TOTAL	148.8							240.6	89.7	1,350.4	1,007.8	1,150
MEAN	4.80							7.76	2.99	43.6	32.5	38.3
MAX	19							22	18	52	49	52
MIN	0							0	0	2.4	0	23
AC-FT	295							477	178	2,680	2,000	2,280
CAL YEAR 1997	MAX	56	MIN	0	AC-FT	9,600						
WTR YEAR 1998	MAX	52	MIN	0	AC-FT	7,910						

NORTH PLATTE RIVER BASIN

HOOPER CANAL from Blue Creek via Blue Creek and Hooper Canal, 00067000 - 1998

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

GAGE.--Continuous stage recorder and 4 ft. Rectangular Weir

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

REMARKS.--Hooper Canal diverted directly from Blue Creek before 1996.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	0	7.0	5.7
2								0	0	3.8	7.2	5.3
3								0	0	8.9	7.2	5.0
4								0	0	11	7.7	5.9
5								0	0	11	7.7	5.9
6								0	0	12	7.5	5.5
7								0	0	9.9	7.2	8.5
8								0	0	11	8.6	9.3
9								0	0	11	6.1	9.4
10								0	0	11	4.6	9.6
11								0	0	11	4.2	9.8
12								0	0	11	0	10
13								0	0	12	0	10
14								0	0	5.9	0	9.1
15								0	0	3.1	0	6.1
16								0	0	2.8	.30	5.6
17								0	0	2.7	5.2	4.6
18								0	0	7.4	6.1	0
19								0	0	8.6	6.3	0
20								0	0	8.7	6.7	0
21								0	0	8.5	6.6	0
22								0	0	8.6	7.0	0
23								0	0	9.3	7.0	0
24								0	0	9.4	10	0
25								0	0	9.2	11	.99
26								0	0	9.2	7.9	4.4
27								0	0	9.3	4.8	3.8
28								0	0	9.1	4.4	3.5
29					-----			0	0	9.1	4.1	3.7
30					-----			0	0	9.4	4.5	4.0
31		-----			-----		-----	0	-----	8.1	4.9	-----
TOTAL								0	0	262.0	171.80	145.69
MEAN								0	0	8.45	5.54	4.86
MAX								0	0	12	11	10
MIN								0	0	0	0	0
AC-FT								0	0	520	341	289
CAL YEAR 1997	MAX	12	MIN	0	AC-FT	1,600						
WTR YEAR 1998	MAX	12	MIN	0	AC-FT	1,150						

NORTH PLATTE RIVER BASIN

UNION CANAL from Blue Creek, 00146000 - 1998

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

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

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13							0	0	0	16	9.4
2	12							0	0	1.8	15	9.9
3	11							0	0	6.0	15	12
4	12							0	0	8.1	15	12
5	12							0	0	7.8	15	12
6	9.9							0	0	6.7	15	11
7	6.2							0	0	9.2	15	11
8	4.0							0	0	9.3	12	10
9	2.8							0	0	11	12	11
10	4.2							0	0	11	12	10
11	2.3							0	0	8.7	10	11
12	0							0	0	9.3	13	11
13	0							0	0	9.1	10	12
14	0							0	0	11	11	10
15	0							0	0	9.8	4.9	10
16	0							0	0	9.7	0	8.8
17	0							0	0	9.9	0	7.7
18	0							0	0	9.4	7.5	9.1
19	0							0	6.6	10	10	7.4
20	0							0	11	11	14	6.0
21	0							0	8.8	11	13	4.7
22	0							0	0	11	13	4.2
23	0							0	0	11	13	4.0
24	0							0	0	11	12	3.4
25	0							0	0	13	11	3.3
26	0							0	0	14	12	3.3
27	0							0	0	15	12	3.9
28	0							0	0	14	11	3.9
29	0				-----			0	0	14	11	3.6
30	0				-----			0	0	15	11	7.7
31	0	-----			-----		-----	0	-----	17	9.5	-----
TOTAL	89.4							0	26.6	314.8	350.9	243.3
MEAN	2.88							0	.89	10.2	11.3	8.11
MAX	13							0	11	17	16	12
MIN	0							0	0	0	0	3.3
AC-FT	177							0	53	624	696	483
CAL YEAR 1997	MAX	17	MIN	0	AC-FT	2,490						
WTR YEAR 1998	MAX	17	MIN	0	AC-FT	2,030						

NORTH PLATTE RIVER BASIN

GRAF CANAL from Blue Creek, 00060000 - 1998

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

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

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4							0	11	0	4.6	.11
2	5.4							0	11	0	7.8	.09
3	5.3							0	12	0	12	.06
4	5.2							0	12	5.8	11	.05
5	5.1							0	11	10	10	.03
6	5.5							0	9.5	4.6	10	.01
7	5.5							0	9.5	4.0	10	.01
8	5.7							0	8.2	10	8.8	0
9	6.1							0	6.5	6.8	8.2	2.4
10	6.0							12	0	8.4	8.3	.25
11	5.1							11	0	8.9	8.6	.27
12	0							12	0	8.7	13	.23
13	0							12	0	9.2	12	3.9
14	0							11	0	8.9	12	5.8
15	0							10	0	11	12	10
16	0							11	0	9.4	13	10
17	0							10	0	8.7	11	9.6
18	0							10	0	6.6	8.9	9.5
19	0							10	0	5.2	7.8	9.3
20	0							10	0	6.6	3.7	10
21	0							11	0	7.0	2.0	12
22	0							11	0	9.8	2.2	13
23	0							11	0	8.8	1.7	13
24	0							11	0	10	2.1	13
25	0							11	0	10	7.0	13
26	0							11	0	10	8.6	13
27	0							11	0	9.5	4.4	13
28	0							11	0	8.6	.24	13
29	0				-----			11	0	5.1	.19	12
30	0				-----			11	0	4.0	.16	12
31	0	-----			-----		-----	11	-----	4.3	.14	-----
TOTAL	60.3							240	90.7	219.9	221.43	198.61
MEAN	1.95							7.74	3.02	7.09	7.14	6.62
MAX	6.1							12	12	11	13	13
MIN	0							0	0	0	.14	0
AC-FT	120							476	180	436	439	394
CAL YEAR 1997	MAX	13	MIN	0	AC-FT	2,040						
WTR YEAR 1998	MAX	13	MIN	0	AC-FT	2,040						

NORTH PLATTE RIVER BASIN

BLUE CREEK near Lewellen, 06687000 - 1998

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

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

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

PERIOD OF RECORD.--Oct. 1930 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 180 cubic feet per second June 21, gage height 4.76 feet; maximum gage height 6.41 feet January 15 due to backwater from ice; minimum daily discharge 0.14 cubic feet per second July 11 & 28.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	104	104	96	91	79	95	91	53	70	20	16
2	30	101	104	97	90	87	97	90	52	48	20	13
3	29	99	100	96	88	92	97	91	53	31	16	6.6
4	29	100	97	90	88	92	97	91	56	19	15	2.0
5	30	102	100E	90	88	86	96	91	62	13	14	1.7
6	34	101	102E	91	88	87	97	93	71	5.8	14	3.2
7	38	102	103	89	88	89	97	94	77	3.7	12	3.6
8	42	102	106	89	90	87	96	99	87	5.5	3.4	3.0
9	49	102	106	87	93	90	95	106	96	.31	.76	1.4
10	49	100	104	85	99	94	95	87	111	.22	.88	3.1
11	54	101	100	84E	97	98E	95	95	105	.14	2.8	3.5
12	104	102	104	84E	92	102	91	125	96	.16	55	2.8
13	105	101	98	86E	90	98	90	99	93	.25	54	1.0
14	86	100E	98	86E	89	102	99	84	107	1.5	62	3.5
15	80	96E	96	88E	90	98	105	66	113	4.3	69	16
16	79	94E	94	90E	93	97	98	72	100	.43	70	15
17	81	104E	91	92	94	97	93	64	102	.43	36	12
18	83	106	90	94	93	99	92	61	101	.36	9.8	14
19	93	105	88	95	90	96	90	58	93	.23	1.8	15
20	91	105	85	94	88	95	87	65	84	.30	.78	15
21	92	104	84	93	88	95	88E	72	99	.34	2.8	23
22	94	103	83	90	87	98	88E	71	104	1.4	.51	28
23	94	102	85	90	87	97	88E	74	102	1.0	.27	28
24	97	103	88	89	87	97	88E	76	101	5.0	4.8	27
25	82	105	89	90	87	100	90E	73	97	6.9	2.5	27
26	103	105	88	91	87	99	90E	70	91	2.3	.19	26
27	122	105	88	91	84	98	90E	64	88	1.2	7.8	28
28	134	107	89	92	75	97	90E	56	86	.14	18	27
29	129	104	88	92	-----	102	90E	53	85	.24	24	23
30	114	103	97	91	-----	100	91	51	74	2.6	24	18
31	110	-----	96	91	-----	96	-----	53	-----	13	21	-----
TOTAL	2,388	3,068	2,945	2,803	2,501	2,944	2,795	2,435	2,639	238.75	583.09	406.4
MEAN	77.0	102	95.0	90.4	89.3	95.0	93.2	78.5	88.0	7.70	18.8	13.5
MAX	134	107	106	97	99	102	105	125	113	70	70	28
MIN	29	94	83	84	75	79	87	51	52	.14	.19	1.0
AC-FT	4,740	6,090	5,840	5,560	4,960	5,840	5,540	4,830	5,230	474	1,160	806
CAL YEAR 1997 TOTAL	25,323.65		MEAN	69.4	MAX	135	MIN	0	AC-FT	50,230		
WTR YEAR 1998 TOTAL	25,746.24		MEAN	70.5	MAX	134	MIN	.14	AC-FT	51,070		

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER at Lewellen, 06687500 - 1998

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

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

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

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991. Records 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 4,260 cubic feet per second April 15, gage height 7.34 feet; maximum gage height 8.34 feet March 8 due to backwater from ice; minimum daily discharge 545 cubic feet per second July 22.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,820	1,550	1,380	1,120E	1,040E	1,000E	4,100	2,200	1,110	874	880	846
2	1,740	1,540	1,380	1,160E	1,020	980E	4,070	1,940	1,070	798	980	858
3	1,700	1,530	1,370	1,180	1,050	980E	4,070	1,720	1,110	745	969	825
4	1,650	1,540	1,350	1,150	1,070	960E	4,070	1,600	1,170	747	990	809
5	1,580	1,550	1,290	1,180	1,100	960E	4,050	1,510	1,280	771	1,030	807
6	1,510	1,550	1,230	1,130	1,110	940E	4,040	1,310	1,330	781	1,020	818
7	1,460	1,520	1,240	1,090	1,120	960E	4,100	1,200	1,300	792	1,020	846
8	1,440	1,520	1,350	1,070	1,140	920E	4,110	1,420	1,440	773	950	880
9	1,480	1,510	1,350	1,100	1,180	900E	4,170	1,520	1,620	802	879	903
10	1,440	1,480	1,350	1,000E	1,370	1,000E	4,210	1,380	1,860	933	835	952
11	1,480	1,470	1,330	960E	1,380	1,100E	4,150	1,560	1,760	921	847	1,020
12	1,910	1,450	1,200E	980E	1,330	1,200E	4,130	1,710	1,650	859	980	1,070
13	1,660	1,460	1,100E	1,000E	1,300	1,600E	4,060	1,630	1,590	787	845	1,130
14	1,490	1,370	1,000E	1,020E	1,270	2,000E	4,110	1,490	1,620	749	805	1,210
15	1,460	1,200	1,200E	1,060E	1,280	2,390	4,230	1,330	1,440	682	847	1,230
16	1,440	1,290	1,250E	1,080E	1,290	2,460	4,210	1,240	1,310	637	794	1,250
17	1,460	1,460	1,300E	1,100E	1,310	2,670	4,190	1,150	1,390	609	759	1,290
18	1,470	1,500	1,350E	1,200E	1,290	2,920	4,070	1,130	1,490	595	712	1,290
19	1,460	1,430	1,400E	1,200E	1,230	3,130	3,810	1,090	1,380	578	683	1,270
20	1,460	1,440	1,430	1,300E	1,200	3,320	3,690	1,500	1,250	564	696	1,280
21	1,470	1,450	1,380	1,200E	1,220	3,520	3,640	1,880	1,490	548	692	1,420
22	1,470	1,450	1,350	1,100E	1,230	3,660	3,600	1,640	2,080	545	674	1,510
23	1,460	1,450	1,300	1,080E	1,270	3,860	3,590	1,610	1,620	546	690	1,570
24	1,520	1,440	1,310	1,100E	1,280	3,960	3,580	1,520	1,380	571	745	1,660
25	1,640	1,450	1,330	1,120E	1,280	3,880	3,530	1,400	1,370	610	811	1,720
26	1,690	1,440	1,310	1,100E	1,260	3,900	3,240	1,380	1,240	649	850	1,750
27	1,740	1,440	1,200E	1,100E	1,140	3,900	2,980	1,370	1,120	670	857	1,760
28	1,690	1,440	1,100E	1,080E	1,030	3,910	2,880	1,340	1,020	745	841	1,830
29	1,710	1,420	1,000E	1,060E	-----	4,030	2,680	1,250	948	765	840	1,870
30	1,660	1,390	1,060E	1,060E	-----	4,030	2,420	1,220	883	774	826	1,790
31	1,620	-----	1,100E	1,060E	-----	4,100	-----	1,170	-----	819	823	-----
TOTAL	48,780	43,730	39,290	34,140	33,790	75,140	113,780	45,410	41,321	22,239	26,170	37,464
MEAN	1,574	1,458	1,267	1,101	1,207	2,424	3,793	1,465	1,377	717	844	1,249
MAX	1,910	1,550	1,430	1,300	1,380	4,100	4,230	2,200	2,080	933	1,030	1,870
MIN	1,440	1,200	1,000	960	1,020	900	2,420	1,090	883	545	674	807
AC-FT	96,760	86,740	77,930	67,720	67,020	149,000	225,700	90,070	81,960	44,110	51,910	74,310

CAL YEAR 1997 TOTAL 737,741 MEAN 2,021 MAX 7,870 MIN 680 AC-FT 1,463,000
 WTR YEAR 1998 TOTAL 561,254 MEAN 1,538 MAX 4,230 MIN 545 AC-FT 1,113,000

E indicates estimated discharge

NORTH PLATTE RIVER BASIN

KINGSLEY RESERVOIR from North Platte River, 06690000 - 1998

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

GAGE.--Electric tape gage read once daily

PERIOD OF RECORD.--1941 - 1988, 1990

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

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

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,528,700	1,556,900	1,537,100	1,523,100	1,514,700	1,509,100	1,534,300	1,608,600	1,614,500	1,602,800	1,408,800	1,283,800
2	1,528,700	1,554,100	1,537,100	1,523,100	1,514,700	1,509,100	1,537,100	1,611,600	1,614,500	1,602,800	1,403,600	1,281,300
3	1,528,700	1,551,200	1,537,100	1,523,100	1,514,700	1,506,300	1,537,100	1,611,600	1,614,500	1,588,400	1,403,600	1,278,800
4	1,528,700	1,551,200	1,537,100	1,523,100	1,511,900	1,506,300	1,537,100	1,614,500	1,614,500	1,582,600	1,403,600	1,276,400
5	1,528,700	1,551,200	1,534,300	1,523,100	1,514,700	1,506,300	1,539,900	1,611,600	1,614,500	1,576,900	1,400,900	1,271,500
6	1,528,700	1,548,400	1,531,500	1,523,100	1,514,700	1,506,300	1,542,800	1,611,600	1,611,600	1,571,100	1,395,700	1,271,500
7	1,528,700	1,548,400	1,531,500	1,523,100	1,514,700	1,503,600	1,545,600	1,611,600	1,614,500	1,562,600	1,393,100	1,266,600
8	1,531,500	1,548,400	1,531,500	1,523,100	1,514,700	1,503,600	1,548,400	1,614,500	1,620,300	1,556,900	1,390,500	1,266,600
9	1,534,300	1,548,400	1,531,500	1,523,100	1,514,700	1,500,800	1,551,200	1,617,400	1,617,400	1,548,400	1,387,800	1,264,100
10	1,537,100	1,545,600	1,534,300	1,520,300	1,514,700	1,500,800	1,551,200	1,617,400	1,626,100	1,542,800	1,382,600	1,261,700
11	1,539,900	1,545,600	1,531,500	1,517,500	1,514,700	1,498,100	1,554,100	1,617,400	1,626,100	1,537,100	1,380,000	1,256,800
12	1,545,600	1,545,600	1,531,500	1,517,500	1,514,700	1,498,100	1,556,900	1,620,300	1,629,100	1,531,500	1,377,400	1,254,400
13	1,548,400	1,545,600	1,528,700	1,514,700	1,514,700	1,498,100	1,559,700	1,620,300	1,632,000	1,523,100	1,372,200	1,254,400
14	1,551,200	1,545,600	1,525,900	1,511,900	1,514,700	1,500,800	1,562,600	1,620,300	1,632,000	1,517,500	1,369,600	1,251,900
15	1,554,100	1,545,600	1,525,900	1,511,900	1,514,700	1,503,600	1,568,300	1,617,400	1,632,000	1,511,900	1,367,100	1,251,900
16	1,559,700	1,542,800	1,525,900	1,511,900	1,514,700	1,506,300	1,571,100	1,620,300	1,629,100	1,503,600	1,364,500	1,249,500
17	1,559,700	1,542,800	1,525,900	1,511,900	1,514,700	1,506,300	1,574,000	1,617,400	1,635,000	1,495,300	1,359,300	1,247,100
18	1,559,700	1,542,800	1,525,900	1,509,100	1,514,700	1,509,100	1,576,900	1,620,300	1,635,000	1,495,300	1,356,700	1,247,100
19	1,562,600	1,542,800	1,525,900	1,511,900	1,514,700	1,511,900	1,579,800	1,623,200	1,637,900	1,484,300	1,349,000	1,244,700
20	1,562,600	1,542,800	1,525,900	1,511,900	1,514,700	1,514,700	1,585,500	1,623,200	1,635,000	1,473,300	1,343,900	1,244,700
21	1,562,600	1,542,800	1,525,900	1,511,900	1,514,700	1,517,500	1,588,400	1,623,200	1,637,900	1,465,200	1,338,800	1,242,300
22	1,562,600	1,542,800	1,525,900	1,514,700	1,514,700	1,517,500	1,588,400	1,626,100	1,637,900	1,459,700	1,333,800	1,242,300
23	1,562,600	1,542,800	1,525,900	1,514,700	1,514,700	1,520,300	1,591,200	1,626,100	1,640,800	1,451,600	1,326,100	1,242,300
24	1,562,600	1,539,900	1,525,900	1,514,700	1,514,700	1,523,100	1,594,100	1,626,100	1,637,900	1,443,500	1,321,100	1,239,900
25	1,562,600	1,539,900	1,525,900	1,514,700	1,517,500	1,523,100	1,597,000	1,623,200	1,635,000	1,438,200	1,316,100	1,242,300
26	1,559,700	1,539,900	1,523,100	1,514,700	1,514,700	1,525,900	1,599,900	1,617,400	1,632,000	1,432,800	1,311,100	1,239,900
27	1,559,700	1,539,900	1,523,100	1,514,700	1,514,700	1,528,700	1,602,800	1,620,300	1,626,100	1,427,400	1,306,100	1,239,900
28	1,559,700	1,539,900	1,523,100	1,514,700	1,511,900	1,528,700	1,605,700	1,620,300	1,620,300	1,422,100	1,301,100	1,239,900
29	1,559,700	1,539,900	1,523,100	1,514,700	-----	1,531,500	1,605,700	1,617,400	1,617,400	1,416,800	1,296,100	1,239,900
30	1,559,700	1,537,100	1,523,100	1,514,700	-----	1,531,500	1,608,600	1,617,400	1,608,600	1,414,200	1,293,700	1,239,900
31	1,556,900	-----	1,523,100	1,514,700	-----	1,534,300	-----	1,617,400	-----	1,408,800	1,288,700	-----
MAX	1,562,600	1,556,900	1,537,100	1,523,100	1,517,500	1,534,300	1,608,600	1,626,100	1,640,800	1,602,800	1,408,800	1,283,800
MIN	1,528,700	1,537,100	1,523,100	1,509,100	1,511,900	1,498,100	1,534,300	1,608,600	1,608,600	1,408,800	1,288,700	1,239,900
WTR YEAR 1998				MEAN 1,507,843			MAX 1,640,800			MIN 1,239,900		

NORTH PLATTE RIVER BASIN

SUTHERLAND CANAL from North Platte River and Kingsley Reservoir, 00138000 - 1998

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

GAGE.--Continuous stage recorder and concrete control section

PERIOD OF RECORD.--1936 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	327	1,440	1,420	1,230	1,210	1,240	1,360	1,190	1,420	1,870	1,690	1,640
2	169	1,630	1,420	1,230	1,210	1,280	1,370	1,010	1,370	1,890	1,680	1,640
3	0	1,700	1,420	1,230	1,210	1,400	1,370	973	1,320	1,810	1,670	1,670
4	0	1,690	1,420	1,230	1,220	1,460	1,370	972	1,240	1,810	1,670	1,680
5	0	1,690	1,420	1,230	1,220	1,450	1,370	981	1,150	1,810	1,660	1,680
6	0	1,700	1,410	1,230	1,220	1,360	1,380	1,150	1,100	1,800	1,660	1,680
7	0	1,640	1,410	1,230	1,220	1,250	1,380	1,210	1,170	1,800	1,650	1,690
8	0	1,530	1,410	1,230	1,220	1,250	1,380	1,260	1,160	1,800	1,640	1,690
9	0	1,490	1,410	1,230	1,220	1,250	1,380	1,130	1,040	1,790	1,640	1,690
10	0	1,490	1,410	1,230	1,230	1,260	1,380	1,040	872	1,780	1,630	1,690
11	0	1,490	1,410	1,290	1,230	1,290	1,380	1,010	836	1,780	1,630	1,710
12	0	1,490	1,400	1,370	1,230	1,280	1,380	957	829	1,770	1,660	1,720
13	0	1,430	1,390	1,360	1,230	1,320	1,380	866	828	1,760	1,670	1,720
14	0	1,290	1,390	1,350	1,230	1,410	1,390	782	779	1,750	1,660	1,720
15	0	1,290	1,390	1,360	1,220	1,450	1,380	678	725	1,750	1,660	1,730
16	0	1,290	1,390	1,350	1,230	1,460	1,380	620	720	1,740	1,650	1,730
17	0	1,340	1,390	1,350	1,220	1,420	1,440	620	773	1,740	1,640	1,720
18	0	1,390	1,310	1,350	1,210	1,390	1,470	625	984	1,730	1,630	1,710
19	0	1,390	1,210	1,350	1,210	1,390	1,470	690	1,120	1,730	1,630	1,710
20	0	1,390	1,220	1,350	1,210	1,380	1,470	862	1,170	1,720	1,630	1,710
21	0	1,400	1,210	1,300	1,210	1,380	1,470	1,120	1,250	1,720	1,620	1,720
22	0	1,410	1,210	1,210	1,210	1,370	1,490	1,340	1,320	1,720	1,610	1,710
23	0	1,390	1,220	1,210	1,210	1,370	1,500	1,400	1,470	1,720	1,620	1,700
24	0	1,410	1,220	1,210	1,210	1,360	1,500	1,470	1,530	1,710	1,610	1,700
25	227	1,400	1,220	1,210	1,220	1,350	1,490	1,570	1,610	1,710	1,610	1,690
26	366	1,390	1,220	1,210	1,230	1,350	1,490	1,690	1,660	1,710	1,610	1,660
27	532	1,410	1,220	1,200	1,240	1,350	1,490	1,740	1,790	1,700	1,610	1,650
28	670	1,410	1,220	1,200	1,230	1,350	1,490	1,700	1,830	1,690	1,610	1,590
29	818	1,410	1,220	1,200	-----	1,360	1,490	1,580	1,840	1,690	1,610	1,470
30	998	1,420	1,220	1,210	-----	1,360	1,400	1,460	1,840	1,700	1,620	1,310
31	1,210	-----	1,230	1,210	-----	1,360	-----	1,470	-----	1,690	1,630	-----
TOTAL	5,317	43,840	41,060	39,150	34,160	41,950	42,690	35,166	36,746	54,390	50,810	50,130
MEAN	172	1,461	1,325	1,263	1,220	1,353	1,423	1,134	1,225	1,755	1,639	1,671
MAX	1,210	1,700	1,420	1,370	1,240	1,460	1,500	1,740	1,840	1,890	1,690	1,730
MIN	0	1,290	1,210	1,200	1,210	1,240	1,360	620	720	1,690	1,610	1,310
AC-FT	10,550	86,960	81,440	77,650	67,760	83,210	84,680	69,750	72,890	107,900	100,800	99,430
CAL YEAR 1997 MAX		1,820	MIN	0	AC-FT	926,100						
WTR YEAR 1998 MAX		1,890	MIN	0	AC-FT	943,000						

SOUTH PLATTE RIVER BASIN

SOUTH PLATTE SUPPLY CANAL (Korty) from South Platte River, 06764900 - 1998

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

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

PERIOD OF RECORD.--1947 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	922	453	510	850E	830S	750S	567S	747S	540S	138	0	0
2	413	290	507	916	826S	680S	575S	900S	622S	88	0	0
3	110	257	564	797	754S	731S	607S	985S	731S	59	0	0
4	64	256	600	724	687S	494S	626S	990S	685S	51	0	0
5	155	257	597	687	713S	496S	617S	985S	738S	48	0	0
6	387	256	770E	658	716S	573S	608S	845S	771S	46	0	0
7	718	256	840E	659	713S	621S	611S	823S	703S	25	0	0
8	1,010	286	470E	705	716S	651S	605S	716S	650S	0	0	0
9	1,060	437	410E	700E	716S	500E	610S	790S	585S	0	0	0
10	895E	498	470E	657	703S	575E	620S	925S	722S	0	0	0
11	971E	501	380E	448	685S	500E	633S	972S	904S	0	0	0
12	926E	491	470E	349	698S	550E	630S	982S	900S	0	0	0
13	949E	497	440E	221	703S	650E	633S	933S	946S	0	0	0
14	960E	490	300E	307	695S	561S	618S	995S	938S	0	0	0
15	950E	460E	320E	557	707S	503S	624S	964S	920S	0	0	0
16	968E	300E	440E	652	707S	498S	630S	961S	915S	0	0	0
17	950E	240E	549	800E	701S	498S	590S	967S	870S	0	0	0
18	938E	430E	594	850E	701S	506S	551S	835S	725S	0	0	0
19	861	460E	778	750E	664S	506S	553	711S	602S	0	0	29
20	846	480E	760	699S	657S	556S	550	729S	541S	0	0	33S
21	829	500E	684	740	651S	586S	544	617S	467S	0	0	92S
22	767	474	778	830E	651S	584S	531S	509S	412S	0	0	104S
23	729	474	779	830E	654S	468S	497S	452S	311S	0	0	145S
24	675	525	793	830E	648S	577S	510S	414S	223S	0	0	185S
25	685	506	640E	830E	654S	566S	508S	324	220	0	0	197S
26	615E	485	440E	830S	654S	533S	511S	297	225	0	0	195S
27	570E	480	400E	833S	611S	553S	503S	349S	210	0	0	195S
28	610E	503	450E	836S	591S	569S	495S	334S	189	0	0	238S
29	735	506	720E	836S	-----	566S	518E	381S	169	0	0	381S
30	857	507	840E	836S	-----	553S	650E	520S	154	0	0	331S
31	709	-----	850E	830S	-----	550S	-----	523S	-----	0	0	-----
TOTAL	22,834	12,555	18,143	22,047	19,406	17,504	17,325	22,475	17,588	455	0	2,125
MEAN	737	419	585	711	693	565	578	725	586	14.7	0	70.8
MAX	1,060	525	850	916	830	750	650	995	946	138	0	381
MIN	64	240	300	221	591	468	495	297	154	0	0	0
AC-FT	45,290	24,900	35,990	43,730	38,490	34,720	34,360	44,580	34,890	902	0	4,210
CAL YEAR 1997 MAX	1,060	MIN	0	AC-FT	289,700							
WTR YEAR 1998 MAX	1,060	MIN	0	AC-FT	342,100							

E indicates estimated discharge.

S indicates days when the Parshall flume was submerged.

NORTH & SOUTH PLATTE RIVER BASIN

SUTHERLAND RESERVOIR from North & South Platte Rivers, 00409100 - 1998

LOCATION.--NEL/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 WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64,113	39,820	39,300	37,496	47,063	46,380	48,855	56,074	61,093	60,734	54,020	42,477
2	63,779	39,560	39,300	38,266	47,009	45,347	48,744	56,423	61,393	60,585	53,877	42,079
3	62,718	39,898	39,586	38,524	47,200	45,401	49,244	56,453	61,243	60,286	53,791	41,841
4	61,453	40,133	39,898	39,198	47,118	45,509	49,913	56,540	61,453	60,108	53,361	41,946
5	59,572	39,898	40,081	39,612	47,283	45,672	50,108	56,628	61,633	59,632	53,218	41,788
6	58,418	40,029	39,560	39,612	47,118	46,926	50,528	56,774	61,753	60,108	51,569	41,788
7	58,153	40,290	39,300	40,185	47,338	47,393	51,118	57,330	62,355	60,794	51,315	41,762
8	58,359	40,342	39,067	40,656	47,036	47,009	51,033	57,917	63,202	60,794	52,107	41,550
9	58,123	40,604	39,067	41,024	47,200	46,107	50,893	58,507	62,899	60,197	52,078	41,682
10	56,657	40,971	38,886	40,477	47,310	46,325	51,230	58,684	63,111	60,197	52,135	41,682
11	56,949	40,342	38,421	40,656	47,530	45,455	51,569	59,187	63,051	60,137	52,277	41,656
12	56,657	41,129	37,880	40,473	47,365	45,374	52,164	59,602	62,839	60,048	52,306	41,920
13	56,365	41,129	36,985	40,604	47,338	44,860	52,419	60,048	63,596	59,572	52,362	41,920
14	55,493	41,129	36,478	40,316	47,338	45,076	52,647	60,108	63,475	59,364	51,824	41,656
15	54,625	40,081	36,552	40,055	47,228	45,482	53,075	60,257	63,111	59,068	50,500	41,682
16	53,619	39,041	37,138	40,185	47,503	45,944	53,218	59,988	62,748	58,389	50,668	41,630
17	51,852	38,395	37,752	40,604	47,448	45,754	53,561	60,375	62,506	58,005	49,188	42,026
18	51,118	38,086	38,112	41,261	47,585	45,726	53,619	60,406	62,597	57,800	48,495	42,132
19	49,578	38,086	38,498	42,238	47,365	45,917	53,762	60,495	62,446	56,423	47,943	42,185
20	48,440	37,803	39,093	43,196	46,981	46,216	53,705	59,899	62,476	55,841	47,393	42,450
21	48,440	37,931	39,508	43,730	47,091	46,762	53,963	60,197	62,084	55,841	47,420	42,185
22	47,640	38,035	39,586	44,375	46,899	46,899	54,452	60,197	62,325	56,453	47,530	42,291
23	46,462	38,035	40,081	44,833	46,817	47,200	54,366	60,167	62,054	55,783	44,590	42,610
24	43,463	38,138	40,578	45,428	46,789	47,585	54,827	59,929	61,573	56,074	45,591	42,929
25	41,788	38,189	40,107	45,428	47,310	45,076	55,116	59,424	61,063	55,899	45,509	43,169
26	41,814	38,240	39,041	45,781	47,338	49,522	55,030	59,394	60,973	55,580	44,321	43,463
27	40,630	38,730	38,524	46,218	46,899	48,053	55,638	59,810	61,063	55,783	43,784	43,543
28	39,846	38,730	37,752	46,434	46,707	48,302	55,609	60,375	61,033	54,914	44,321	43,918
29	40,290	38,705	36,985	46,571	-----	48,661	55,174	60,734	61,183	54,914	43,436	44,509
30	40,473	38,705	36,476	46,844	-----	48,606	55,493	60,704	61,003	54,625	43,169	44,402
31	40,003	-----	36,730	46,872	-----	48,634	-----	60,764	-----	54,049	42,743	-----
MAX	64,113	41,129	40,578	46,872	47,585	49,522	55,638	60,764	63,596	60,794	54,020	44,509
MIN	39,846	37,803	36,476	37,496	46,707	44,860	48,744	56,074	60,973	54,049	42,743	41,550
CAL YEAR 1997				MAX 64,900		MIN 36,500						
WTR YEAR 1998				MAX 64,113		MIN 36,476						

NORTH & SOUTH PLATTE RIVER BASIN

MALONEY RESERVOIR from North & South Platte Rivers, 00405500 - 1998

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 WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15,600	13,500	17,500	17,200	17,300	17,300	17,300	17,500	17,500	17,600	17,600	17,500
2	15,100	13,800	17,500	17,200	17,500	17,600	17,500	17,500	17,500	17,500	17,600	17,500
3	14,500	14,200	17,500	17,200	17,500	17,600	17,600	17,500	17,500	17,500	17,500	17,500
4	13,800	14,700	17,500	17,300	17,500	17,600	17,500	17,300	17,300	17,500	17,500	17,500
5	13,200	15,300	17,500	17,300	17,500	17,500	17,300	17,300	17,300	17,600	17,500	17,500
6	12,900	15,600	17,500	17,300	17,500	17,500	17,500	17,300	17,300	18,000	17,300	17,500
7	12,500	16,000	17,600	17,500	17,500	17,500	17,300	17,300	17,600	17,800	17,500	17,500
8	12,100	16,700	17,600	17,500	17,500	17,500	17,500	17,500	17,800	17,800	17,500	17,300
9	11,700	17,200	17,500	17,500	17,500	17,500	17,500	17,500	17,800	17,800	17,600	17,300
10	11,500	17,300	17,500	17,500	17,500	17,500	17,500	17,500	17,600	17,800	17,600	17,300
11	11,700	17,300	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,800	17,800	17,200
12	11,500	17,200	17,500	17,300	17,500	17,500	17,500	17,500	17,500	17,800	17,800	17,200
13	11,500	17,300	17,500	17,500	17,500	17,500	17,500	17,300	17,500	17,600	17,600	17,300
14	11,400	17,300	17,500	17,300	17,300	17,500	17,600	17,300	17,300	17,600	17,600	17,500
15	11,200	17,300	17,500	17,300	17,300	17,300	17,600	17,300	17,500	17,800	17,600	17,500
16	11,400	17,300	17,500	17,500	17,300	17,300	17,600	17,800	17,300	17,800	17,600	17,500
17	11,500	17,300	17,300	17,500	17,300	17,300	17,500	18,500	17,500	17,600	17,200	17,500
18	11,500	17,200	17,300	17,500	17,300	17,300	17,500	18,500	17,500	17,500	17,000	17,500
19	11,500	17,200	17,500	17,500	17,300	17,500	17,500	18,300	17,300	17,300	17,000	17,600
20	11,500	17,200	17,500	17,500	17,300	17,500	17,500	18,000	17,300	17,300	17,300	17,600
21	11,500	17,300	17,500	17,500	17,300	17,500	17,500	17,600	17,500	17,500	17,500	17,600
22	11,400	17,300	17,500	17,500	17,300	17,500	17,500	17,500	17,500	17,500	17,500	17,600
23	11,300	17,300	17,500	17,500	17,300	17,500	17,500	17,500	17,500	17,500	17,300	17,600
24	11,300	17,300	17,500	17,500	17,500	17,500	17,500	17,300	17,500	17,300	17,000	17,600
25	12,100	17,300	17,500	17,500	17,500	17,500	17,500	17,300	17,500	17,500	17,000	17,600
26	12,400	17,300	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,300	17,200	17,600
27	12,400	17,300	17,300	17,500	17,300	17,500	17,600	17,500	17,500	17,300	17,500	17,600
28	12,500	17,300	17,300	17,500	17,300	17,500	17,600	17,500	17,500	17,300	17,600	17,600
29	12,600	17,300	17,200	17,300	-----	17,500	17,500	17,500	17,600	17,500	17,500	17,500
30	12,800	17,500	17,200	17,300	-----	17,500	17,500	17,500	17,600	17,500	17,500	17,500
31	13,100	-----	17,200	17,300	-----	17,500	-----	17,500	-----	17,500	17,500	-----
MAX	15,600	17,500	17,600	17,500	17,500	17,600	17,600	18,500	17,800	18,000	17,800	17,600
MIN	11,200	13,500	17,200	17,200	17,300	17,300	17,300	17,300	17,300	17,300	17,000	17,200
CAL YEAR 1997			MEAN	15,460	MAX	18,600	MIN	11,200				
WTR YEAR 1998			MEAN	16,970	MAX	18,500	MIN	11,200				

NORTH & SOUTH PLATTE RIVER BASIN

SUTHERLAND POWER RETURN to the South Platte River, 00140000 - 1998

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

GAGE.--Differential pressure recorder

PERIOD OF RECORD.--1939 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,380	1,380	1,580	1,530	1,810	1,590	1,580	1,650	1,630	1,630	1,540	1,540
2	1,270	1,380	1,580	1,530	1,810	1,590	1,580	1,650	1,630	1,640	1,540	1,540
3	990	1,380	1,580	1,530	1,810	1,590	1,580	1,640	1,630	1,640	1,540	1,530
4	840	1,380	1,580	1,530	1,810	1,590	1,580	1,650	1,630	1,640	1,550	1,460
5	840	1,380	1,580	1,530	1,810	1,600	1,580	1,650	1,630	1,460	1,550	1,460
6	840	1,380	1,580	1,530	1,810	1,600	1,580	1,730	1,630	1,460	1,860	1,460
7	840	1,380	1,580	1,530	1,810	1,380	1,580	1,750	1,630	1,460	1,640	1,460
8	850	1,380	1,580	1,530	1,810	1,460	1,600	1,750	1,630	1,460	1,460	1,460
9	850	1,530	1,580	1,530	1,810	1,460	1,600	1,750	1,630	1,460	1,380	1,380
10	907	1,650	1,580	1,380	1,810	1,460	1,600	1,750	1,630	1,460	1,450	1,380
11	1,150	1,810	1,580	1,250	1,810	1,460	1,600	1,750	1,630	1,460	1,450	1,400
12	1,220	1,810	1,580	1,250	1,810	1,460	1,600	1,750	1,630	1,460	1,450	1,400
13	875	1,530	1,580	1,190	1,810	1,460	1,600	1,750	1,580	1,530	1,450	1,400
14	823	1,530	1,580	1,320	1,810	1,530	1,600	1,750	1,580	1,530	1,460	1,400
15	968	1,580	1,530	1,250	1,810	1,580	1,600	1,750	1,580	1,530	1,580	1,380
16	1,160	1,580	1,530	1,320	1,810	1,580	1,600	1,030	1,580	1,530	1,580	1,380
17	1,130	1,580	1,530	1,320	1,810	1,580	1,620	1,280	1,580	1,580	1,670	1,380
18	1,250	1,580	1,530	1,320	1,810	1,580	1,620	1,280	1,580	1,640	1,750	1,380
19	1,250	1,580	1,530	1,330	1,810	1,580	1,620	1,610	1,580	1,640	1,750	1,380
20	1,250	1,580	1,530	1,380	1,810	1,580	1,620	1,610	1,630	1,640	1,520	1,380
21	1,230	1,580	1,530	1,390	1,810	1,580	1,620	1,620	1,630	1,640	1,530	1,380
22	1,030	1,580	1,550	1,470	1,810	1,580	1,600	1,620	1,630	1,530	1,530	1,460
23	1,160	1,580	1,580	1,540	1,810	1,580	1,600	1,620	1,630	1,530	1,530	1,460
24	1,250	1,580	1,580	1,580	1,580	1,580	1,600	1,640	1,630	1,540	1,580	1,460
25	1,260	1,580	1,580	1,580	1,580	1,580	1,600	1,650	1,630	1,540	1,580	1,460
26	1,160	1,540	1,580	1,580	1,580	1,580	1,600	1,650	1,630	1,540	1,550	1,460
27	1,150	1,580	1,580	1,580	1,580	1,580	1,600	1,630	1,630	1,540	1,540	1,460
28	1,300	1,580	1,580	1,810	1,590	1,580	1,600	1,640	1,630	1,540	1,540	1,460
29	1,290	1,580	1,580	1,810	-----	1,580	1,650	1,610	1,430	1,540	1,550	1,460
30	1,290	1,580	1,530	1,810	-----	1,580	1,650	1,620	1,520	1,540	1,540	1,380
31	1,290	-----	1,580	1,810	-----	1,580	-----	1,620	-----	1,540	1,540	-----
TOTAL	34,093	46,140	48,550	46,040	49,540	48,090	48,060	50,450	48,240	47,870	48,180	42,990
MEAN	1,100	1,538	1,566	1,485	1,769	1,551	1,602	1,627	1,608	1,544	1,554	1,433
MAX	1,380	1,810	1,580	1,810	1,810	1,600	1,650	1,750	1,630	1,640	1,860	1,540
MIN	823	1,380	1,530	1,190	1,580	1,380	1,580	1,030	1,430	1,460	1,380	1,380
AC-FT	67,620	91,520	96,300	91,320	98,260	95,390	95,330	100,100	95,680	94,950	95,570	85,270
CAL YEAR 1997 MAX		1,810	MIN	816	AC-FT	1,025,000						
WTR YEAR 1998 MAX		1,860	MIN	823	AC-FT	1,107,000						

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER near Keystone, 06690500 - 1998

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 are good.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 2,760 cubic feet per second July 4, gage height 5.17 feet; no flow many days in October, January and February.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,190	811	82	94	0	41	2,090	194	95	2,180	371	755
2	2,180	809	83	90	0	149	2,010	181	135	2,440	401	608
3	1,900	676	84	91	0	267	1,860	237	133	2,550	265	466
4	1,640	278	85	89	0	172	1,770	247	135	2,670	156	323
5	1,630	91	86	89	0	140	1,750	290	137	2,670	302	248
6	1,630	93	90	90	0	198	1,750	301	145	2,590	723	218
7	1,440	91	90	91	0	268	1,700	296	146	2,590	1,040	227
8	277	91	92	91	0	273	1,650	288	79	2,470	1,250	232
9	369	89	93	92	0	266	1,660	203	39	2,380	1,260	232
10	104	92	104	91	0	267	1,650	160	69	2,300	1,160	235
11	1.0	65	115	90	0	280	1,680	158	66	2,300	1,040	245
12	0	94	116	89	0	275	1,660	139	70	2,300	872	253
13	0	96	117	89	0	273	1,460	132	67	2,270	663	259
14	0	95	117	91	0	270	1,200	207	59	2,210	603	256
15	0	93	119	89	0	262	1,120	250	60	2,170	678	213
16	0	92	118	52	0	450	991	246	61	2,220	781	182
17	0	93	117	.18	0	547	810	253	61	2,370	999	111
18	0	91	108	0	0	564	754	256	57	2,430	1,350	67
19	157	89	105	0	0	559	757	255	128	2,460	1,700	70
20	1,240	89	105	0	0	566	757	212	319	2,520	1,870	73
21	1,870	89	107	0	0	551	767	185	457	2,590	1,780	72
22	1,270	85	105	0	16	554	641	182	448	2,440	1,640	70
23	1,310	85	104	0	45	801	568	185	492	2,230	1,580	61
24	1,280	86	105	0	38	1,260	572	179	758	2,170	1,650	57
25	1,260	87	106	0	40	1,720	589	178	825	2,110	1,720	55
26	1,250	85	103	0	42	1,900	607	181	1,330	1,870	1,690	55
27	1,130	84	106	0	40	1,900	607	185	1,850	1,640	1,690	56
28	884	82	105	0	45	1,900	307	190	1,850	1,220	1,460	55
29	797	82	75	0	-----	1,910	307	135	1,820	1,030	1,110	55
30	805	81	76	0	-----	2,030	232	85	2,010	976	1,010	55
31	813	-----	94	0	-----	2,160	-----	85	-----	714	928	-----
TOTAL	27,427.0	4,864	3,112	1,408.18	266	22,773	34,276	6,275	13,901	67,080	33,742	5,864
MEAN	885	162	100	45.4	9.50	735	1,143	202	463	2,164	1,088	195
MAX	2,190	811	119	94	45	2,160	2,090	301	2,010	2,670	1,870	755
MIN	0	65	75	0	0	41	232	85	39	714	156	55
AC-FT	54,400	9,650	6,170	2,790	528	45,170	67,990	12,450	27,570	133,100	66,930	11,630
CAL YEAR 1997 TOTAL	189,942.00		MEAN	520	MAX	2,260	MIN	0	AC-FT	376,700		
WTR YEAR 1998 TOTAL	220,988.18		MEAN	605	MAX	2,670	MIN	0	AC-FT	438,300		

NORTH PLATTE RIVER BASIN

KEITH - LINCOLN COUNTY CANAL from North Platte River. 00076000 - 1998

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

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

PERIOD OF RECORD.--1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	30	102	0	60 *
2								0	30	102	0	59 *
3								0	28	104	7.5	57 *
4								6.8	29	105	47	55
5								12	29	103	53	54
6								44	29	105	74	52
7								36	28	114	72	51
8								27	.80	104	72	50
9								27	0	98	76	48
10								27	4.9	93	81	54
11								26	21	92	76	61
12								23	20	91	75	58
13								22	20	92	72	52
14								23	20	94	72	49
15								22	19	102	72	42
16								22	19	102*	71	32
17								21	19	101*	70	31
18								20	19	100*	73	31
19								26	19	102*	79	31
20								43	10	102	81	32
21								44	0	103	76	32
22								38	0	98	75	32
23								24	0	91	75	34
24								24	0	90	81	35
25								26	0	83	80	15
26								25	0	62	79	2.9
27								16	16	0	78	.96
28								2.9	62	0	75	0
29					-----			32	68	41	69 *	0
30					-----			31	88	78	66 *	0
31		-----			-----		-----	31	-----	30	64 *	-----
TOTAL								721.7	628.70	2,684	2,041.5	1,110.86
MEAN								23.3	21.0	86.6	65.9	37.0
MAX								44	88	114	81	61
MIN								0	0	0	0	0
AC-FT								1,430	1,250	5,320	4,050	2,200
CAL YEAR 1997 MAX		102	MIN	0	AC-FT	16,970						
WTR YEAR 1998 MAX		114	MIN	0	AC-FT	14,250						

* indicates days when 1.0 cubic feet per second of additional water is diverted under relocation permit.

NORTH PLATTE RIVER BASIN

NORTH PLATTE CANAL from North Platte River, 00114000 - 1998

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

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

PERIOD OF RECORD.--1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	65	42	321	0	238
2							0	60	42	325	0	234
3							0	82	44	348	0	183
4							0	97	34	331	0	150
5							0	105	26	332	0	132
6							0	118	26	309	28	130
7							0	121	27	301	135	124
8							0	102	17	286	148	112
9							0	72	4.2	279	190	115
10							0	40	5.2	269	154	109
11							0	47	6.2	266	131	86
12							0	82	5.5	259	140	75
13							0	79	5.2	251	119	75
14							0	100	4.8	255	114	63
15							0	105	4.2	273	111	54
16							0	99	1.9	270	118	53
17							0	100	0	268	129	51
18							0	99	35	263	160	31
19							0	106	73	262	205	0
20							0	110	76	287	163	0
21							0	98	88	284	150	0
22							0	78	94	162	171	0
23							0	79	81	135	188	0
24							0	78	83	130	201	0
25							0	77	110	111	205	0
26							0	76	140	60	207	0
27							48	76	191	20	188	0
28							54	77	231	0	195	0
29					-----		47	71	263	7.8	230	0
30					-----		48	65	317	28	221	0
31		-----			-----		-----	59	-----	0	230	-----
TOTAL							197	2,623	2,077.2	6,692.8	4,231	2,015
MEAN							6.57	84.6	69.2	216	136	67.2
MAX							54	121	317	348	230	238
MIN							0	40	0	0	0	0
AC-FT							391	5,200	4,120	13,280	8,390	4,000
CAL YEAR 1997	MAX	339	MIN	0	AC-FT	40,650						
WTR YEAR 1998	MAX	348	MIN	0	AC-FT	35,380						

NORTH PLATTE RIVER BASIN

PAXTON-HERSHEY CANAL from North Platte River, 00121000 - 1998

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

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

PERIOD OF RECORD.--1916, 1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	12	38	131	28	79
2							0	30	36	133	12	78
3							0	42	38	130	4.4	69
4							0	37	39	129	0	57
5							0	39	40	131	0	53
6							0	43	40	127	0	52
7							0	45	41	118	24	50
8							0	46	37	115	51	49
9							0	43	26	111	54	48
10							0	27	24	115	52	41
11							0	24	21	125	54	37
12							0	11	18	122	51	38
13							0	12	21	119	41	38
14							0	33	38	115	38	39
15							0	34	37	107	40	39
16							0	34	36	103	51	39
17							0	34	35	101	64	36
18							0	34	22	101	80	22
19							0	34	33	104	83	22
20							0	33	38	115	90	19
21							0	35	43	127	86	1.6
22							0	39	45	72	85	0
23							0	39	45	73	95	0
24							0	39	46	68	102	0
25							0	39	52	69	102	0
26							0	42	55	66	103	0
27							0	43	68	59	103	0
28							0	44	83	54	101	0
29					-----		0	44	100	49	90	0
30					-----		6.0	42	119	54	86	0
31	-----				-----		-----	38	-----	48	82	-----
TOTAL							6.0	1,091	1,314	3,091	1,852.4	906.6
MEAN							.20	35.2	43.8	99.7	59.8	30.2
MAX							6.0	46	119	133	103	79
MIN							0	11	18	48	0	0
AC-FT							12	2,160	2,610	6,130	3,670	1,800
CAL YEAR 1997 MAX	122		MIN	0	AC-FT	17,970						
WTR YEAR 1998 MAX	133		MIN	0	AC-FT	16,390						

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER near Sutherland, 06691000 - 1998

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								289	97	1,370	839	641
2								230	99	1,520	701	490
3								193	120	1,740	622	453
4								170	146	1,950	408	379
5								174	159	2,150	296	290
6								186	144	2,280	317	214
7								199	144	2,240	520	162
8								238	521	2,440	771	167
9								488	383	2,410	842	162
10								367	332	2,280	995	172
11								274	282	2,140	892	184
12								214	244	2,110	902	189
13								183	225	2,040	737	199
14								129	241	1,990	624	261
15								175	209	1,910	580	250
16								221	178	1,890	628	214
17								226	155	1,940	667	182
18								222	118	2,080	813	165
19								216	67	2,150	1,020	148
20								228	93	2,130	1,380	134
21								200	255	2,150	1,490	140
22								191	415	2,610	1,320	145
23								206	418	2,530	1,210	144
24								185	474	2,280	1,130	136
25								170	661	2,260	1,210	128
26								160	673	2,300	1,250	158
27								151	1,140	2,010	1,280	145
28								179	1,360	1,700	1,310	145
29					-----			172	1,350	1,210	1,050	151
30					-----			126	1,230	1,210	795	154
31		-----			-----		-----	93	-----	1,090	731	-----
TOTAL								6,475	11,933	62,110	27,330	6,502
MEAN								209	398	2,004	882	217
MAX								488	1,360	2,610	1,490	641
MIN								93	67	1,090	296	128
AC-FT								12,840	23,670	123,200	54,210	12,900
CAL YEAR 1997	MAX	2,950	MIN	45	AC-FT	286,800						
WTR YEAR 1998	MAX	2,610	MIN	67	AC-FT	226,800						

NORTH PLATTE RIVER BASIN

BIRDWOOD CANAL from Birdwood Creek, 00016000 - 1998

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

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

PERIOD OF RECORD.--1921 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0							0	10	33	2.2	15
2	0							0	10	34	2.2	15
3	0							0	9.2	35	1.3	13
4	0							0	9.3	34	.84	9.9
5	0							0	9.4	36	.97	10
6	0							0	8.3	35	3.1	10
7	0							0	8.0	32	3.3	11
8	0							0	14	34	3.1	11
9	0							0	1.5	34	13	11
10	0							0	.49	34	22	10
11	0							0	.33	33	22	11
12	0							0	0	31	25	11
13	0							0	0	29	22	10
14	0							0	.30	31	22	11
15	0							0	0	28	22	12
16	0							0	0	20	21	11
17	0							0	6.7	19	27	11
18	0							23	18	19	34	11
19	0							31	18	19	35	11
20	0							26	18	19	30	12
21	0							20	18	23	21	12
22	0							23	19	29	21	12
23	0							23	19	29	21	12
24	0							22	18	29	21	12
25	0							21	18	33	17	12
26	0							21	17	14	18	12
27	0							21	17	11	20	12
28	0							22	17	12	20	12
29	0				-----			16	19	12	17	12
30	0				-----			10	26	10	16	13
31	0	-----			-----		-----	10	-----	5.5	15	-----
TOTAL	0							289	329.52	796.5	519.01	347.9
MEAN	0							9.32	11.0	25.7	16.7	11.6
MAX	0							31	26	36	35	15
MIN	0							0	0	5.5	.84	9.9
AC-FT	0							573	654	1,580	1,030	690
CAL YEAR 1997	MAX	46	MIN	0	AC-FT	4,750						
WTR YEAR 1998	MAX	36	MIN	0	AC-FT	4,530						

NORTH PLATTE RIVER BASIN

BIRDWOOD CREEK near Hershey, 06692000 - 1998

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 WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								153	135	126	158	136
2								148	133	127	176	134
3								149	133	127	163	135
4								156	139	126	155	138
5								154	144	132	152	136
6								158	140	130	151	138
7								154	148	124	149	136
8								163	279	135	149	135
9								224	204	128	140	134
10								196	227	128	152	134
11								187	199	129	146	133
12								185E	170	140	159	134
13								175E	171	135	143	135
14								175E	212	135	138	146
15								175E	175	135	138	144
16								170E	166	134	138	141
17								170E	155	126	130	139
18								160E	144	123	125	141
19								155E	142	118	126	139
20								160E	143	118	148	140
21								155E	145	124	146	141
22								150E	158	126	141	140
23								145E	156	125	139	144
24								140E	155	123	138	145
25								135E	149	173	136	146
26								130E	149	178	136	147
27								125E	144	147	140	145
28								125E	142	139	136	146
29					-----			140E	145	142	136	143
30					-----			144	133	202	136	145
31	-----				-----		-----	137	-----	185	137	-----
TOTAL								4,893	4,835	4,240	4,457	4,190
MEAN								158	161	137	144	140
MAX								224	279	202	176	147
MIN								125	133	118	125	133
AC-FT								9,710	9,590	8,410	8,840	8,310

CAL YEAR 1997 MAX 208 MIN 93 AC-FT 41,200
WTR YEAR 1998 MAX 279 MIN 118 AC-FT 44,860

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

SUBURBAN CANAL from North Platte River, 00136000 - 1998

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

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

PERIOD OF RECORD.--1919, 1921 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	8.4	103	5.0	58
2								0	7.7	101	4.6	57
3								0	39	96	4.3	52
4								23	55	101	4.0	47
5								37	57	106	3.7	42
6								44	57	105	4.5	43
7								57	57	106	46	47
8								58	40	109	64	47
9								29	12	103	69	44
10								1.8	4.3	93	69	44
11								2.6	3.8	89	70	44
12								38	3.6	90	82	44
13								49	3.7	90	72	45
14								50	3.8	86	63	47
15								58	3.4	87	56	48
16								66	49	88	54	48
17								67	67	97	60	45
18								68	42	113	69	19
19								76	23	111	77	1.8
20								77	50	108	75	0
21								76	55	102	70	0
22								68	56	48	65	0
23								66	43	20	61	0
24								56	55	16	59	0
25								55	55	13	60	0
26								55	51	14	68	0
27								55	49	13	69	0
28								54	60	10	74	0
29					-----			33	67	5.4	77	0
30					-----			8.1	91	6.0	71	0
31		-----			-----		-----	8.4	-----	5.5	63	-----
TOTAL								1,335.9	1,168.7	2,234.9	1,689.1	822.8
MEAN								43.1	39.0	72.1	54.5	27.4
MAX								77	91	113	82	58
MIN								0	3.4	5.4	3.7	0
AC-FT								2,650	2,320	4,430	3,350	1,630
CAL YEAR 1997	MAX	89	MIN	0	AC-FT	13,930						
WTR YEAR 1998	MAX	113	MIN	0	AC-FT	14,380						

NORTH PLATTE RIVER BASIN

CODY-DILLON CANAL from North Platte River, 00027000 - 1998

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

GAGE.--Continuous stage recorder and concrete control

PERIOD OF RECORD.--1919, 1921 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	8.9	8.4	27	2.0	17
2							0	4.2	9.5	26	1.1	15
3							0	1.4	9.8	27	.73	13
4							0	0	12	27	.35	11
5							0	0	15	25	0	7.8
6							0	0	15	26	.07	7.6
7							0	0	14	26	2.9	6.2
8							0	.86	20	27	7.8	3.8
9							0	12	12	27	10	2.1
10							0	13	11	24	9.6	.76
11							0	9.7	11	20	9.7	0
12							0	4.1	12	15	8.9	0
13							0	.57	9.7	15	8.7	.21
14							0	0	11	12	8.8	2.8
15							0	0	11	12	9.1	4.9
16							0	0	9.4	21	9.0	2.6
17							0	0	8.4	20	9.9	0
18							0	4.3	6.7	19	10	0
19							0	11	5.4	18	12	0
20							0	12	2.6	16	16	0
21							0	12	7.5	14	14	0
22							0	13	12	12	13	0
23							0	13	12	3.9	13	0
24							0	13	9.6	3.7	13	0
25							0	12	5.6	3.5	13	0
26							0	12	3.3	3.7	13	0
27							0	12	19	3.6	14	0
28							0	12	22	3.2	21	0
29					-----		0	12	23	2.6	20	0
30					-----		1.4	11	25	2.6	19	0
31		-----			-----		-----	9.4	-----	2.9	18	-----
TOTAL							1.4	213.43	352.9	485.7	307.65	94.77
MEAN							.047	6.88	11.8	15.7	9.92	3.16
MAX							1.4	13	25	27	21	17
MIN							0	0	2.6	2.6	0	0
AC-FT							2.8	423	700	963	610	188
CAL YEAR 1997	MAX	53	MIN	0	AC-FT	1,960						
WTR YEAR 1998	MAX	27	MIN	0	AC-FT	2,890						

NORTH PLATTE RIVER BASIN

LINCOLN COUNTY DRAIN NO. 1 at North Platte, 06692500 - 1998

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 WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								41E	65E	47	86	126
2								40E	66E	44	88	120
3								39E	67E	49	79	123
4								38E	69E	51	72	109
5								38E	70E	55	71	112
6								37E	71E	61	69	105
7								36E	73E	60	95	109
8								36E	74E	67	108	112
9								35E	65E	70	109	108
10								35E	58E	61	115	113
11								34E	60E	63	93	109
12								36E	61E	75	130	103
13								38E	62E	75	114	101
14								40E	63E	77	111	105
15								42E	64E	89	114	91
16								44E	65E	81	110	87
17								46E	67E	71	89	89
18								48E	68E	80	82	86
19								50E	69E	80	85	66
20								51E	70	70	106	59
21								52E	67	72	118	57
22								53E	69	153	129	55
23								54E	67	148	118	55
24								55E	62	130	112	55
25								56E	66	135	102	54
26								58E	62	147	121	53
27								59E	64	110	121	51
28								60E	60	96	112	50
29					-----			61E	52	87	121	50
30					-----			62E	51	86	125	49
31		-----			-----		-----	64E	-----	86	122	-----
TOTAL								1,438	1,947	2,576	3,227	2,562
MEAN								46.4	64.9	83.1	104	85.4
MAX								64	74	153	130	126
MIN								34	51	44	69	49
AC-FT								2,850	3,860	5,110	6,400	5,080
CAL YEAR 1997	MAX	172	MIN	19	AC-FT	24,340						
WTR YEAR 1998	MAX	153	MIN	34	AC-FT	23,310						

E indicates estimated discharge.

NORTH PLATTE RIVER BASIN

NORTH PLATTE RIVER at North Platte, 06693000 - 1998

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

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

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

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994. Records good except estimated are records 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 2,440 cubic feet per second July 26, gage height 5.84; minimum daily discharge 304 cubic feet per second June 3.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,140	1,090	455	412	356	408	2,090	567	321	1,270	1,430	932
2	2,140	1,060	457	425	350	408	2,180	494	310	1,370	1,140	836
3	2,120	1,040	451	434	355	438	2,160	450	304	1,520	990	709
4	2,100	1,040	451	434	375	536	2,090	404	319	1,630	865	658
5	1,900	879	449	447	380	556	1,970	375	341	1,760	711	573
6	1,700	614	438	434	382	560	1,940	374	339	1,870	620	496
7	1,660	535	430E	421	377	577	1,920	396	333	1,890	609	442
8	1,650	497	430E	414	370	614	1,890	425	689	1,860	799	428
9	1,240	476	440E	390E	371	618	1,830	634	1,100	1,950	1,040	423
10	799	460	450E	380E	382	644	1,800	839	866	1,930	1,140	410
11	678	446	447	380E	377	638	1,840	624	795	1,840	1,270	404
12	859	441	461	380E	372	619	1,860	490	637	1,820	1,210	402
13	1,100	430	483	380E	362	665	1,860	438	540	1,800	1,180	403
14	836	432	472	390E	361	662	1,870	393	577	1,750	943	441
15	644	391	468	390E	359	650	1,750	358	562	1,700	834	485
16	558	412	469	400E	382	647	1,470	392	457	1,650	792	464
17	514	441	464	400E	398	658	1,370	392	407	1,640	789	426
18	487	423	448	400E	389	788	1,210	378	375	1,660	800	401
19	462	414	449	400E	373	836	1,110	350	384	1,750	943	400
20	441	415	454	400E	371	838	1,080	398	343	1,800	1,290	378
21	582	416	453	390E	374	832	1,070	420	362	1,830	1,600	365
22	1,480	426	451	390E	368	829	1,050	405	551	2,070	1,620	370
23	1,450	431	455	380E	381	832	1,020	410	644	2,370	1,470	369
24	1,410	434	438	370E	389	934	899	399	638	2,380	1,360	369
25	1,560	437	454	370E	406	1,220	899	372	714	2,290	1,300	364
26	1,450	450	460	370E	409	1,570	884	348	835	2,420	1,380	367
27	1,430	459	460	360E	409	1,890	840	344	944	2,350	1,420	377
28	1,500	453	462	350E	409	1,990	827	337	1,380	2,070	1,420	375
29	1,350	441	451	338	-----	2,000	767	393	1,410	1,740	1,390	375
30	1,170	448	439	347	-----	2,000	625	392	1,350	1,480	1,150	371
31	1,110	-----	427	355	-----	2,010	-----	342	-----	1,600	972	-----
TOTAL	38,520	16,331	14,016	12,131	10,587	28,467	44,171	13,333	18,827	57,060	34,477	13,813
MEAN	1,243	544	452	391	378	918	1,472	430	628	1,841	1,112	460
MAX	2,140	1,090	483	447	409	2,010	2,180	839	1,410	2,420	1,620	932
MIN	441	391	427	338	350	408	625	337	304	1,270	609	364
AC-FT	76,400	32,390	27,800	24,060	21,000	56,460	87,610	26,450	37,340	113,200	68,390	27,400
CAL YEAR 1997 TOTAL		260,680	MEAN	714	MAX	2,140	MIN	284	AC-FT	517,100		
WTR YEAR 1998 TOTAL		301,733	MEAN	827	MAX	2,420	MIN	304	AC-FT	598,500		

E indicates estimated discharge.

SOUTH PLATTE RIVER BASIN

LODGEPOLE CREEK above Oliver Reservoir, 06762500 - 1998

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 WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								4.7	3.7	3.9	2.7	1.3
2								4.6	3.6	3.4	2.6	1.2
3								4.6	3.6	3.9	2.7	1.1
4								4.5	3.8	3.9	2.8	.99
5								4.3	4.1	3.8	2.9	.90
6								4.4	4.3	3.5	2.8	.96
7								4.4	4.6	3.4	2.8	1.0
8								4.3	4.8	3.3	2.8	1.1
9								4.2	4.8	3.7	2.8	1.2 E
10								4.2	4.7	3.6	2.8	1.2 E
11								4.1	4.5	3.4	2.8	1.3 E
12								4.1	4.5	3.2	2.7	1.4 E
13								4.1	4.4	2.9	2.6	1.4 E
14								4.1	4.3	2.8	2.5	1.5 E
15								4.1	4.3	2.6	2.5	1.6 E
16								4.1	4.1	2.9	2.5	1.6 E
17								4.1	4.0	2.7	2.3	1.7 E
18								4.1	4.1	2.3	2.4	1.8 E
19								4.1	4.0	2.1	2.4	1.8 E
20								4.2	4.0	1.8	2.3	1.9 E
21								4.1	4.0	1.9	2.3	2.0 E
22								4.0	3.8	2.1	2.2	2.0 E
23								4.0	3.7	2.2	2.2	2.1 E
24								4.0	3.7	2.2	1.9	2.2 E
25								4.0	3.8	2.1	1.9	2.3 E
26								3.9	3.9	2.4	1.7	2.3 E
27								4.0	3.9	2.5	1.7	2.4 E
28								4.1	3.9	2.5	1.5	2.5 E
29					-----			3.9	3.9	2.6	1.4	2.5 E
30					-----			3.6	4.2	2.7	1.4	2.6 E
31		-----			-----		-----	3.6	-----	2.7	1.4	-----
TOTAL								128.4	123.0	89.0	72.3	49.85
MEAN								4.14	4.10	2.87	2.33	1.66
MAX								4.7	4.8	3.9	2.9	2.6
MIN								3.6	3.6	1.8	1.4	.90
AC-FT								255	244	177	143	99
CAL YEAR 1997 MAX	37		MIN	1.9	AC-FT	1,470						
WTR YEAR 1998 MAX	4.8		MIN	.90	AC-FT	917						

E indicates estimated discharge.

SOUTH PLATTE RIVER BASIN

OLIVER RESERVOIR on Lodgepole Creek, 00407000 - 1998

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

GAGE.--Staff gage

PERIOD OF RECORD.--1977 - present

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

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								2,678		2,497		
2	2,380											
3												
4											2,384	
5												
6												
7												
8									2,601			2,146
9												
10												
11												
12												
13		2,410										
14												
15				2,698			2,712					
16												
17											2,337	
18								2,665				
19												
20										2,410		
21												
22												
23												
24												
25												
26												
27												
28												
29								2,647				
30												
31		-----										-----

SOUTH PLATTE RIVER BASIN

LOGEPOLE CREEK below Oliver Reservoir, 00219000 - 1998

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

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

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								1.1	.98	.38	.38	.18
2								.97	.29	.37	.42	.25
3								1.1	.31	.36	.37	.12
4								1.2	.34	.30	.32	.12
5								1.5	.30	.32	.32	.15
6								1.7	.27	.31	.31	.24
7								1.6	.24	.34	.23	.24
8								1.9	.32	.32	.30	.25
9								1.9	.30	.37	.35	.26
10								1.6	.31	.29	.27	.24
11								2.2	.38	.28	.26	.24
12								1.9	.29	.26	.23	.21
13								1.8	.31	.24	.20	.29
14								2.0	.28	.28	.19	.25
15								2.6	.26	.27	.17	.30
16								.80	.30	.31	.12	.30
17								.69	.35	.28	.19	.30
18								.49	.62	.28	.15	.30
19								.44	.21	.26	.21	.30
20								.43	.14	.26	.23	.35
21								.40	.18	.28	.24	.49
22								.45	.21	.35	.30	.39
23								.72	.21	.35	.27	.33
24								.43	.23	.42	.21	.28
25								.39	.24	.50	.24	.30
26								.31	.25	.47	.24	.35
27								.34	.18	.37	.24	.30
28								.27	.25	.36	.21	.30
29					-----			.31	.24	.39	.24	.30
30					-----			.39	.26	.40	.24	.30
31		-----			-----		-----	.31	-----	.35	.24	-----
TOTAL								32.44	9.05	10.32	7.89	8.23
MEAN								1.05	.30	.33	.25	.27
MAX								2.6	.98	.50	.42	.49
MIN								.27	.14	.24	.12	.12
AC-FT								64	18	20	16	16
CAL YEAR 1997	MAX	239	MIN	.06	AC-FT	2,060						
WTR YEAR 1998	MAX	2.6	MIN	.12	AC-FT	135						

SOUTH PLATTE RIVER BASIN

WESTERN CANAL from South Platte River, 00147000 - 1998

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105							0	80	165	60	52
2	86							0	106	149	96	54
3	75							0	93	125	125	63
4	63							9.3	77	103	131	71
5	61							164	66	83	124	104
6	60							134	54	77	129	143
7	69							142	77	44	146	138
8	54							119	78	56	149	146
9	33							138	59	79	138	143
10	38							116	84	61	114	114
11	50							105	109	66	136	125
12	63							141	96	91	128	123
13	53							137	70	98	112	112
14	41							145	68	77	109	99
15	40							140	67	116	100	82
16	34							149	69	110	89	89
17	16							164	59	93	96	76
18	5.7							160	54	119	111	98
19	0							147	46	117	113	99
20	0							102	35	78	108	91
21	0							19	25	74	98	87
22	0							0	7.3	94	91	90
23	0							0	0	44	74	114
24	0							0	0	128	77	110
25	0							0	0	27	78	106
26	0							0	46	61	88	107
27	0							0	94	58	85	86
28	0							55	89	79	75	86
29	0				-----			114	159	113	69	95
30	0				-----			78	162	108	49	79
31	0	-----			-----		-----	68	-----	135	54	-----
TOTAL	946.7							2,546.3	2,031.3	2,828	3,152	2,982
MEAN	30.5							82.1	67.7	91.2	102	99.4
MAX	105							164	162	165	149	146
MIN	0							0	0	27	49	52
AC-FT	1,880							5,050	4,030	5,610	6,250	5,910
CAL YEAR 1997	MAX	192	MIN	0	AC-FT	33,640						
WTR YEAR 1998	MAX	165	MIN	0	AC-FT	28,730						

SOUTH PLATTE RIVER BASIN

SOUTH PLATTE RIVER at North Platte, 06765500 - 1998

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

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,660 cubic feet per second June 11, gage height 7.70 feet; maximum gage height 12.43 feet January 11 due to backwater from ice; minimum daily discharge 118 cubic feet per second September 9.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	453	601	759	710E	980E	463	874	1,250	651	385	1,150	160
2	445	829	767	608	990E	453	897	1,230	596	367	1,170	166
3	648	1,020	761	683	990E	596	876	936	544	375	1,050	159
4	848	1,120	780	765	983	506	821	720	610	364	970	156
5	928	1,120	814	827	1,010	449	851	618	630	352	913	143
6	860	1,100	774	918	970	568	853	558	594	360	898	142
7	694	1,040	760E	887	963	537	866	556	540	316	876	156
8	510	939	740E	880E	939	500E	877	541	760	315	803	148
9	426	803	780E	860E	952	750E	913	674	1,010	319	669	118
10	421	733	800E	840E	939	750E	834	692	1,370	315	616	129
11	398	729	780E	750E	933	700E	737	712	1,620	293	603	133
12	531	788	800E	800E	862	720E	693	963	1,320	302	614	143
13	692	788	820E	840E	850E	650E	678	1,090	1,090	292	613	155
14	675	818	840E	880E	800E	557	682	1,240	1,030	280	672	176
15	593	800E	840E	900E	700E	496	664	1,060	936	251	602	203
16	558	760E	800E	960E	600E	524	601	912	850	210	530	200
17	518	700E	760E	980E	500E	500	531	754	726	187	473	203
18	447	800E	700E	1,000E	450E	462	542	615	627	199	423	237
19	371	860E	660E	1,020E	419	464	547	494	542	198	386	244
20	335	900E	633	1,060E	420	473	537	466	526	205	350	231
21	323	914	664	1,060E	416	389	620	475	515	215	285	262
22	302	908	738	1,060E	403	351	748	521	510	401	295	234
23	283	921	704	1,040E	447	370	956	525	488	303	281	278
24	285	875	714	1,040E	471	379	1,120	447	488	254	264	276
25	314	866	721	1,040E	486	407	1,040	451	485	290	237	255
26	306	827	700E	1,020E	513	548	948	412	480	326	206	286
27	353	743	700E	1,020E	429	617	943	363	489	461	164	343
28	482	744	720E	1,000E	396	597	932	419	489	642	170	377
29	451	748	720E	1,000E	-----	602	970	737	503	970	160	395
30	414	777	740E	980E	-----	679	1,030	759	453	1,080	159	286
31	467	-----	760E	980E	-----	837	-----	694	-----	1,050	156	-----
TOTAL	15,331	25,571	23,249	28,408	19,811	16,894	24,181	21,884	21,472	11,877	16,758	6,394
MEAN	495	852	750	916	708	545	806	706	716	383	541	213
MAX	928	1,120	840	1,060	1,010	837	1,120	1,250	1,620	1,080	1,170	395
MIN	283	601	633	608	396	351	531	363	453	187	156	118
AC-FT	30,410	50,720	46,110	56,350	39,300	33,510	47,960	43,410	42,590	23,560	33,240	12,680
CAL YEAR 1997	TOTAL	345,230	MEAN	946	MAX	9,530	MIN	213	AC-FT	684,800		
WTR YEAR 1998	TOTAL	231,830	MEAN	635	MAX	1,620	MIN	118	AC-FT	459,800		

E indicates estimated discharge.

PLATTE RIVER BASIN

TRI-COUNTY CANAL from Platte River, 00142000 - 1998

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,220	2,200	2,180	2,180	2,230	2,190	2,200	2,210	2,190	2,220	2,200	2,210
2	2,220	2,220	2,180	2,190	2,220	2,170	2,200	2,220	2,180	2,230	2,200	2,210
3	2,210	2,210	2,170	2,180	2,220	2,190	2,200	2,200	2,180	2,220	2,200	2,210
4	2,200	2,190	2,180	2,160	2,220	2,180	2,200	2,200	2,200	2,230	2,210	2,210
5	2,180	2,200	2,160	2,190	2,210	2,170	2,210	2,210	2,190	2,220	2,190	2,210
6	2,190	2,190	2,170	2,190	2,200	2,190	2,210	2,210	2,190	2,230	2,210	2,210
7	2,170	2,200	2,180	2,200	2,190	2,170	2,210	2,220	2,190	2,230	2,210	2,220
8	2,200	2,190	2,170	2,220	2,190	2,160	2,200	2,200	2,210	2,220	2,200	2,180
9	2,200	2,190	2,180	2,180	2,190	2,060	2,190	2,200	2,200	2,230	2,200	2,170
10	2,200	2,190	2,190	1,860	2,210	1,930	2,190	2,190	2,210	2,220	2,210	2,110
11	2,180	2,170	2,170	1,730	2,210	1,730	2,190	2,190	2,190	2,210	2,210	2,090
12	2,210	2,180	2,070	1,610	2,200	1,860	2,180	2,190	2,190	2,210	2,200	2,080
13	2,210	2,180	1,650	1,500	2,210	2,170	2,200	2,200	2,170	2,210	2,190	2,110
14	2,200	2,190	1,480	1,360	2,220	2,180	2,220	2,210	2,190	2,210	2,200	2,220
15	2,200	1,630	1,940	1,490	2,200	2,210	2,200	2,180	2,180	2,190	2,200	2,210
16	2,210	1,550	2,200	1,620	2,210	2,220	2,210	2,190	2,160	2,210	2,220	2,210
17	2,200	1,730	2,190	1,700	2,200	2,210	2,220	2,200	2,180	2,220	2,210	2,220
18	2,200	1,980	2,200	1,730	2,210	2,190	2,210	2,210	2,190	2,220	2,230	2,210
19	2,210	2,180	2,190	1,830	2,200	2,190	2,210	2,210	2,180	2,220	2,230	2,210
20	2,210	2,190	2,200	1,860	2,210	2,190	2,210	2,210	2,170	2,230	2,220	2,160
21	2,210	2,180	2,210	1,940	2,190	2,180	2,210	2,210	2,190	2,210	2,210	2,170
22	2,200	2,180	2,210	2,030	2,220	2,180	2,220	2,210	2,190	2,200	2,200	2,220
23	2,190	2,180	2,200	2,110	2,210	2,190	2,230	2,210	2,180	2,230	2,200	2,210
24	2,180	2,170	2,210	2,150	2,190	2,190	2,220	2,210	2,170	2,210	2,210	2,210
25	2,170	2,180	2,190	2,180	2,170	2,190	2,220	2,210	2,200	2,210	2,210	2,200
26	2,170	2,180	2,190	2,190	2,170	2,190	2,210	2,210	2,210	2,210	2,210	2,200
27	2,180	2,170	2,210	2,220	2,180	2,180	2,200	2,210	2,200	2,210	2,220	2,200
28	2,200	2,170	2,180	2,210	2,180	2,190	2,200	2,220	2,220	2,210	2,220	2,200
29	2,190	2,150	2,160	2,220	-----	2,190	2,210	2,220	2,210	2,210	2,210	2,180
30	2,190	2,180	2,130	2,220	-----	2,200	2,220	2,190	2,200	2,200	2,200	2,090
31	2,190	-----	2,160	2,230	-----	2,200	-----	2,190	-----	2,200	2,200	-----
TOTAL	68,090	63,700	66,100	61,680	61,660	66,640	66,200	68,340	65,710	68,680	68,430	65,540
MEAN	2,196	2,123	2,132	1,990	2,202	2,150	2,207	2,205	2,190	2,215	2,207	2,185
MAX	2,220	2,220	2,210	2,230	2,230	2,220	2,230	2,220	2,220	2,230	2,230	2,220
MIN	2,170	1,550	1,480	1,360	2,170	1,730	2,180	2,180	2,160	2,190	2,190	2,080
AC-FT	135,100	126,300	131,100	122,300	122,300	132,200	131,300	135,600	130,300	136,200	135,700	130,000
CAL YEAR 1997	MAX	2,240	MIN	1,160	AC-FT	1,527,000						
WTR YEAR 1998	MAX	2,230	MIN	1,360	AC-FT	1,568,000						

PLATTE RIVER BASIN

JEFFREY RESERVOIR from Platte River, 00403700 - 1998

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1977 - present

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

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

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,457	5,677	5,237	5,402	5,622	5,347	4,812	5,512	5,732	5,732	5,677	5,732
2	5,182	5,567	5,237	5,402	5,567	5,237	4,662	5,567	5,622	5,787	5,732	5,732
3	5,017	5,512	5,182	5,457	5,457	5,182	4,362	5,512	5,567	5,787	5,842	5,732
4	4,812	5,402	5,182	5,347	5,402	5,182	4,162	5,512	5,622	5,787	5,897	5,732
5	4,612	5,292	5,182	5,292	5,292	5,182	3,962	5,567	5,677	5,732	5,842	5,732
6	4,462	5,292	5,182	5,237	5,237	5,182	3,677	5,567	5,732	5,732	5,842	5,732
7	4,162	5,347	5,347	5,457	5,292	5,182	3,534	5,567	5,787	5,732	5,787	5,732
8	3,914	5,347	5,457	5,402	5,237	5,402	3,439	5,567	5,897	5,677	5,787	5,622
9	3,629	5,237	5,622	5,402	5,237	5,512	3,249	5,567	5,787	5,677	5,787	5,567
10	3,439	5,237	5,512	5,447	5,292	5,237	3,439	5,567	5,952	5,677	5,787	5,622
11	3,202	5,182	5,402	5,182	5,292	5,237	3,297	5,567	5,842	5,732	5,787	5,622
12	3,249	5,237	5,237	5,237	5,292	5,347	3,392	5,402	5,787	5,787	5,787	5,677
13	3,107	5,237	5,282	5,182	5,237	5,457	4,362	5,292	5,732	5,787	5,787	5,732
14	3,107	5,237	5,017	5,182	5,292	5,512	4,962	5,182	5,622	5,842	5,787	5,787
15	3,154	4,912	5,182	5,017	5,292	5,512	5,017	5,127	5,567	5,787	5,732	5,732
16	3,154	5,347	5,347	4,912	5,292	5,512	5,072	4,962	5,622	5,787	5,787	5,732
17	3,107	5,292	5,402	5,017	5,182	5,457	5,127	4,812	5,677	5,732	5,787	5,677
18	3,154	5,292	5,457	5,017	5,127	6,062	5,182	4,812	5,732	5,732	5,732	5,622
19	3,154	5,292	5,292	5,017	5,182	6,007	5,237	4,812	5,732	5,677	5,732	5,622
20	3,107	5,237	5,237	5,182	5,182	5,952	5,237	5,897	5,787	5,787	5,732	5,622
21	4,312	5,182	5,292	5,347	5,237	5,952	5,292	5,787	5,842	5,787	5,787	5,787
22	5,512	5,182	5,237	5,567	5,237	5,952	5,347	5,677	5,897	5,787	5,787	5,842
23	6,062	5,182	5,292	5,897	5,237	5,952	5,512	5,677	5,897	5,787	5,787	5,677
24	6,007	5,182	5,292	6,062	5,292	6,349	5,457	5,677	5,787	5,842	5,897	5,622
25	5,952	5,182	5,237	6,007	5,347	6,234	5,567	5,677	5,787	5,842	5,897	5,622
26	6,007	5,182	5,237	5,897	5,292	6,119	5,512	5,677	5,842	5,787	5,952	5,622
27	5,952	5,127	5,512	5,897	5,347	5,952	5,457	5,842	5,842	5,787	5,897	5,567
28	5,842	5,237	5,677	5,787	5,402	5,677	5,457	5,842	5,842	5,787	5,842	5,402
29	5,787	5,292	5,677	5,677	-----	5,512	5,512	5,787	5,787	5,842	5,787	5,292
30	5,787	5,292	5,457	5,622	-----	5,292	5,512	5,787	5,732	5,897	5,732	5,017
31	5,732	-----	5,457	5,567	-----	5,072	-----	5,732	-----	5,787	5,732	-----
MAX	6,062	5,677	5,677	6,062	5,622	6,349	5,567	5,897	5,952	5,897	5,952	5,842
MIN	3,107	4,912	5,017	4,912	5,127	5,072	3,249	4,812	5,567	5,677	5,677	5,017
WTR YEAR 1998			MEAN	5,381	MAX	6,349	MIN	3,107				

PLATTE RIVER BASIN

JEFFREY POWER RETURN to Platte River, 00143000 - 1998

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	128	0	0
2	0	0	0	0	0	0	0	0	0	266	0	0
3	0	0	0	0	0	0	0	0	0	186	0	0
4	0	0	0	0	0	0	0	0	0	116	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	13	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	14	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	20	0
17	0	0	0	0	0	0	0	0	0	19	146	0
18	0	0	0	0	0	0	0	0	0	16	227	0
19	0	0	0	0	0	0	0	0	0	6.0	209	0
20	0	0	0	0	0	0	0	0	0	0	53	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	142	0	0	0	0	0	0	0	0
25	0	0	0	282	0	0	0	0	0	0	0	0
26	0	0	0	258	0	0	0	0	28	0	0	0
27	0	0	0	123	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	0	0	805	0	0	0	0	28	751.0	668	0
MEAN	0	0	0	26.0	0	0	0	0	.93	24.2	21.5	0
MAX	0	0	0	282	0	0	0	0	28	266	227	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	1,600	0	0	0	0	56	1,490	1,320	0
CAL YEAR 1997	MAX	360	MIN	0	AC-FT	5,300						
WTR YEAR 1998	MAX	282	MIN	0	AC-FT	4,470						

PLATTE RIVER BASIN

ELWOOD RESERVOIR from Platte River, 00403300 - 1998

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1978 - present

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

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

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

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17,730	16,540	15,330	14,750	13,750	12,910	20,960	29,470	35,790	33,420	23,990	13,690
2	17,660	16,470	15,330	14,690	13,690	12,850	21,190	29,660	36,010	32,890	23,990	13,390
3	17,660	16,400	15,270	14,620	13,630	12,850	21,590	29,960	36,120	32,480	23,910	13,030
4	17,590	16,330	15,200	14,620	13,630	12,790	21,920	30,150	36,230	32,070	23,490	12,790
5	17,520	16,330	15,200	14,560	13,570	12,790	22,160	30,350	36,340	31,760	23,060	12,730
6	17,450	16,270	15,140	14,560	13,570	12,730	22,570	30,650	36,560	31,350	22,730	12,680
7	17,450	16,200	15,070	14,500	13,510	12,730	22,900	30,850	36,780	30,950	22,400	12,680
8	17,370	16,200	15,070	14,500	13,510	12,680	23,150	31,150	36,900	30,450	22,000	12,620
9	17,300	16,130	15,070	14,430	13,450	12,680	23,480	31,350	37,010	30,150	21,670	12,560
10	17,300	16,130	15,010	14,430	13,450	12,680	23,740	31,550	37,240	29,860	21,350	12,560
11	17,230	16,060	14,940	14,370	13,450	12,730	24,080	31,860	37,350	29,660	20,960	12,500
12	17,370	16,000	14,940	14,370	13,390	12,910	24,340	32,070	37,460	29,470	20,640	12,500
13	17,300	16,000	15,010	14,310	13,390	13,150	24,600	32,270	37,570	29,270	20,260	12,440
14	17,230	15,930	15,270	14,240	13,330	13,570	24,940	32,480	37,460	29,080	19,950	12,680
15	17,160	15,860	15,330	14,240	13,330	14,060	25,210	32,690	37,460	28,600	19,570	13,090
16	17,090	15,860	15,270	14,180	13,270	14,690	25,470	32,890	37,570	28,220	19,190	13,390
17	17,090	15,800	15,270	14,180	13,270	15,010	25,830	33,100	37,690	27,850	18,820	13,810
18	17,020	15,800	15,200	14,120	13,270	15,400	26,100	33,310	37,800	27,380	18,450	14,240
19	16,950	15,730	15,200	14,120	13,210	16,060	26,370	33,630	37,920	27,010	18,090	14,430
20	16,950	15,660	15,140	14,060	13,210	16,470	26,640	33,730	37,800	26,550	17,660	14,820
21	16,880	15,660	15,070	14,060	13,150	16,880	26,920	34,050	37,690	26,190	17,300	15,730
22	16,820	15,600	15,070	14,000	13,150	17,230	27,100	34,270	37,460	25,830	17,020	16,130
23	16,820	15,600	15,010	14,000	13,090	17,660	27,380	34,370	37,240	25,470	16,610	16,470
24	16,820	15,530	15,010	13,940	13,090	18,020	27,660	34,590	36,780	25,120	16,270	16,880
25	16,820	15,530	15,010	13,940	13,030	18,380	27,940	34,810	36,340	24,860	15,930	17,300
26	16,750	15,460	14,940	13,870	13,030	18,220	28,220	34,910	35,900	24,770	15,600	17,660
27	16,700	15,400	14,880	13,870	12,970	19,190	28,410	35,130	35,460	24,510	15,270	18,020
28	16,680	15,400	14,880	13,870	12,970	19,570	28,700	35,240	34,910	24,340	14,940	18,160
29	16,680	15,400	14,820	13,810	-----	19,950	28,990	35,350	34,480	24,250	14,880	18,090
30	16,610	15,330	14,820	13,810	-----	20,020	29,180	35,560	33,950	24,170	14,310	18,020
31	16,540	-----	14,750	13,750	-----	20,640	-----	35,680	-----	24,080	14,060	-----
MAX	17,730	16,540	15,330	14,750	13,750	20,640	29,180	35,680	37,920	33,420	23,990	18,160
MIN	16,540	15,330	14,750	13,750	12,970	12,680	20,960	29,470	33,950	24,080	14,060	12,440
CHANGE	-1,260	-1,210	-580	-1,000	-780	7,670	8,540	6,500	-1,730	-9,870	-10,020	3,960
CAL YEAR 1997			MEAN	20,003	MAX	38,100	MIN	11,900				
WTR YEAR 1998			MEAN	20,668	MAX	37,920	MIN	12,440				

PLATTE RIVER BASIN

JOHNSON RESERVOIR from Platte River, 00403800 - 1998

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1977 - present

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

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

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37,705	44,935	43,435	40,290	39,820	40,760	43,185	43,185	44,685	42,685	44,685	43,685
2	38,410	45,185	43,185	40,525	39,820	40,760	43,685	42,435	44,685	42,185	45,185	43,435
3	38,410	45,435	43,435	40,290	39,820	40,525	42,935	42,435	44,185	41,465	44,935	42,935
4	38,410	45,185	43,435	40,525	40,055	40,525	43,435	41,935	44,185	41,230	45,185	43,435
5	38,645	45,185	42,935	40,525	40,055	40,525	43,185	41,700	44,435	41,700	44,935	43,435
6	40,055	45,185	43,185	40,525	40,055	40,525	43,185	41,700	44,435	42,185	44,935	42,935
7	40,525	45,185	42,935	40,525	40,290	40,760	43,435	41,230	43,935	42,685	44,435	43,185
8	40,760	44,935	42,685	40,525	40,290	40,760	43,435	40,760	44,435	42,935	43,935	43,185
9	41,700	44,935	42,435	40,525	40,525	40,760	43,185	41,465	44,185	43,435	44,185	43,185
10	41,230	44,935	42,185	40,055	40,525	40,525	43,185	41,465	44,435	43,935	43,685	43,685
11	41,700	44,935	42,185	39,115	40,525	40,055	42,685	41,465	44,685	44,185	43,435	42,685
12	42,935	44,935	42,935	38,410	40,525	38,880	42,685	41,230	44,185	43,685	43,685	42,935
13	42,685	44,935	42,935	38,410	40,760	37,705	42,185	41,465	44,685	43,935	42,935	42,435
14	43,185	44,935	42,435	37,940	40,760	37,015	41,465	41,230	44,935	44,435	42,185	42,185
15	45,185	44,685	40,525	37,940	40,760	36,575	41,230	42,185	45,185	43,935	42,685	41,935
16	45,185	43,935	39,820	37,940	40,760	38,880	41,700	42,185	44,435	43,685	41,935	41,700
17	45,185	42,435	40,055	38,410	40,760	42,435	42,185	41,935	44,185	43,435	42,435	40,995
18	45,185	41,935	40,290	38,880	40,995	45,935	42,185	42,685	43,935	43,435	42,435	40,995
19	45,185	41,935	40,525	39,585	40,995	46,185	41,269	43,685	42,435	43,435	41,465	40,290
20	45,185	42,435	40,760	39,585	40,995	45,435	41,465	42,435	42,435	43,185	41,465	40,055
21	45,185	42,685	40,995	39,115	40,995	44,935	41,935	42,435	41,700	42,685	41,935	39,115
22	44,435	42,435	41,230	39,350	41,230	44,435	42,435	43,185	41,230	43,185	42,435	38,645
23	43,185	42,685	40,995	39,350	40,995	44,185	42,435	44,185	41,935	43,435	42,685	38,410
24	43,185	42,685	41,230	39,585	40,995	43,685	43,185	44,185	41,700	43,935	42,935	38,175
25	43,685	42,685	41,230	39,820	41,230	42,935	43,685	44,185	41,465	44,435	43,185	38,175
26	43,935	43,185	41,230	39,585	40,995	43,185	43,685	44,935	42,185	44,685	43,685	37,705
27	44,185	42,935	40,995	39,585	40,995	42,685	43,935	44,685	41,700	44,685	43,935	37,705
28	43,935	43,185	40,995	39,585	40,995	43,185	43,935	44,435	42,185	43,935	44,685	39,820
29	44,435	43,435	40,525	39,585	-----	42,935	42,935	44,685	42,935	44,935	44,185	41,700
30	44,435	43,435	40,290	39,585	-----	43,185	43,185	44,935	42,185	44,685	44,185	42,435
31	44,685	-----	40,290	39,820	-----	43,435	-----	44,435	-----	44,435	43,435	-----
MAX	45,185	45,435	43,435	40,525	41,230	46,185	43,935	44,935	45,185	44,935	45,185	43,685
MIN	37,705	41,935	39,820	37,940	39,820	36,575	41,230	40,760	41,230	41,230	41,465	37,705
WTR YEAR 1998			MEAN	42,297		MAX	46,185	MIN	36,575			

PLATTE RIVER BASIN

PHELPS COUNTY CANAL from Platte River via Tri-County Canal, 00122000 - 1998

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	135	218	1,190	238	246
2	0	0	0	0	0	0	0	145	218	1,170	179	220
3	0	0	0	0	0	0	0	146	217	1,180	164	203
4	0	0	0	0	0	0	0	160	219	1,070	164	177
5	0	0	0	0	0	0	0	170	219	800	164	93
6	0	0	0	0	0	0	0	170	238	663	164	87
7	0	0	0	0	0	0	0	170	216	555	186	68
8	0	0	0	0	0	0	0	188	187	644	235	25
9	0	0	0	0	0	0	0	194	192	525	239	0
10	0	0	0	0	0	0	0	187	210	275	273	0
11	0	0	0	0	0	0	0	178	218	231	342	0
12	0	0	0	0	0	0	0	182	214	295	439	0
13	0	0	0	0	0	0	0	204	212	314	488	0
14	0	0	0	0	0	0	0	214	198	391	585	0
15	0	0	0	0	0	0	29	225	190	651	618	0
16	0	0	0	0	0	0	50	230	241	799	670	0
17	0	0	0	0	0	0	50	263	262	997	860	0
18	0	0	0	0	0	0	57	231	275	1,070	1,030	0
19	0	0	0	0	0	0	60	227	376	1,060	1,130	0
20	0	0	0	0	0	0	60	243	416	1,100	1,130	0
21	0	0	0	0	0	0	80	245	434	1,190	1,030	0
22	0	0	0	0	0	0	100	128	543	1,140	899	0
23	0	0	0	0	0	0	106	109	699	996	886	0
24	0	0	0	0	0	0	106	193	749	863	776	0
25	0	0	0	0	0	0	106	223	861	597	617	0
26	0	0	0	0	0	0	106	238	984	365	553	0
27	0	0	0	0	0	0	106	229	1,100	357	465	0
28	0	0	0	0	0	0	115	228	1,120	307	378	0
29	0	0	0	0	-----	0	121	226	1,130	288	291	0
30	0	0	0	0	-----	0	121	226	1,230	190	279	0
31	0	-----	0	0	-----	0	-----	220	-----	201	280	-----
TOTAL	0	0	0	0	0	0	1,373	6,127	13,586	21,474	15,752	1,119
MEAN	0	0	0	0	0	0	45.8	198	453	693	508	37.3
MAX	0	0	0	0	0	0	121	263	1,230	1,190	1,130	246
MIN	0	0	0	0	0	0	0	109	187	190	164	0
AC-FT	0	0	0	0	0	0	2,720	12,150	26,950	42,590	31,240	2,220
CAL YEAR 1997	MAX	1,290	MIN	0	AC-FT	148,500						
WTR YEAR 1998	MAX	1,230	MIN	0	AC-FT	117,900						

PLATTE RIVER BASIN

JOHNSON POWER RETURN to Platte River, 00144000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1941 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	1,760	1,840	1,870	1,880	1,880	1,760	1,530	1,360	0	1,170	1,280
2	1,000	1,760	1,850	1,870	1,880	1,880	1,760	1,530	1,360	89	1,240	1,400
3	1,720	1,760	1,830	1,860	1,880	1,880	1,760	1,540	1,360	226	1,400	1,400
4	1,720	1,770	1,850	1,860	1,880	1,880	1,760	1,520	1,380	184	1,520	1,440
5	1,720	1,860	1,860	1,850	1,880	1,880	1,680	1,500	1,390	251	1,540	1,500
6	936	1,860	1,860	1,880	1,870	1,880	1,750	1,500	1,370	163	1,540	1,530
7	1,730	1,860	1,850	1,870	1,870	1,880	1,760	1,340	1,390	517	1,480	1,540
8	1,740	1,860	1,850	1,870	1,870	1,880	1,750	1,330	1,270	413	1,380	1,620
9	1,540	1,860	1,870	1,860	1,870	1,370	1,770	1,330	1,460	511	1,370	1,490
10	1,730	1,860	1,860	1,860	1,870	1,830	1,770	1,340	1,420	762	1,220	1,670
11	1,730	1,860	1,870	1,850	1,870	1,880	1,770	1,340	1,420	801	1,070	1,710
12	1,730	1,860	1,410	1,550	1,880	1,880	1,760	1,410	1,410	951	975	1,680
13	1,750	1,870	1,740	1,230	1,880	1,890	1,770	1,340	1,370	997	904	1,700
14	1,760	1,870	1,800	1,230	1,880	1,880	1,760	1,230	1,390	653	781	1,580
15	1,770	1,860	1,830	1,130	1,880	1,880	1,500	1,220	1,420	409	732	1,730
16	1,770	1,870	1,730	992	1,860	494	1,340	1,250	1,480	401	557	1,720
17	1,770	1,750	1,640	1,030	1,860	0	1,370	1,230	1,460	219	295	1,720
18	1,780	1,640	1,660	1,030	1,870	0	1,440	907	1,450	139	114	1,710
19	1,770	1,640	1,690	1,060	1,880	1,170	1,710	1,360	1,330	90	13	1,730
20	1,780	1,690	1,760	1,260	1,880	1,880	1,500	1,230	1,270	64	49	1,710
21	1,780	1,800	1,870	1,450	1,880	1,870	1,300	1,220	1,190	58	60	1,760
22	1,780	1,800	1,750	1,470	1,880	1,870	1,390	1,310	944	11	86	1,810
23	1,780	1,800	1,890	1,480	1,880	1,870	1,300	1,330	705	0	73	1,790
24	1,770	1,790	1,890	1,460	1,880	1,800	1,320	1,290	633	141	178	1,730
25	1,680	1,800	1,940	1,490	1,880	1,770	1,330	1,270	513	420	465	1,800
26	1,790	1,820	1,840	1,670	1,880	1,750	1,330	1,270	308	937	472	1,800
27	1,750	1,820	1,890	1,760	1,880	1,740	1,390	1,280	210	1,050	560	1,800
28	1,760	1,820	1,890	1,880	1,880	1,750	1,510	1,260	33	1,070	649	831
29	1,760	1,820	1,890	1,880	-----	1,750	1,540	1,240	0	1,010	1,260	759
30	1,770	1,820	1,850	1,880	-----	1,740	1,540	1,330	59	1,160	1,310	1,280
31	1,770	-----	1,870	1,880	-----	1,760	-----	1,350	-----	1,200	1,290	-----
TOTAL	51,010	54,210	56,220	49,312	52,530	50,864	47,390	41,127	32,355	14,899	25,753	47,220
MEAN	1,645	1,807	1,814	1,591	1,876	1,641	1,580	1,327	1,079	481	831	1,574
MAX	1,790	1,870	1,940	1,880	1,880	1,890	1,770	1,540	1,480	1,200	1,540	1,810
MIN	174	1,640	1,410	992	1,860	0	1,300	907	0	0	13	759
AC-FT	101,200	107,500	111,500	97,810	104,200	100,900	94,000	81,580	64,180	29,550	51,080	93,660
CAL YEAR 1997	MAX	1,940	MIN	0	AC-FT	962,700						
WTR YEAR 1998	MAX	1,940	MIN	0	AC-FT	1,037,000						

PLATTE RIVER BASIN

PLATTE RIVER below Tri-County Diversion Dam, 00229000 - 1998

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 - 1990, Continuous record 1991 - present

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 3,290 cubic feet per second April 3, gage height 6.55 feet; maximum gage height 7.72 feet on January 13 due to backwater from ice conditions; minimum daily discharge 43 cubic feet per second September 18.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,830	1,050	893	955	1,020E	500	2,780	1,300	673	980	2,460	646
2	1,820	1,210	916	780	1,000E	492	3,030	1,250	574	1,130	2,050	532
3	1,860	1,350	924	762	980E	520E	3,040	1,010	461	1,240	1,820	342
4	1,900	1,430	852	838	960E	540E	2,760	798	517	1,340	1,550	318
5	1,850	1,370	830	919	980E	500E	2,710	581	592	1,430	1,250	168
6	1,510	1,130	792	962	980E	460E	2,590	513	556	1,420	1,160	101
7	1,280	1,010	1,020	966	1,000E	500E	2,600	512	517	1,480	1,220	62
8	1,130	914	1,170	986	1,040E	554	2,630	557	1,190	1,420	1,260	88
9	681	786	1,070	800E	1,100E	761	2,700	948	2,120	1,570	1,280	76
10	269	814	1,100	540E	1,150	1,200	2,650	1,320	2,290	1,640	1,330	47
11	348	928	1,080	900E	1,130	1,490	2,590	1,090	2,550	1,520	1,500	56
12	670	956	1,280	800E	1,030	1,230	2,500	1,180	1,990	1,520	1,460	62
13	882	892	1,710	1,000E	978	868	2,390	1,340	1,590	1,480	1,400	105
14	594	876	1,840	1,530	922	755	2,340	1,370	1,430	1,540	1,220	95
15	360	1,280	1,380	1,650	889	714	2,080	1,220	1,310	1,510	1,090	153
16	310	1,590	1,080	1,950	821	711	1,680	813	1,100	1,410	1,050	101
17	237	1,690	901	2,450	698	709	1,480	320	876	1,430	1,010	56
18	246	1,660	856	2,450	696	892	1,320	362	666	1,550	1,020	43
19	163	1,340	794	1,970	585	928	1,260	284	534	1,670	1,180	45
20	123	1,180	751	1,640	609	918	1,230	482	458	1,660	1,460	49
21	234	1,060	741	1,140	720	966	1,350	502	453	1,690	1,690	51
22	726	1,060	760	1,140	681	935	1,480	515	701	2,280	1,730	73
23	840	1,030	749	1,070	624	895	1,610	507	836	2,290	1,580	96
24	860	1,010	805	1,050	582	912	1,670	484	772	2,330	1,360	83
25	1,100	1,010	828	1,010	628	1,220	1,690	514	791	2,310	1,280	60
26	985	1,020	1,020	1,000E	550	1,670	1,730	480	896	2,470	1,230	72
27	998	1,020	1,200	980E	518	2,210	1,600	441	901	2,600	1,220	68
28	1,180	962	1,220	1,000E	451	2,620	1,540	436	1,310	2,520	1,220	115
29	1,130	949	1,370	1,040E	-----	2,520	1,500	802	1,380	2,630	1,220	143
30	981	916	1,290	1,020E	-----	2,530	1,340	1,020	1,090	2,500	957	78
31	932	-----	1,170	1,040E	-----	2,700	-----	818	-----	2,590	719	-----
TOTAL	28,029	33,493	32,392	36,338	23,322	34,420	61,870	23,769	31,124	55,150	41,976	3,984
MEAN	904	1,116	1,045	1,172	833	1,110	2,062	767	1,037	1,779	1,354	133
MAX	1,900	1,690	1,840	2,450	1,150	2,700	3,040	1,370	2,550	2,630	2,460	646
MIN	123	786	741	540	451	460	1,230	284	453	980	719	43
AC-FT	55,600	66,430	64,250	72,080	46,260	68,270	122,700	47,150	61,730	109,400	83,260	7,900
CAL YEAR 1997 TOTAL		532,493	MEAN	1,459	MAX	14,500	MIN	50	AC-FT	1,056,000		
WTR YEAR 1998 TOTAL		405,867	MEAN	1,112	MAX	3,040	MIN	43	AC-FT	805,000		

E indicates estimated discharge.

PLATTE RIVER BASIN

PLATTE RIVER at Brady, 06766000 - 1998

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. Records are 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 4,570 cubic feet per second April 3, combined channel flow; minimum daily discharge 116 cubic feet per second on September 20, combined channel flow.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,850	1,110	801	1,100	1,130	514E	4,160	1,320	744	1,140	2,570	710
2	2,910	1,400	827	853	1,100	553E	4,330	1,340	657	1,230	2,260	629
3	2,940	1,630	840	733	1,010	524E	4,330	1,170	582	1,340	1,920	511
4	3,020	1,850	791	750	990	513E	4,090	980	584	1,440	1,580	427
5	3,050	1,790	729	903	1,080	503E	4,160	792	688	1,670	1,280	363
6	2,550	1,450	715	1,060	1,090	523E	4,130	714	676	1,610	1,090	264
7	2,200	1,210	778	985	1,060	514E	4,090	675	623	1,750	1,140	208
8	1,860	1,080	1,100	982	1,090	463E	4,040	704	933	1,790	1,170	164
9	1,330	906	1,010	942E	1,130	582E	4,030	864	2,080	1,860	1,160	170
10	597	777	1,020	822E	1,150	962	3,930	1,300	2,510	2,000	1,190	156
11	511	880	1,030	562E	1,180	1,150	3,800	1,130	3,030	1,860	1,360	133
12	748	1,020	956	1,060E	1,150	1,310	3,310	1,070	2,460	1,760	1,400	129
13	1,370	1,100	1,380	1,360E	1,170	1,000	3,140	1,180	1,720	1,590	1,400	127
14	1,040	931	2,180	1,430E	1,140	959	3,250	1,190	1,440	1,590	1,160	159
15	695	1,040	1,960	1,280E	1,100	862	3,230	1,190	1,400	1,560	1,090	150
16	542	1,950	1,420	1,990	1,050	845	2,510	945	1,250	1,490	1,070	159
17	463	2,060	1,070	2,920	979	859	1,970	628	1,080	1,440	1,000	145
18	398	2,060	927	3,200	909	967	1,620	419	906	1,450	1,010	123
19	335	1,680	854	2,710	845	1,070	1,470	441	793	1,450	1,060	117
20	268	1,390	764	1,960	800	1,100	1,440	493	732	1,460	1,220	116
21	254	1,200	703	1,520	797	1,110	1,450	578	672	1,470	1,420	118
22	469	1,090	741	1,350	777	1,080	1,580	653	802	2,220	1,490	121
23	800	1,060	735	1,260	760	1,090	1,690	660	966	2,430	1,440	133
24	833	1,040	778	1,120	731	1,120	1,800	654	925	2,590	1,320	138
25	1,110	953	789	1,110	696	1,330	1,880	640	866	2,650	1,300	127
26	1,080	963	820	1,090	675	1,970	1,800	587	929	2,770	1,260	121
27	999	958	1,160	1,090	646	3,120	1,640	539	937	2,860	1,250	118
28	1,260	887	1,260	1,060	564E	3,640	1,490	482	1,090	2,710	1,230	127
29	1,420	873	1,360	1,110	-----	3,650	1,450	641	1,330	2,700	1,180	153
30	1,170	823	1,400	1,130	-----	3,550	1,340	941	1,210	2,580	1,020	160
31	1,070	-----	1,300	1,120	-----	3,890	-----	844	-----	2,690	793	-----
TOTAL	40,142	37,161	32,198	40,562	26,799	41,323	83,150	25,764	34,615	59,150	40,833	6,276
MEAN	1,295	1,239	1,039	1,308	957	1,333	2,772	831	1,154	1,908	1,317	209
MAX	3,050	2,060	2,180	3,200	1,180	3,890	4,330	1,340	3,030	2,860	2,570	710
MIN	254	777	703	562	564	463	1,340	419	582	1,140	793	116
AC-FT	79,620	73,710	63,860	80,450	53,160	81,960	164,900	51,100	68,660	117,300	80,990	12,450
CAL YEAR 1997 TOTAL		581,476	MEAN	1,593	MAX	14,800	MIN	115	AC-FT	1,153,000		
WTR YEAR 1998 TOTAL		467,973	MEAN	1,282	MAX	4,330	MIN	116	AC-FT	928,200		

E indicates estimated discharge.

PLATTE RIVER BASIN

THIRTY MILE CANAL from Platte River, 00141000 - 1998

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

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

PERIOD OF RECORD.--1928 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	91	263	278	5.8
2							0	0	98	282	279	5.8
3							0	0	98	298	282	5.8
4							0	0	97	300	282	1.2
5							0	0	100	300	281	0
6							0	0	99	307	283	0
7							0	0	97	315	284	0
8							0	0	103	316	283	0
9							0	0	101	317	283	0
10							0	0	102	304	280	0
11							0	0	103	296	283	0
12							0	0	103	293	279	0
13							0	0	103	292	276	0
14							0	0	104	294	276	0
15							0	0	104	299	272	0
16							0	7.8	107	299	271	0
17							0	16	103	288	271	0
18							0	75	117	298	274	0
19							0	75	125	299	284	0
20							0	73	127	300	284	0
21							0	75	127	301	285	0
22							0	76	128	299	285	0
23							0	76	126	297	284	0
24							0	75	141	298	284	0
25							0	75	162	298	283	0
26							0	75	174	298	283	0
27							0	75	168	290	282	0
28							0	75	188	282	259	0
29					-----		0	75	206	281	244	0
30					-----		0	75	241	281	209	0
31		-----			-----		-----	74	-----	281	58	-----
TOTAL							0	1,072.8	3,743	9,166	8,341	18.6
MEAN							0	34.6	125	296	269	.62
MAX							0	76	241	317	285	5.8
MIN							0	0	91	263	58	0
AC-FT							0	2,130	7,420	18,180	16,540	37
CAL YEAR 1997	MAX	315	MIN	0	AC-FT	40,370						
WTR YEAR 1998	MAX	317	MIN	0	AC-FT	44,310						

PLATTE RIVER BASIN

GOTHENBURG CANAL from Platte River, 00057000 - 1998

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

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

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

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	86	109	281	343	245
2							0	86	109	326	344	213
3							0	86	110	350	349	160
4							0	86	107	350	347	143
5							0	86	109	349	343	143
6							0	86	109	347	337	143
7							1.8	86	108	347	334	141
8							3.3	86	116	349	332	116
9							3.3	88	110	347	329	111
10							3.3	88	110	347	327	110
11							3.7	100	109	350	327	109
12							3.7	106	111	350	326	109
13							3.7	105	112	350	315	108
14							3.7	105	110	350	307	97
15							3.9	106	110	347	309	88
16							3.6	105	115	345	311	90
17							3.7	105	110	348	313	87
18							4.9	105	109	352	313	82
19							4.9	107	109	352	312	83
20							8.6	109	109	350	313	82
21							101	110	109	357	311	83
22							82	112	110	368	312	84
23							82	112	118	364	314	83
24							82	113	119	362	314	28
25							85	113	115	359	314	75
26							85	113	134	357	314	80
27							85	113	147	349	314	80
28							85	113	167	350	302	80
29					-----		85	112	203	350	285	79
30					-----		85	112	249	348	272	77
31		-----			-----		-----	109	-----	357	258	-----
TOTAL							913.1	3,149	3,672	10,808	9,841	3,209
MEAN							30.4	102	122	349	317	107
MAX							101	113	249	368	349	245
MIN							0	86	107	281	258	28
AC-FT							1,810	6,250	7,280	21,440	19,520	6,370
CAL YEAR 1997	MAX	351	MIN	0	AC-FT	40,370						
WTR YEAR 1998	MAX	368	MIN	0	AC-FT	62,660						

PLATTE RIVER BASIN

BUFFALO CREEK (B-1) RESERVOIR SUPPLY CANAL from Platte River, 00019500 - 1998

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1983, 1985 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	26	11	5.1	14
2								0	27	2.9	5.1	14
3								0	14	0	5.4	17
4								7.0	0	0	3.9	22
5								16	0	0	2.1	24
6								23	0	0	2.4	26
7								22	0	0	3.3	27
8								21	13	0	3.4	27 E
9								22	23	0	3.9	27 E
10								20	22	0	5.4	27 E
11								15	24	0	4.6	27 E
12								15	25	0	3.7	27 E
13								15	25	0	3.8	27 E
14								11	26	0	3.8	27 E
15							0	15	26	2.5	3.7	27 E
16							0	17	23	3.3	2.8	26 E
17							0	16	24	3.4	1.6	26 E
18							0	16	24	1.6	0	26 E
19							0	16	24	1.2	0	26 E
20							0	17	23	1.9	1.4	26 E
21							0	16	23	2.0	1.4	26 E
22							0	22	24	0	1.7	26 E
23							0	23	22	0	2.5	26 E
24							0	23	22	1.4	3.4	26
25							0	26	23	1.5	3.7	16
26							0	25	23	1.5	4.3	7.8
27							0	23	24	3.0	4.7	24
28							0	25	20	2.4	4.7	26
29					-----		0	23	24	3.8	5.1	27
30					-----		0	24	23	4.8	8.3	25
31		-----			-----		-----	25	-----	4.9	13	-----
TOTAL							0	539.0	597	53.1	118.2	719.8
MEAN							0	17.4	19.9	1.71	3.81	24.0
MAX							0	26	27	11	13	27
MIN							0	0	0	0	0	7.8
AC-FT							0	1,070	1,180	105	234	1,430
WTR YEAR 1998	MAX	27	MIN	0	AC-FT	4,020						

E indicates estimated discharge.

PLATTE RIVER BASIN

SIX MILE CANAL from Platte River, 00134000 - 1998

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

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

PERIOD OF RECORD.--1919, 1922 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	0	9.0	14	4.2
2								0	0	21	14	4.3
3								0	0	29	17	2.3
4								0	0	26	14	.62
5								0	0	25	13	.13
6								0	0	23	12	0
7								.25	0	23	9.9	0
8								6.2	0	24	10	0
9								9.6	.63	23	9.4	0
10								11	.90	21	9.2	0
11								8.2	.99	20	9.8	0
12								6.2	.93	19	9.9	0
13								6.4	.66	20	9.2	0
14								6.5	.46	20	9.7	0
15								6.6	.30	19	10	0
16								5.7	.20	20	9.5	0
17								1.9	.13	19	13	0
18								0	0	18	14	0
19								0	.01	17	14	0
20								0	2.7	17	14	0
21								0	2.6	18	12	0
22								0	3.2	20	12	0
23								0	7.5	19	13	0
24								0	7.6	20	11	0
25								0	8.3	20	14	0
26								0	8.4	20	15	0
27								0	8.8	21	13	0
28								0	8.9	20	9.9	0
29					-----			0	9.1	20	12	0
30					-----			.15	9.2	16	11	0
31		-----			-----		-----	.47	-----	15	7.0	-----
TOTAL								69.17	81.51	622.0	365.5	11.55
MEAN								2.23	2.72	20.1	11.8	.39
MAX								11	9.2	29	17	4.3
MIN								0	0	9.0	7.0	0
AC-FT								137	162	1,230	725	23
CAL YEAR 1997	MAX	25	MIN	0	AC-FT	1,990						
WTR YEAR 1998	MAX	29	MIN	0	AC-FT	2,280						

PLATTE RIVER BASIN

COZAD CANAL from Platte River, 00033000 - 1998

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

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

PERIOD OF RECORD.--1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	47	250	262	34
2								0	47	268	261	0
3								0	49	278	262	0
4								0	52	279	254	0
5								0	52	279	249	0
6								0	52	283	243	0
7								0	52	291	241	0
8								0	52	290	235	0
9								0	53	288	230	0
10								0	51	283	231	0
11								0	51	267	232	0
12								0	50	268	235	0
13								0	49	267	240	0
14								0	50	272	235	0
15								0	50	268	237	0
16								0	51	272	238	0
17								0	51	278	238	0
18								0	50	277	239	0
19								0	73	277	239	0
20								0	81	279	239	0
21								0	79	279	240	0
22								0	78	288	240	0
23								0	78	285	232	0
24								0	78	278	228	0
25								0	86	268	231	0
26								39	144	262	236	0
27								54	166	263	220	0
28								54	172	261	182	0
29					-----			56	177	263	166	0
30					-----			53	187	262	164	0
31		-----			-----		-----	47	-----	264	163	-----
TOTAL								303	2,308	8,487	7,142	34
MEAN								9.77	76.9	274	230	1.13
MAX								56	187	291	262	34
MIN								0	47	250	163	0
AC-FT								601	4,580	16,830	14,170	67
CAL YEAR 1997	MAX	275	MIN	0	AC-FT	32,230						
WTR YEAR 1998	MAX	291	MIN	0	AC-FT	36,250						

PLATTE RIVER BASIN

ORCHARD ALFALFA CANAL from Platte River, 00117000 - 1998

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

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

PERIOD OF RECORD.--1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	7.3	44	62	43
2								0	13	49	60	36
3								0	19	54	58	16
4								0	19	58	54	5.4
5								0	16	61	50	5.2
6								0	12	63	53	5.1
7								0	11	66	49	4.8
8								0	12	69	51	4.6
9								0	11	72	56	4.3
10								0	6.1	75	57	4.1
11								0	12	74	57	1.5
12								0	16	73	62	0
13								0	14	73	60	0
14								0	13	73	58	0
15								0	15	73	56	0
16								0	17	74	50	0
17								0	17	69	45	0
18								0	17	66	46	0
19								0	16	66	47	0
20								0	14	69	49	0
21								0	13	68	53	0
22								0	20	67	54	0
23								0	25	71	53	0
24								0	22	69	55	0
25								0	26	67	54	0
26								0	30	63	53	0
27								0	36	63	54	0
28								5.8	38	64	52	0
29					-----			15	44	61	49	0
30					-----			20	47	60	49	0
31		-----			-----		-----	15	-----	59	45	-----
TOTAL								55.8	578.4	2,033	1,651	130.0
MEAN								1.80	19.3	65.6	53.3	4.33
MAX								20	47	75	62	43
MIN								0	6.1	44	45	0
AC-FT								111	1,150	4,030	3,270	258
CAL YEAR 1997	MAX	81	MIN	0	AC-FT	9,560						
WTR YEAR 1998	MAX	75	MIN	0	AC-FT	8,820						

PLATTE RIVER BASIN

DAWSON COUNTY CANAL from Platte River, 00037000 - 1998

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

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

PERIOD OF RECORD.--1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	167	422	338	276
2								0	167	473	335	282
3								0	166	502	316	236
4								51	173	507	293	109
5								78	168	500	296	12
6								76	166	494	296	0
7								76	166	492	291	0
8								73	158	488	289	0
9								73	199	486	287	0
10								74	225	490	334	0
11								95	160	491	384	0
12								95	163	486	393	0
13								106	158	457	401	0
14								106	166	422	410	0
15								104	164	425	411	0
16								104	164	436	408	0
17								98	163	451	387	0
18								118	168	452	379	0
19								147	191	452	401	0
20								140	217	470	431	0
21								134	215	480	467	0
22								134	215	466	460	0
23								135	212	450	447	0
24								135	202	450	452	0
25								135	236	441	431	0
26								150	301	440	412	0
27								162	308	413	370	0
28								167	313	389	302	0
29					-----			168	341	387	270	0
30					-----			178	392	359	267	0
31		-----			-----		-----	168	-----	336	269	-----
TOTAL								3,280	6,204	14,007	11,227	915
MEAN								106	207	452	362	30.5
MAX								178	392	507	467	282
MIN								0	158	336	267	0
AC-FT								6,510	12,310	27,780	22,270	1,810
CAL YEAR 1997	MAX	514	MIN	0	AC-FT	71,280						
WTR YEAR 1998	MAX	507	MIN	0	AC-FT	70,680						

PLATTE RIVER BASIN

PLATTE RIVER near Cozad, 06766500 - 1998

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

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 3,490 cubic feet per second April 4, combined channel flow; minimum daily discharge 21 cubic feet per second August 19, combined channel flow.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,080	1,380	1,150E	1,530	1,620	742	3,170	1,320	531	210	897	266
2	2,230	1,510	1,140E	1,320	1,620	738	3,230	1,320	466	160	882	286
3	2,260	1,750	1,150E	1,150	1,570	737	3,310	1,240	423	150	698	296
4	2,310	1,960	1,160E	1,090	1,500	807	3,330	1,000	370	140	582	340
5	2,310	2,090	1,120E	1,120	1,520	862	3,160	815	387	132	467	352
6	2,260	1,950	1,080E	1,220	1,580	848	3,090	719	436	145	328	298
7	1,980	1,670	1,060E	1,280	1,550	878	3,010	651	432	131	273	238
8	1,770	1,510	1,210E	1,280	1,540	824	2,950	626	490	133	265	202
9	1,580	1,330	1,380E	1,290	1,520	752	2,940	673	810	177	265	173
10	1,160	1,160E	1,280E	1,160	1,580	947	3,000	854	1,650	250	205	159
11	706	1,110	1,310E	801	1,580	958	2,980	1,100	2,040	281	188	148
12	856	1,190E	1,260E	960	1,540	990	2,910	901	2,120	235	351	134
13	1,220	1,280E	1,280E	1,680	1,470	1,000	2,770	901	1,570	258	300	126
14	1,430	1,290E	1,900E	1,860	1,410	1,020	2,690	963	1,250	243	250	131
15	1,100	1,140E	2,140E	1,750	1,350	1,060	2,750	1,020	1,090	272	142	148
16	836	1,590E	1,750E	1,820	1,250	948	2,540	926	941	214	52	148
17	730	1,930E	1,400E	2,080	1,150	942	2,120	726	793	146	41	155
18	646	2,060E	1,230E	2,510	1,060	946	1,830	485	670	119	30	144
19	575	1,880E	1,160E	2,380	980	1,080	1,690	359	507	108	21	129
20	501	1,630E	1,100E	2,120	921	1,120	1,580	330	400	116	36	120
21	428	1,480E	1,020E	2,000	888	1,140	1,440	415	328	117	105	113
22	414	1,380E	990E	1,700	871	1,100	1,520	509	320	216	208	112
23	819	1,360E	1,030E	1,620	851	1,060	1,640	534	458	479	226	112
24	1,120	1,330E	1,040E	1,610	841	1,060	1,720	503	545	543	150	142
25	1,350	1,290E	1,080E	1,680	824	1,120	1,840	478	445	600	99	150
26	1,520E	1,240E	1,080E	1,700	816	1,460	1,850	437	336	646	83	116
27	1,440E	1,260E	1,210E	1,750	799	2,070	1,760	377	343	738	130	112
28	1,450	1,240E	1,430E	1,650	779	2,630	1,590	338	312	817	216	112
29	1,720	1,200E	1,520E	1,580	-----	2,820	1,510	299	420	799	292	113
30	1,690	1,190E	1,650E	1,610	-----	2,910	1,450	421	401	864	290	137
31	1,460	-----	1,620E	1,600	-----	3,020	-----	577	-----	833	249	-----
TOTAL	41,951	44,380	39,930	48,901	34,980	38,589	71,370	21,817	21,286	10,272	8,321	5,212
MEAN	1,353	1,479	1,288	1,577	1,249	1,245	2,379	704	710	331	268	174
MAX	2,310	2,090	2,140	2,510	1,620	3,020	3,330	1,320	2,120	864	897	352
MIN	414	1,110	990	801	779	737	1,440	299	312	108	21	112
AC-FT	83,210	88,030	79,200	97,000	69,380	76,540	141,600	43,270	42,220	20,370	16,500	10,340
CAL YEAR 1997 TOTAL		416,336	MEAN	1,141	MAX	8,380	MIN	30	AC-FT	825,800		
WTR YEAR 1998 TOTAL		387,009	MEAN	1,060	MAX	3,330	MIN	21	AC-FT	767,600		

E indicates estimated discharge.

PLATTE RIVER BASIN

KEARNEY CANAL from Platte River, 00073000 - 1998

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

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

PERIOD.--1919, 1921 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285	13					0	282	287	275	258	356
2	311	12					0	278	261	272	257	325
3	314	4.6					0	276	154	283	260	264
4	303	0					0	276	102	279	258	233
5	279	0					0	273	199	287	276	234
6	247	0					0	268	257	289	322	230
7	211	0					0	255	66	292	309	223
8	136	0					22	242	34	305	295	216
9	123	0					80	242	29	302	284	201
10	107	0					75	243	52	308	305	201
11	100	0					68	254	250	318	320	205
12	87	0					79	266	287	318	345	201
13	137	0					159	273	283	322	376	191
14	173	0					250	270	271	307	370	182
15	150	0					293	276	270	301	365	176
16	139	0					281	278	270	326	355	181
17	148	0					272	271	268	336	357	181
18	173	0					264	246	270	326	343	176
19	167	0					261	271	276	315	329	177
20	161	0					255	265	281	308	312	176
21	154	0					277	283	277	302	315	179
22	148	0					263	215	276	302	320	183
23	131	0					268	120	272	308	337	180
24	70	0					267	105	278	340	341	174
25	27	0					272	99	286	327	345	173
26	25	0					273	95	288	348	332	168
27	22	0					272	169	275	357	332	165
28	18	0					275	251	264	355	331	147
29	16	0			-----		280	276	255	343	359	100
30	14	0			-----		282	275	269	314	376	127
31	14	-----			-----		-----	279	-----	294	372	-----
TOTAL	4,390	29.6					5,088	7,472	6,907	9,659	10,056	5,925
MEAN	142	.99					170	241	230	312	324	198
MAX	314	13					293	283	288	357	376	356
MIN	14	0					0	95	29	272	257	100
AC-FT	8,710	59					10,090	14,820	13,700	19,160	19,950	11,750
CAL YEAR 1997	MAX	353	MIN	0	AC-FT	103,800						
WTR YEAR 1998	MAX	376	MIN	0	AC-FT	98,240						

PLATTE RIVER BASIN

KEARNEY POWER RETURN to Platte River, 00075000 - 1998

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1939 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	242	25	0	0	0	0	0	261	267	202	186	272
2	258	25	0	0	0	0	0	231	260	200	194	264
3	264	5.0	0	0	0	0	0	251	168	187	186	241
4	233	C	0	0	0	0	0	275	68	200	184	218
5	229	0	0	0	0	0	0	249	127	217	203	214
6	215	0	0	0	0	0	2.1	245	238	243	249	212
7	178	0	0	0	0	0	1.8	229	131	222	246	205
8	124	0	0	0	0	0	9.2	195	49	242	241	201
9	91	0	0	0	0	11	2.0	214	25	247	220	194
10	82	0	0	0	0	1.8	0	210	23	261	233	172
11	75	0	0	0	0	3.9	0	243	137	276	253	187
12	101	0	0	0	0	3.4	0	235	248	270E	262	193
13	72	0	0	0	0	0	69	247	256	260E	272	177
14	109	0	0	0	0	0	172	244	247	234	278	166
15	105	0	0	.20	0	0	235	258	243	209	268	156
16	89	0	0	0	0	0	270	232	246	206	269	160
17	85	0	0	0	0	0	262	248	231	219	257	161
18	99	0	0	0	0	0	253	259	255	219	214	162
19	101	0	0	0	0	0	248	223	238	212	214	164
20	97	0	0	0	0	0	240	229	252	202	212	162
21	92	0	0	0	0	0	255	243	222	204	206	153
22	90	0	0	0	0	0	274	75	270	225	214	159
23	85	0	0	0	0	0	254	15	224	226	233	157
24	81	0	0	0	0	0	245	.25	265	259	250	154
25	38	0	0	0	0	0	229	0	248	264	265	152
26	29	0	0	0	0	0	251	0	231	280	270	148
27	28	0	0	0	0	20	274	98	232	276	321	142
28	28	0	0	0	0	74	253	208	217	271	283	139
29	27	0	0	0	-----	13	262	260	227	247	277	101
30	26	0	0	0	-----	0	262	254	205	233	310	90
31	26	-----	0	0	-----	0	-----	255	-----	253	278	-----
TOTAL	3,399	58.0	0	0.20	0	127.1	4,323.1	6,186.25	6,050	7,266	7,548	5,276
MEAN	110	1.93	0	.006	0	4.10	144	200	202	234	243	176
MAX	264	25	0	.20	0	74	274	275	270	280	321	272
MIN	26	0	0	0	0	0	0	0	23	187	184	90
AC-FT	6,740	115	0	.4	0	252	8,570	12,270	12,000	14,410	14,970	10,460
CAL YEAR 1997	MAX	281	MIN	0	AC-FT	74,590						
WTR YEAR 1998	MAX	321	MIN	0	AC-FT	79,800						

E indicates estimated discharge.

PLATTE RIVER BASIN

PLATTE RIVER near Odessa, 06770000 - 1998

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

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 5,660 cubic feet per second April 11, gage height 5.46 feet; minimum daily discharge 128 cubic feet per second August 20.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,870	3,730	3,360	4,180	3,250	2,510	4,410	3,210	1,890	559	2,520	1,210
2	1,920	3,590	3,280	4,180	3,360	2,490	4,660	3,050	1,860	349	2,750	1,290
3	3,220	3,520	3,220	3,900	3,450	2,530	4,770	3,040	1,760	323	2,850	1,350
4	3,520	3,610	3,170	3,530	3,420	2,540	5,000	3,070	1,720	286	2,720	1,340
5	3,710	3,850	3,060	3,470	3,380	2,690	5,060	2,910	1,560	336	2,400	1,440
6	3,580	4,010	3,140	3,450	3,400	2,760	5,060	2,740	1,490	410	2,070	1,480
7	3,330	3,930	3,240	3,440	3,490	2,810	5,380	2,530	1,720	450	1,810	1,370
8	3,850	3,720	3,330	3,300	3,570	2,780	5,220	2,280	1,980	597	1,700E	1,320
9	3,630	3,600	3,580	3,250	3,570	2,240	5,280	2,250	2,000	457	1,600E	1,270
10	3,510	3,400	3,750	3,140	3,600	2,200E	5,330	2,180	2,390	709	1,500E	1,320
11	3,370	3,310	3,640	3,090	3,460	2,140E	5,440	2,320	2,790	1,120	1,400E	1,380E
12	3,530	3,340	3,320	2,800	3,380	2,080E	5,410	2,390	2,980	1,170	1,040	1,400E
13	3,330	3,570	3,450	2,390	3,290	2,010	5,090	2,260	3,060	1,270	1,060	1,420E
14	3,320	3,630	3,570	3,010	3,170	2,270	4,780	2,090	2,620	1,130	995	1,480E
15	3,420	3,560	4,180	3,450	3,230	2,700	4,510	2,040	2,440	816	910	1,500E
16	3,140	3,360	4,510	3,180	3,240	2,760	4,010	2,160	2,390	679	815	1,560E
17	2,930	3,890	3,940	3,110	3,120	1,510	3,720	2,130	2,470	548	639	1,600E
18	2,780	4,100	3,620	3,340	3,090	1,410	3,320	1,930	2,150	373	368	1,620
19	2,540	4,340	3,330	3,720	3,080	1,450	3,170	1,770	1,920	298	237	1,620
20	2,320	4,330	3,170	3,780	3,090	2,980	2,970	1,690	1,670	240	128	1,550
21	2,240	4,180	3,100	3,860	3,090	3,230	2,750	2,150	1,520	204	137	1,520
22	2,230	4,030	2,940	3,640	3,080	3,250	2,530	3,420	1,480	193	148	1,580
23	2,290	3,870	2,860	3,390	3,090	3,230	2,780	2,990	1,350	230	253	1,610
24	2,810	3,790	3,080	3,220	3,020	3,270	2,790	2,650	1,320	575	308	1,520
25	3,340	3,810	3,230	3,300	2,990	3,340	3,010	2,440	1,320	995	438	1,540
26	3,330	3,800	3,300	3,640	2,810	3,410	3,110	2,320	1,110	1,480	580	1,630
27	3,500	3,900	3,370	3,730	2,720	4,040	3,120	2,180	866	1,920	608	1,570
28	3,610	3,910	3,600	3,850	2,620	4,870	3,190	2,080	673	2,050	647	1,430
29	3,680	4,240	3,750	3,590	-----	4,920	3,260	1,820	530	2,120	893	703
30	3,900	3,760	3,940	3,290	-----	4,670	3,260	1,740	544	2,440	1,240	967
31	3,910	-----	3,980	3,200	-----	4,480	-----	1,770	-----	2,600	1,280	-----
TOTAL	97,660	113,680	107,010	106,420	90,060	89,570	122,390	73,600	53,593	26,927	36,044	42,590
MEAN	3,150	3,789	3,452	3,433	3,216	2,889	4,080	2,374	1,786	869	1,163	1,420
MAX	3,910	4,340	4,510	4,180	3,600	4,920	5,440	3,420	3,060	2,600	2,850	1,630
MIN	1,870	3,310	2,860	2,390	2,620	1,410	2,530	1,690	530	193	128	703
AC-FT	193,700	225,500	212,300	211,100	178,600	177,700	242,800	146,000	106,300	53,410	71,490	84,480
CAL YEAR 1997 TOTAL		942,593	MEAN	2,582	MAX	9,780	MIN	290	AC-FT	1,870,000		
WTR YEAR 1998 TOTAL		959,544	MEAN	2,629	MAX	5,440	MIN	128	AC-FT	1,903,000		

E indicates estimated discharge.

PLATTE RIVER BASIN

WOOD RIVER near Alda, 06772000 - 1998

LOCATION.--N1/4SE1/4 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. Records are good, except estimated records are 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 575 cubic feet per second May 24, gage height 10.25 feet; minimum daily discharge zero October 1-14, 18-25, November 22-December 1, January 11-19, and September 18.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	4.1	0	2.0 E	3.0 E	.70E	55	8.9	11	20	64	3.9
2	0	5.5	.15E	1.9 E	3.6 E	.80E	39	9.5	10	19	24	4.5
3	0	4.8	.20E	1.8 E	3.4 E	.90E	26	11	10	24	16	4.3
4	0	3.8	.30E	1.9 E	4.0 E	1.2 E	19	12	9.6	26	12	4.3
5	0	2.9	.80E	2.0 E	3.8 E	1.4 E	16	11	11	32	9.3	3.8
6	0	2.1	.76E	1.9 E	5.0 E	1.2 E	14	13	10	51	7.1	3.8
7	0	2.3	.80E	1.0 E	5.4 E	1.4 E	35	12	8.4	40	7.1	2.3
8	0	2.1	1.0 E	.60E	6.0 E	1.4 E	45	10	12	24	14	1.6
9	0	1.9	.90E	.40E	6.6 E	1.2 E	48	9.2	18	20	9.7	1.1
10	0	2.0	.70E	.20E	7.0 E	1.4 E	33	8.5	22	19	9.9	.70
11	0	1.9	.70E	0 E	7.4 E	1.6 E	30	7.3	25	16	11	.29
12	0	1.7 E	.80E	0 E	7.2 E	1.4 E	27	5.4	23	23	14	.09
13	0	1.8 E	.74E	0	7.6 E	2.0 E	18	8.0	18	25	8.4	.10
14	0	1.7 E	.70E	0	8.1	2.6 E	14	9.4	53	25	20	.07
15	.97	1.6 E	.80E	0	8.4	3.0 E	14	10	55	22	18	.07
16	.85	1.7 E	.76E	0	8.4	3.4 E	14	11	44	30	13	.09
17	.06	1.3 E	.90E	0	7.7	3.2 E	26	9.5	31	31	9.6	.05
18	0	1.2 E	.80E	0	5.9	3.6 E	15	8.7	26	29	10	0
19	0	1.1 E	.80E	0 E	4.9	4.0 E	11	8.5	22	27	14	.02
20	0	.03E	.90E	.20E	3.6	4.4 E	10	15	18	27	17	.01
21	0	.26	1.0 E	.60E	2.7	5.0 E	9.6	21	17	31	23	.01
22	0	0	1.5 E	1.0 E	2.5	6.0	9.8	308	16	41	25	.01
23	0	0	1.8 E	1.2 E	2.0	5.9	14	483	14 E	49	19	.03
24	0	0	1.7 E	1.0 E	2.1	5.0	13	525	13 E	39	14	.01
25	0	0	1.6 E	1.6 E	2.2	5.5	10	262	11 E	29	12	.24
26	2.0 E	0	1.8 E	2.0 E	1.6	6.0	9.1	56	12	23	12	.76
27	11 E	0	1.9 E	2.2 E	1.3	8.5	8.3	33	13	21	16	.46
28	7.0 E	0	1.8 E	2.8 E	.70E	29	7.8	24	15	12	12	.46
29	5.0 E	0	1.9 E	3.0 E	-----	74	6.5	19	19	12	8.9	.56
30	5.4 E	0	2.1 E	2.8 E	-----	202	7.9	16	19	11	8.4	.56
31	5.0 E	-----	2.0 E	2.6 E	-----	80	-----	14	-----	54	6.4	-----
TOTAL	37.28	45.79	32.61	34.70	132.10	467.70	605.0	1,958.9	586.0	852	464.8	34.19
MEAN	1.20	1.53	1.05	1.12	4.72	15.1	20.2	63.2	19.5	27.5	15.0	1.14
MAX	11	5.5	2.1	3.0	8.4	202	55	525	55	54	64	4.5
MIN	0	0	0	0	.70	.70	6.5	5.4	8.4	11	6.4	0
AC-FT	74	91	65	69	262	928	1,200	3,890	1,160	1,690	922	68
CAL YEAR 1997 TOTAL		1,947.74	MEAN	5.34	MAX	28	MIN	0	AC-FT	3,860		
WTR YEAR 1998 TOTAL		5,251.07	MEAN	14.4	MAX	525	MIN	0	AC-FT	10,420		

E indicates estimated discharge.

**PLATTE RIVER BASIN
(LOUP RIVER)**

SARGENT CANAL from Middle Loup River, 00130000 - 1998

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

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

PERIOD OF RECORD.--1957 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	134	157	117
2									0	172	153	111
3									0	191	103	114
4									0	200	78	103
5									0	201	58	86
6									0	201	77	82
7									0	210	108	72
8									0	225	119	69
9									0	225	121	73
10									0	233	143	73
11									0	217	137	73
12									0	214	124	73
13									0	216	126	73
14									0	216	128	20
15									0	219	128	0
16									0	222	128	0
17									0	224	161	0
18									0	210	193	0
19									0	205	221	0
20									0	211	202	0
21									11	233	183	0
22									61	241	154	0
23									61	228	144	0
24									77	203	143	0
25									72	185	159	0
26									62	183	167	0
27									65	159	145	0
28									66	137	126	0
29					-----				77	151	125	0
30					-----				102	162	125	0
31		-----			-----		-----		-----	167	126	-----
TOTAL									654	6,195	4,262	1,139
MEAN									21.8	200	137	38.0
MAX									102	241	221	117
MIN									0	134	58	0
AC-FT									1,300	12,290	8,450	2,260
CAL YEAR 1997	MAX	271	MIN	0	AC-FT	22,720						
WTR YEAR 1998	MAX	241	MIN	0	AC-FT	24,300						

PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 1 from Middle Loup River, 00090000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1938 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	18	35	30	35
2								0	18	37	28	36
3								0	18	34	24	35
4								0	19	36	19	34
5								0	18	36	13	34
6								0	18	35	21	34
7								13	18	34	26	32
8								17	19	39	28	35
9								17	18	41	29	38
10								17	16	34	28	35
11								17	15	31	26	31
12								17	15	32	26	30
13								17	14	34	26	29
14								17	14	39	26	28
15								17	13	41	25	24
16								17	13	42	25	19
17								17	14	42	29	8.3
18								17	15	42	40	0
19								16	15	42	43	0
20								16	15	41	42	0
21								16	14	40	42	0
22								15	13	38	38	0
23								14	13	40	38	0
24								15	14	42	38	0
25								16	15	39	38	0
26								17	15	35	38	0
27								18	15	36	39	0
28								18	15	35	39	0
29					-----			18	20	32	40	0
30					-----			18	32	30	39	0
31		-----			-----		-----	18	-----	30	36	-----
TOTAL								415	489	1,144	984	517.3
MEAN								13.4	16.3	36.9	31.7	17.2
MAX								18	32	42	43	38
MIN								0	13	30	18	0
AC-FT								823	970	2,270	1,950	1,030
CAL YEAR 1997	MAX	42	MIN	0	AC-FT	5,780						
WTR YEAR 1998	MAX	43	MIN	0	AC-FT	7,040						

PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 1 PUMP from Middle Loup River, 00090200 - 1998

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

GAGE.--Flow Meter

PERIOD OF RECORD.--1987 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										0	0	9.0
2										0	0	9.0
3										0	0	9.0
4										0	0	9.0
5										0	0	9.0
6										0	0	9.0
7										0	0	9.0
8										0	0	3.8
9										0	0	0
10										6.4	0	0
11										9.0	0	0
12										9.0	0	0
13										9.0	0	0
14										9.0	0	0
15										9.0	0	0
16										9.0	0	0
17										9.0	5.2	0
18										9.0	9.0	0
19										9.0	9.0	0
20										9.0	9.0	0
21										9.0	9.0	0
22										9.0	9.0	0
23										9.0	9.0	0
24										9.0	9.0	0
25										7.1	9.0	0
26										0	9.0	0
27										0	9.0	0
28										0	9.0	0
29					-----					0	9.0	0
30					-----					0	9.0	0
31		-----			-----		-----		-----	0	9.0	-----
TOTAL										139.5	131.2	66.8
MEAN										4.50	4.23	2.23
MAX										9.0	9.0	9.0
MIN										0	0	0
AC-FT										277	260	132
CAL YEAR 1997	MAX	9.0	MIN	0	AC-FT	426						
WTR YEAR 1998	MAX	9.0	MIN	0	AC-FT	669						

PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 2 from Middle Loup River, 00091000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1938 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	21	48	35	34
2								0	20	54	34	35
3								0	18	45	30	35
4								0	17	50	25	35
5								0	17	51	22	36
6								0	17	49	26	33
7								0	16	50	36	30
8								0	17	54	43	32
9								0	18	53	45	32
10								0	16	46	41	30
11								0	15	42	37	28
12								0	14	42	37	29
13								0	14	45	37	29
14								0	14	51	33	30
15								0	14	51	28	29
16								0	14	51	29	23
17								0	14	50	42	6.7
18								23	14	49	52	0
19								23	14	46	53	0
20								22	14	50	54	0
21								22	14	52	50	0
22								22	13	53	39	0
23								23	12	50	39	0
24								23	13	47	42	0
25								23	14	42	47	0
26								20	17	34	48	0
27								13	19	32	48	0
28								13	24	32	44	0
29					-----			17	31	32	41	0
30					-----			22	39	32	36	0
31		-----			-----		-----	21	-----	33	34	-----
TOTAL								287	514	1,416	1,207	506.7
MEAN								9.26	17.1	45.7	38.9	16.9
MAX								23	39	54	54	36
MIN								0	12	32	22	0
AC-FT								569	1,020	2,810	2,390	1,010
CAL YEAR 1997	MAX	62	MIN	0	AC-FT	7,090						
WTR YEAR 1998	MAX	54	MIN	0	AC-FT	7,800						

**PLATTE RIVER BASIN
(LOUP RIVER)**

MIDDLE LOUP CANAL NO. 3 from Middle Loup River, 00092000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1938 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	39	67	44	94
2								0	38	106	54	93
3								0	39	117	52	94
4								0	40	116	51	93
5								0	40	116	54	92
6								0	40	99	54	93
7								0	40	99	54	94
8								0	41	96	57	93
9								0	40	97	71	92
10								0	39	97	82	93
11								0	37	100	77	95
12								0	37	102	73	95
13								0	38	103	70	95
14								0	38	112	67	79
15								0	35	136	64	65
16								0	30	144	63	60
17								0	29	135	89	27
18								55	28	128	114	0
19								62	28	127	111	0
20								38	28	130	112	0
21								39	28	127	85	0
22								40	27	53	69	0
23								39	28	28	72	0
24								39	26	31	74	0
25								39	26	33	75	0
26								38	30	34	76	0
27								38	37	35	76	0
28								38	43	33	76	0
29					-----			38	68	32	76	0
30					-----			39	85	33	78	0
31		-----			-----		-----	39	-----	33	90	-----
TOTAL								581	1,122	2,719	2,260	1,447
MEAN								18.7	37.4	87.7	72.9	48.2
MAX								62	85	144	114	95
MIN								0	26	28	44	0
AC-FT								1,150	2,230	5,390	4,480	2,870
CAL YEAR 1997	MAX	151	MIN	0	AC-FT	18,500						
WTR YEAR 1998	MAX	144	MIN	0	AC-FT	16,120						

PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 4 from Middle Loup River, 00093000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1938 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	38	80	40	73
2								0	41	85	41	72
3								0	39	86	40	71
4								0	40	93	40	70
5								0	39	82	42	69
6								0	36	71	43	67
7								0	40	71	44	66
8								0	41	70	44	57
9								0	37	69	50	47
10								0	34	69	67	48
11								33	33	80	69	49
12								88	34	82	70	50
13								66	34	87	72	52
14								48	34	95	71	44
15								48	33	106	69	37
16								44	30	113	77	37
17								41	29	116	93	23
18								43	27	117	120	0
19								46	27	120	124	0
20								44	27	120	114	0
21								40	27	120	71	0
22								41	28	67	70	0
23								42	28	46	71	0
24								42	27	46	73	0
25								42	26	45	71	0
26								44	31	44	70	0
27								42	46	41	72	0
28								41	49	39	72	0
29					-----			41	55	37	72	0
30					-----			39	71	38	72	0
31	-----				-----		-----	37	-----	39	72	-----
TOTAL								952	1,081	2,374	2,116	932
MEAN								30.7	36.0	76.6	68.3	31.1
MAX								88	71	120	124	73
MIN								0	26	37	40	0
AC-FT								1,890	2,140	4,710	4,200	1,850
CAL YEAR 1997	MAX	129	MIN	0	AC-FT	17,300						
WTR YEAR 1998	MAX	124	MIN	0	AC-FT	14,790						

PLATTE RIVER BASIN (LOUP RIVER)

FARWELL (SHERMAN FEEDER) CANAL from Middle Loup River, 00047000 - 1998

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 237 A.F. delivered to Middle Loup Canal No. 4

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	358	434	374	379	331
2							0	355	365	390	380	331
3							0	353	326	278	382	331
4							0	351	323	264	299	333
5							0	349	321	324	242	333
6							0	345	321	346	240	333
7							0	344	327	362	241	333
8							0	353	330	356	234	332
9							0	353	261	325	210	329
10							0	348	197	230	181	324
11							0	350	181	176	74	324
12							0	345	193	177	42	329
13							0	339	184	232	43	328
14							0	350	173	271	47	335
15							0	352	172	191	46	327
16							0	353	194	178	38	325
17							0	355	248	179	39	318
18							0	350	264	180	46	327
19							0	350	266	186	46	323
20							0	371	259	175	49	322
21							107	392	267	176	42	321
22							211	388	306	288	36	320
23							254	394	333	341	51	320
24							323	397	328	373	112	320
25							176	394	258	386	228	215
26							0	416	227	388	286	63
27							0	431	229	389	333	0
28							27	430	227	385	336	0
29					-----		162	428	221	385	339	0
30					-----		294	430	280	387	339	0
31		-----			-----		-----	434	-----	387	331	-----
TOTAL							1,554	11,558	8,015	9,079	5,691	8,127
MEAN							51.8	373	267	293	184	271
MAX							323	434	434	390	382	335
MIN							0	339	172	175	36	0
AC-FT							3,080	22,930	15,900	18,010	11,290	16,120
CAL YEAR 1997	MAX	443	MIN	0	AC-FT	102,000						
WTR YEAR 1998	MAX	434	MIN	0	AC-FT	87,320						

PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 4 from Sherman Feeder Canal, 00093200 - 1998

LOCATION.--SW1/4SW1/4 Sec. 30-17-15 W. near Arcadia

GAGE.--Flow meter

PERIOD OF RECORD.--1986 - present

REMARKS.--This flow diverted by Farwell (Sherman Feeder) Canal

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										0	0	14
2										0	0	15
3										6.0	0	15
4										9.1	0	12
5										0	0	4.9
6										0	0	0
7										0	0	0
8										0	0	0
9										0	0	0
10										0	0	0
11										0	0	0
12										0	0	0
13										0	0	0
14										0	0	0
15										0	0	0
16										0	0	0
17										4.1	0	0
18										9.8	0	0
19										9.9	3.9	0
20										2.9	4.9	0
21										0	4.5	0
22										0	0	0
23										0	0	0
24										0	0	0
25										0	0	0
26										0	0	0
27										0	0	0
28										0	0	0
29					-----					0	0	0
30					-----					0	0	0
31		-----			-----		-----		-----	0	3.5	-----
TOTAL										41.8	16.8	60.9
MEAN										1.35	.54	2.03
MAX										9.9	4.9	15
MIN										0	0	0
AC-FT										83	33	121
CAL YEAR 1997	MAX	19	MIN	0	AC-FT	317						
WTR YEAR 1998	MAX	15	MIN	0	AC-FT	237						

PLATTE RIVER BASIN (LOUP RIVER)

MUD CREEK near Sweetwater, 06783500 - 1998

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

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

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

PERIOD OF RECORD.--July 1946 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,530 cubic feet per second July 5, gage height 16.65 feet; minimum daily discharge 16 cubic feet per second October 1, 4-6.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	27	27	26	40E	26E	46	33	27	28	34	22
2	17	27	27	26	39E	27E	43	32	26	28	32	22
3	17	29	27	24E	36E	26E	41	31	26	27	34	23
4	16	27	24E	25E	34E	24E	42	31	26	24	37	20
5	16	26	23E	26E	34E	24E	41	31	26	798	35	20
6	16	26	22E	24E	33E	25E	40	31	26	551	38	19
7	17	27	23E	23E	31E	23E	44	30	26	125	32	18
8	18	28	23E	24E	32E	21E	57	30	32	71	30	18
9	20	28	22E	25E	33E	20E	54	30	37	51	28	17
10	19	28	21E	24E	34	18E	48	31	35	44	37	17
11	18	27	21E	23E	29	18E	44	30	38	39	54	18
12	30	27	20E	22E	28	18E	41	42	40	37	34	18
13	41	28	22E	23E	28	20E	38	36	33	35	33	19
14	36	26E	23E	21E	28	22E	37	31	53	33	27	22
15	42	24E	22E	22E	28	24E	42	43	64	31	25	21
16	34	21E	23E	24E	29	26E	40	38	72	29	25	23
17	25	23E	24E	25E	30	28E	37	30	151	29	25	19
18	22	25E	24E	26E	29	30E	37	30	288	28	25	18
19	22	24E	23E	25E	28	31E	37	30	144	24	24	18
20	21	27E	23E	24E	28	32	36	33	56	26	21	17
21	21	28E	22E	25E	28	32	34	35	45	22	172	17
22	20	26E	23E	27E	28	32	34	96	39	53	41	17
23	21	27E	21E	28E	28	33	34	66	85	87	30	17
24	22	26	20E	29E	28	33	33	37	113	82	27	17
25	35	26	20E	27E	28	34	33	37	66	190	23	17
26	34	27	21E	30E	29	33	35	33	48	102	22	18
27	29E	28	22E	33E	29	49	35	31	37	71	20	18
28	27E	27	23E	36E	27E	476	35	29	36	59	20	19
29	24E	27	24E	38E	-----	105	35	27	32	57	23	17
30	25	27	22E	39E	-----	61	34	27	29	43	22	17
31	27	-----	24E	40E	-----	50	-----	27	-----	37	24	-----
TOTAL	748	794	706	834	856	1,421	1,187	1,098	1,756	2,861	1,054	563
MEAN	24.1	26.5	22.8	26.9	30.6	45.8	39.6	35.4	58.5	92.3	34.0	18.8
MAX	42	29	27	40	40	476	57	96	288	798	172	23
MIN	16	21	20	21	27	18	33	27	26	22	20	17
AC-FT	1,480	1,570	1,400	1,650	1,700	2,820	2,350	2,180	3,480	5,670	2,090	1,120
CAL YEAR 1997	TOTAL	10,349.8	MEAN	28.4	MAX	182	MIN	2.9	AC-FT	20,530		
WTR YEAR 1998	TOTAL	13,878.0	MEAN	38.0	MAX	798	MIN	16	AC-FT	27,530		

E indicates estimated discharge.

PLATTE RIVER BASIN (LOUP RIVER)

SHERMAN RESERVOIR near Loup City, 06784200 - 1998

LOCATION.--SW1/4SW1/4 Sec. 36-16-14 W.

GAGE.--Staff gage

PERIOD OF RECORD.--1963 - present

STORAGE LEVEL	ELEVATION (Feet)	CONTENT (Acre-feet)
Top of conservation pool	2,162.3	69,076
Top of dead storage pool	2,118.5	3,839

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

ay	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55,920	55,170	53,700	52,480	51,530	50,820	50,580	52,480	68,790	69,360	64,040	48,270
2	55,920	54,920	53,700	52,480	51,530	50,580	50,580	53,210	69,080	69,360	64,310	48,040
3	55,920	54,920	53,700	52,480	51,290	50,580	50,580	53,550	69,080	69,650	64,580	47,810
4	55,920	54,670	53,550	52,240	51,290	50,580	50,580	53,940	69,080	69,360	64,580	47,310
5	55,670	54,670	53,550	52,240	51,290	50,580	50,350	54,430	69,080	69,080	64,580	47,310
6	55,670	54,670	53,550	52,240	51,290	50,580	50,350	54,920	69,080	68,790	64,580	47,310
7	55,670	54,670	53,550	52,240	51,290	50,580	50,580	55,420	69,360	69,080	64,310	47,310
8	55,670	54,670	53,210	52,240	51,290	50,580	50,820	55,920	69,360	69,080	64,040	47,140
9	55,420	54,670	53,210	52,240	51,290	50,350	50,820	56,420	69,650	69,360	63,760	47,810
10	55,420	54,430	53,210	52,240	51,290	50,350	50,820	56,930	69,650	69,650	63,490	48,270
11	55,420	54,430	53,210	52,000	51,290	50,350	50,820	57,430	69,650	69,650	63,220	48,730
12	55,420	54,430	53,210	52,000	51,290	50,350	50,580	57,940	69,650	69,360	62,400	49,190
13	55,670	54,430	53,210	52,000	51,290	50,350	50,580	58,460	69,360	69,360	61,610	49,880
14	55,420	54,430	53,210	52,000	51,060	50,110	50,580	59,240	69,650	69,080	61,080	50,350
15	55,420	54,190	52,970	52,000	51,060	50,110	50,820	59,750	69,360	68,790	60,540	50,350
16	55,420	54,190	52,970	52,000	51,060	50,110	50,820	60,280	69,080	67,930	59,750	51,290
17	55,170	54,190	52,970	52,000	51,060	50,110	50,580	60,810	68,790	66,530	59,240	51,770
18	55,170	54,190	52,970	52,000	51,060	50,110	50,580	61,340	69,080	65,400	58,460	52,240
19	55,170	54,190	52,970	51,770	51,060	50,110	50,580	61,870	69,080	64,040	57,430	52,720
20	55,170	54,190	52,970	51,770	51,060	50,110	50,580	62,400	69,080	62,940	56,170	53,210
21	54,920	53,940	52,970	51,770	51,060	50,110	50,580	62,940	69,080	61,870	54,920	53,700
22	54,920	53,940	52,970	51,770	51,060	50,110	50,580	63,760	69,080	61,080	53,940	53,940
23	54,920	53,940	52,970	51,770	50,820	50,110	50,820	64,310	69,360	61,080	52,970	54,430
24	54,920	53,940	52,720	51,770	50,820	50,110	51,060	64,860	69,360	61,340	52,000	54,920
25	55,170	53,940	52,720	51,770	50,820	50,110	51,530	65,400	69,650	61,610	51,290	55,420
26	55,170	53,940	52,720	51,770	50,820	50,110	52,240	65,960	69,650	62,140	50,580	56,170
27	55,170	53,700	52,720	51,530	50,820	50,110	52,000	66,530	69,650	62,670	49,880	56,170
28	55,170	53,700	52,720	51,530	50,820	50,580	52,000	67,370	69,360	62,940	49,650	56,170
29	55,170	53,700	52,480	51,530	-----	50,580	52,000	67,930	69,360	63,220	49,190	56,170
30	55,170	53,700	52,720	51,530	-----	50,580	52,000	68,210	69,360	63,490	48,730	55,290
31	55,170	-----	52,480	51,530	-----	50,580	-----	68,500	-----	63,760	48,730	-----
MAX	55,920	55,170	53,700	52,480	51,530	50,820	52,240	68,500	69,650	69,650	64,580	56,170
MIN	54,920	53,700	52,480	51,530	50,820	50,110	50,350	52,480	68,790	61,080	48,730	47,140
CHANGE	-500	-1,470	-1,220	-950	-710	-240	1,420	16,500	860	-5,600	-15,030	6,560
CAL YEAR 1997			MEAN	54,221	MAX	69,650	MIN	39,920				
WTR YEAR 1998			MEAN	56,073	MAX	69,650	MIN	47,140				

**PLATTE RIVER BASIN
(LOUP RIVER)**

FARWELL "MAIN" CANAL from Sherman Reservoir, 00048000 - 1998

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

GAGE.--Continuous stage recorder and six orifice gates

PERIOD OF RECORD.--1964 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	104	116	166	267
2								0	104	139	183	258
3								0	114	195	172	240
4								0	120	263	153	218
5								0	127	280	153	172
6								0	132	147	170	160
7								0	133	100	216	151
8								0	127	88	248	46
9								0	120	83	255	0
10								0	118	88	248	0
11								0	118	102	322	0
12								0	124	107	356	0
13								0	127	188	206	0
14								0	127	307	149	0
15								0	127	401	147	0
16								0	129	436	147	0
17								0	129	457	173	0
18								0	124	453	258	0
19								0	123	448	348	0
20								0	123	443	440	0
21								0	123	453	433	0
22								0	121	177	382	0
23								0	123	66	368	0
24								0	118	76	363	0
25								0	113	79	368	0
26								0	105	79	373	0
27								0	101	74	354	0
28								0	101	71	316	0
29					-----			66	96	76	298	0
30					-----			104	99	79	291	0
31		-----			-----		-----	104	-----	107	283	-----
TOTAL								274	3,550	6,178	8,339	1,512
MEAN								8.84	118	199	269	50.4
MAX								104	133	457	440	267
MIN								0	96	66	147	0
AC-FT								543	7,040	12,250	16,540	3,000
CAL YEAR 1997	MAX	480	MIN	0	AC-FT	45,620						
WTR YEAR 1998	MAX	457	MIN	0	AC-FT	39,380						

PLATTE RIVER BASIN (LOUP RIVER)

FARWELL "SOUTH" CANAL from Sherman Reservoir, 00049000 - 1998

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

GAGE.--Continuous stage recorder and four orifice gates

PERIOD OF RECORD.--1965 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	104	116	166	267
2								0	104	139	183	258
3								0	114	195	172	240
4								0	120	263	153	218
5								0	127	280	153	172
6								0	132	147	170	160
7								0	133	100	216	151
8								0	127	88	248	46
9								0	120	83	255	0
10								0	118	88	248	0
11								0	118	102	322	0
12								0	124	107	356	0
13								0	127	188	206	0
14								0	127	307	149	0
15								0	127	401	147	0
16								0	129	436	147	0
17								0	129	457	173	0
18								0	124	453	258	0
19								0	123	448	348	0
20								0	123	443	440	0
21								0	123	453	433	0
22								0	121	177	382	0
23								0	123	66	368	0
24								0	118	76	363	0
25								0	113	79	368	0
26								0	105	79	373	0
27								0	101	74	354	0
28								0	101	71	316	0
29					-----			66	96	76	298	0
30					-----			104	99	79	291	0
31		-----			-----		-----	104	-----	107	283	-----
TOTAL								274	3,550	6,178	8,339	1,512
MEAN								8.84	118	199	269	50.4
MAX								104	133	457	440	267
MIN								0	96	66	147	0
AC-FT								543	7,040	12,250	16,540	3,000
CAL YEAR 1997	MAX	259	MIN	0	AC-FT	25,200						
WTR YEAR 1998	MAX	457	MIN	0	AC-FT	39,380						

PLATTE RIVER BASIN (LOUP RIVER)

TURKEY CREEK near Dannebrog, 06784800 - 1998

LOCATION.--SW1/4NW1/4 Sec. 26-14-11 W., Howard County, Lat. 41° 09' 24", Long. 98° 33' 22", on left bank 25 feet downstream from State Highway 11 bridge, 2.8 miles north of Dannebrog, and 10 miles above mouth.

DRAINAGE AREA.--66.2 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,870.35 feet above sea level.

PERIOD OF RECORD.--1966 - 1970, 1978 - present

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 2,680 cubic feet per second June 14, 1967, gage height 19.21 feet; maximum gage height 19.26 feet June 12, 1983; no flow May 17-20, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge 923 cubic feet per second June 19, gage height 15.15 feet, minimum daily discharge 6.3 cubic feet per second September 23.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	23	13	12	12	10 E	23	16	13	19	18	27
2	14	21	13	13	11	10 E	21	16	13	21	28	26
3	14	20	13	13	11	11	19	15	12	22	28	26
4	14	19	13	11 E	11	11	18	15	13	22	27	26
5	13	18	11E	10 E	11	11	17	15	13	46	24	24
6	13	17	11E	9.2E	10	10	17	14	12	62	21	23
7	13	17	11E	9.6E	9.6E	11	94	14	12	53	23	22
8	14	18	12	9.0E	11	10 E	180	14	21	24	26	22
9	14	18	12	9.6E	11	9.0E	66	14	22	20	28	19
10	13	17	12	9.0E	13	8.6E	37	14	18	19	32	21
11	13	17	12	9.4E	13	8.4E	31	15	34	18	32	17
12	74	17	11E	9.2E	12	9.2E	28	33	49	18	51	12
13	78	17	11E	9.6E	12	10 E	25	16	17	18	47	9.3
14	26	18	12	9.4E	12	11 E	24	14	62	20	31	9.1
15	19	15E	12	9.0E	12	12 E	106	14	46	26	25	8.6
16	17	14E	12	9.4E	14	13	43	15	21	29	25	7.3
17	16	15E	12	10 E	14	13	28	14	19	31	25	6.7
18	15	16	12	9.8E	13	14	25	13	308	34	26	6.4
19	15	16	12	9.8E	13	13	23	12	403	37	28	6.6
20	15	16	12	9.4E	12	12	23	30	44	35	30	6.7
21	14	15	11	9.0E	12	15	21	20	28	35	54	6.6
22	13	15	12	9.4E	12	16	20	36	25	91	59	6.4
23	13	14	12	9.0E	12	15	19	17	176	51	36	6.3
24	13	14	11	8.8E	11	14	19	117	211	20	34	6.8
25	34	14	12	9.6E	11	14	18	28	37	17	36	6.6
26	25	14	11	10	12	14	18	18	29	23	34	6.9
27	21	13	11	11	12	23	18	16	26	24	33	7.0
28	24	13	12	12	11	85	18	15	23	20	33	6.5
29	54	13	11	12	-----	28	17	14	22	18	33	6.5
30	47	13	11	12	-----	21	16	14	20	18	30	6.5
31	29	-----	11	12	-----	21	-----	13	-----	17	33	-----
TOTAL	712	487	364	315.2	330.6	483.2	1,032	631	1,749	908	990	391.8
MEAN	23.0	16.2	11.7	10.2	11.8	15.6	34.4	20.4	58.3	29.3	31.9	13.1
MAX	78	23	13	13	14	85	180	117	403	91	59	27
MIN	13	13	11	8.8	9.6	8.4	16	12	12	17	18	6.3
AC-FT	1,410	966	722	625	656	958	2,050	1,250	3,470	1,800	1,960	777
CAL YEAR 1997 TOTAL		6,956.1	MEAN	19.1	MAX	428	MIN	8.0	AC-FT	13,800		
WTR YEAR 1998 TOTAL		8,393.8	MEAN	23.0	MAX	403	MIN	6.3	AC-FT	16,650		

E indicates estimated discharge.

PLATTE RIVER BASIN (LOUP RIVER)

TAYLOR-ORD CANAL from North Loup River, 00107000 - 1998

LOCATION.--NE1/4NE1/4 Sec. 20-21-18 W. near Taylor

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1939 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	59	97	206	149
2							0	0	58	105	199	150
3							0	0	57	108	183	146
4							0	50	48	100	185	150
5							0	89	49	100	179	147
6							0	37	47	101	180	142
7							0	39	43	107	177	129
8							0	47	48	115	177	130
9							0	55	47	117	177	116
10							0	56	46	118	160	108
11							0	54	46	130	138	107
12							0	56	47	138	129	105
13							0	55	46	164	128	104
14							0	56	47	187	127	99
15							0	59	45	197	132	91
16							0	58	45	201	122	81
17							0	59	46	207	123	87
18							0	58	46	208	148	73
19							0	58	46	209	173	68
20							0	58	47	209	194	74
21							0	58	49	208	189	44
22							0	60	47	208	181	0
23							0	59	47	211	181	0
24							0	59	47	210	183	0
25							0	58	48	209	181	0
26							0	56	48	209	163	0
27							0	59	46	205	158	0
28							0	58	48	203	154	0
29					-----		9.8	58	52	206	152	0
30					-----		5.7	58	78	207	152	0
31		-----			-----		-----	58	-----	205	150	-----
TOTAL							15.5	1,585	1,478	5,199	5,081	2,302
MEAN							.52	51.1	49.3	168	164	76.7
MAX							9.8	89	78	211	206	150
MIN							0	0	45	97	122	0
AC-FT							31	3,140	2,930	10,310	10,080	4,570
CAL YEAR 1997	MAX	208	MIN	0	AC-FT	28,430						
WTR YEAR 1998	MAX	211	MIN	0	AC-FT	31,060						

**PLATTE RIVER BASIN
(LOUP RIVER)**

TAYLOR-ORD CANAL inlet to Mirdan Canal, 00107100 - 1998

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

GAGE.--Continuous stage recorder and modified Parshall flume

PERIOD OF RECORD.--1989 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	41	78	137	91
2								0	41	81	140	93
3								0	45	92	126	91
4								0	36	83	127	93
5								27	34	82	128	94
6								39	35	83	127	96
7								12	32	83	121	92
8								15	35	90	118	92
9								28	36	93	117	91
10								33	33	94	119	82
11								28	34	100	97	82
12								27	34	101	103	83
13								28	35	108	87	84
14								22	38	114	82	84
15								25	33	128	83	67
16								26	33	125	78	54
17								25	34	129	65	42
18								23	36	126	64	36
19								22	34	125	85	33
20								27	35	127	106	33
21								27	36	119	113	32
22								31	35	122	119	18
23								36	35	129	120	4.3
24								34	34	133	120	0
25								33	34	134	124	0
26								33	35	136	111	0
27								34	35	132	98	0
28								36	35	128	95	0
29					-----			36	35	132	93	0
30					-----			38	52	135	95	0
31		-----			-----		-----	39	-----	136	96	-----
TOTAL								784	1,080	3,478	3,294	1,567.3
MEAN								25.3	36.0	112	106	52.2
MAX								39	52	136	140	96
MIN								0	32	78	64	0
AC-FT								1,560	2,140	6,900	6,530	3,110
CAL YEAR 1997	MAX	140	MIN	0	AC-FT	20,210						
WTR YEAR 1998	MAX	140	MIN	0	AC-FT	20,240						

PLATTE RIVER BASIN (LOUP RIVER)

TAYLOR-ORD CANAL outlet from Mirdan Canal, 00107200 - 1998

LOCATION.--NW1/4NW1/4 Sec. 17-20-15 W. near Elyria

GAGE.--Continuous stage recorder and modified Parshall flume

PERIOD OF RECORD.--1989 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	36	53	89	70
2								0	37	62	90	66
3								7.4	39	74	86	67
4								44	36	74	83	66
5								36	31	72	87	70
6								57	29	80	89	73
7								15	27	78	85	71
8								9.7	28	77	82	68
9								20	31	77	80	69
10								28	30	73	82	66
11								29	29	76	81	64
12								25	28	79	83	63
13								25	29	72	85	67
14								24	32	67	83	71
15								20	32	73	76	60
16								20	31	78	77	56
17								19	31	79	70	40
18								20	33	82	65	32
19								19	31	82	65	30
20								21	31	83	60	28
21								21	32	78	65	12
22								24	31	74	72	3.6
23								29	32	71	78	.79
24								27	31	80	82	0
25								28	30	87	86	0
26								30	32	88	84	0
27								30	32	87	74	0
28								32	30	82	67	0
29					-----			32	30	86	64	0
30					-----			32	38	88	63	0
31		-----			-----		-----		-----	89	69	-----
TOTAL								724.1	949	2,401	2,402	1,213.39
MEAN								24.1	31.6	77.5	77.5	40.4
MAX								57	39	89	90	73
MIN								0	27	53	60	0
AC-FT								1,440	1,880	4,760	4,760	2,410
CAL YEAR 1997	MAX	90	MIN	0	AC-FT	15,170						
WTR YEAR 1998	MAX	90	MIN	0	AC-FT	15,250						

**PLATTE RIVER BASIN
(LOUP RIVER)**

KENT CANAL from North Loup River, 00076500 - 1998

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

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

PERIOD OF RECORD.--1995 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	269	310			
2							0	272	313			
3							0	268	312			
4							0	326	311			
5							0	324	308			
6							0	312	308			
7							0	327	306			
8							0	328	297			
9							0	314	297			
10							0	312	301			
11							0	310	302			
12							0	306	301			
13							24	308	300			
14							88	308	301			
15							116	307	295			
16							154	306	297			
17							235	313	283			
18							265	314	240			
19							268	317	120			
20							266	308	56			
21							265	308	32			
22							265	308	6.5			
23							265	306	0			
24							266	305	0			
25							265	306	0			
26							267	304	0			
27							264	308	0			
28							263	311	0			
29					-----		263	312	0			
30					-----		266	310	0			
31		-----			-----		-----	308	-----			-----
TOTAL							4,065	9,535	5,598.5			
MEAN							136	308	187			
MAX							268	328	313			
MIN							0	268	0			
AC-FT							8,060	18,910	11,100			
CAL YEAR 1997	MAX		MIN									0
WTR YEAR 1998	MAX	328	MIN	0			AC-FT	38,080				

PLATTE RIVER BASIN (LOUP RIVER)

CALAMUS RIVER near Harrop, 06787000 - 1998

LOCATION.--NW1/4SE1/4 Sec. 22-23-18 W., Loup County, Lat. 41° 56' 48", Long. 99° 23' 10", on the right bank 44 feet upstream from bridge on U.S. Highway 183, 12.2 miles north of Taylor.

DRAINAGE AREA.--693 square miles, most of which does not contribute directly to surface runoff.

GAGE.--Continuous stage recorder. Gage elevation is about 2,260 feet above sea level from topographic map.

PERIOD OF RECORD.--June 1978 - present (see USGS reports for other non-continuous periods).

REMARKS.--Record published by U. S. Geological Survey up to Oct. 1, 1997. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1,380 cubic feet per second May 28, 1995, gage height 4.68 feet; maximum gage height 5.34 feet March 29, 1987 due to backwater from ice; minimum daily discharge 90 cubic feet per second January 7, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge 837 cubic feet per second June 26, gage height 4.43 feet; maximum gage height 4.50 feet March 12 due to backwater from ice; minimum daily discharge 197 cubic feet per second September 8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240	342	288	286	289	316	324	264	288	342	247	234
2	242	321	292	298	294	313	339	261	271	320	272	228
3	241	294	288	296	285	322	381	257	276	398	306	217
4	238	284	287	285	283	316	420	254	276	516	290	210
5	237	288	282	268	273	318	441	251	280	520	288	205
6	234	280	275	267	266	309	405	250	277	509	280	204
7	235	276	276	263	262	308	379	247	276	473	275	202
8	242	275	280	264	260	289	354	242	460	451	267	197
9	247	274	284	260	274	276	325	268	566	393	255	225
10	240	267	281	250E	291	260E	310	288	472	368	254	238
11	239	261	269	230E	287	240E	309	289	499	357	246	223
12	312	255	268	210E	282	220E	304	311	525	339	314	205
13	391	256	277	220E	293	280E	286	320	456	328	304	199
14	356	251	285	230E	299	305	275	349	410	317	317	250
15	369	249	295	250E	296	306	299	351	417	299	282	284
16	347	247	294	260E	311	301	314	343	415	285	280	273
17	338	254	304	250E	325	310	322	329	456	277	271	249
18	317	259	307	260E	346	318	327	304	470	263	266	235
19	305	262	303	260E	345	320	324	294	471	249	275	222
20	281	270	294	250E	333	312	319	345	407	248	416	218
21	274	273	301	250E	318	323	302	325	369	242	399	223
22	270	274	305	248	325	337	295	318	329	239	399	223
23	273	269	296	248	324	346	293	335	465	241	397	221
24	275	273	296	252	325	348	287	421	610	245	329	222
25	303	284	288	254	329	353	309	412	770	248	312	223
26	274	284	284	258	328	348	313	403	827	256	314	220
27	275	291	281	269	319	391	286	369	728	251	305	219
28	299	296	276	274	316	368	274	337	610	247	284	221
29	318	295	276	277	-----	351	268	328	477	243	261	220
30	326	294	280	276	-----	345	266	309	379	241	245	220
31	341	-----	272	281	-----	356	-----	305	-----	244	237	-----
TOTAL	8,879	8,298	8,884	8,044	8,478	9,805	9,650	9,679	13,532	9,949	9,187	6,730
MEAN	286	277	287	259	303	316	322	312	451	321	296	224
MAX	391	342	307	298	346	391	441	421	827	520	416	284
MIN	234	247	268	210	260	220	266	242	271	239	237	197
AC-FT	17,610	16,460	17,620	15,960	16,820	19,450	19,140	19,200	26,840	19,730	18,220	13,350

CAL YEAR 1997	TOTAL	106,307	MEAN	291	MAX	600	MIN	192	AC-FT	210,900
WTR YEAR 1998	TOTAL	111,115	MEAN	304	MAX	827	MIN	197	AC-FT	220,400

E indicates estimated discharge.

PLATTE RIVER BASIN (LOUP RIVER)

CALAMUS RESERVOIR from Calamus River, 06787300 - 1998

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

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

PERIOD OF RECORD.--1985 - present

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

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84,500	103,300	117,200	118,000	117,900	118,400	120,400	127,900	128,000	128,100	113,200	96,150
2	84,730	104,000	117,400	118,000	118,000	118,100	120,800	127,900	128,100	127,900	113,000	95,690
3	85,000	104,650	117,600	118,000	117,900	117,900	121,000	127,800	128,100	128,300	112,500	95,050
4	85,480	105,000	117,700	118,000	117,900	117,900	121,200	127,700	128,100	128,800	111,900	94,500
5	85,710	105,700	117,600	118,000	118,000	118,200	121,600	127,900	128,100	128,100	111,300	93,960
6	86,030	106,100	117,500	118,100	118,000	118,100	122,000	127,900	128,300	128,100	110,700	93,410
7	86,780	106,700	117,600	117,900	117,900	118,300	122,300	127,900	128,400	127,800	110,000	93,080
8	87,260	107,100	117,700	117,700	118,000	118,600	122,600	127,900	129,000	127,100	109,400	92,580
9	87,890	107,800	117,900	118,000	118,000	118,500	122,500	128,000	129,800	127,000	108,800	91,920
10	88,420	108,200	117,900	117,700	118,200	118,300	122,600	128,300	129,700	128,800	108,500	91,380
11	88,700	108,900	117,900	117,600	118,200	118,500	122,800	128,300	129,200	126,500	108,000	91,020
12	90,030	109,300	118,000	117,600	118,200	118,300	123,000	128,400	128,900	126,100	107,200	90,560
13	90,600	110,000	118,000	117,700	118,200	118,500	123,400	128,300	128,900	125,400	106,700	90,030
14	91,300	110,600	118,000	117,600	118,200	118,500	123,500	128,300	129,500	125,500	106,300	89,990
15	92,080	110,900	118,100	117,500	118,200	118,900	123,900	128,400	129,200	125,300	105,800	89,630
16	92,790	111,300	118,100	117,700	118,300	118,900	124,000	128,600	128,900	124,800	105,200	89,220
17	93,370	112,100	118,100	118,000	118,300	118,900	124,200	128,600	129,400	123,900	105,100	88,480
18	94,170	112,500	118,100	118,100	118,300	119,000	124,800	128,800	129,800	123,200	104,500	88,740
19	94,970	113,100	118,100	118,100	118,300	118,800	125,200	128,600	129,400	122,300	103,800	88,300
20	95,220	113,700	118,000	118,200	118,300	118,700	125,400	129,200	129,200	121,300	103,000	87,900
21	97,090	114,100	118,000	118,100	118,300	118,500	125,500	128,900	128,600	120,800	102,500	87,220
22	96,710	114,800	117,800	117,800	118,400	118,600	126,000	128,800	128,400	119,600	101,700	86,780
23	97,090	115,300	117,800	118,000	118,500	118,500	126,300	128,100	128,600	118,900	101,300	86,460
24	97,690	115,900	117,900	117,900	118,300	118,500	126,400	129,200	129,600	118,300	100,600	86,460
25	97,760	116,300	118,100	118,000	118,500	118,500	126,700	129,000	129,600	117,500	100,200	86,420
26	99,360	117,100	118,000	118,100	118,900	118,900	127,600	128,800	129,300	117,000	99,510	86,420
27	99,900	117,100	118,000	118,000	118,600	119,600	127,600	128,800	129,400	116,400	98,910	86,420
28	100,800	117,200	118,100	118,000	118,900	119,700	127,700	128,600	128,900	115,900	98,380	86,380
29	101,100	117,200	118,100	118,000	-----	119,800	127,400	128,300	128,600	115,400	98,040	86,300
30	101,900	117,200	118,100	117,900	-----	120,000	127,900	128,200	128,300	114,700	97,180	86,220
31	102,600	-----	118,000	118,000	-----	120,400	-----	128,200	-----	114,000	96,750	-----
MAX	102,600	117,200	118,100	118,200	118,900	120,400	127,900	129,200	129,800	128,800	113,200	96,150
MIN	84,500	103,300	117,200	117,500	117,900	117,900	120,400	127,700	128,000	114,000	96,750	86,220
CHANGE	18,030	14,600	800	0	900	1,500	7,500	300	100	-14,300	-17,250	-10,530
CAL YEAR 1997			MEAN	112,523	MAX	128,800	MIN	84,500				
WTR YEAR 1998			MEAN	114,662	MAX	129,800	MIN	84,500				

PLATTE RIVER BASIN (LOUP RIVER)

MIRDAN CANAL from Calamus Reservoir, 00100500 - 1998

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

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

PERIOD OF RECORD.--1987 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	162	256	264
2									0	170	250	270
3									0	177	197	229
4									0	190	176	220
5									0	200	173	196
6									0	230	188	193
7									0	272	191	182
8									0	289	206	187
9									0	296	211	195
10									0	288	239	193
11									0	284	250	136
12									0	285	261	105
13									0	289	240	125
14									0	305	227	129
15									0	326	224	111
16									0	358	223	24
17									11	376	259	0
18									60	393	377	0
19									168	397	412	0
20									213	401	406	0
21									214	421	346	0
22									190	339	266	0
23									168	264	258	0
24									162	260	275	0
25									162	235	275	0
26									136	228	275	0
27									124	218	270	0
28									124	239	288	0
29					-----				124	263	269	0
30					-----				133	263	262	0
31		-----			-----		-----		-----	269	275	-----
TOTAL									1,989	8,687	8,027	2,761
MEAN									66.3	280	259	92.0
MAX									214	421	412	270
MIN									0	162	173	0
AC-FT									3,950	17,230	15,920	5,480
CAL YEAR 1997	MAX	475	MIN	0	AC-FT	65,990						
WTR YEAR 1998	MAX	421	MIN	0	AC-FT	42,570						

PLATTE RIVER BASIN (LOUP RIVER)

CALAMUS FISH HATCHERY INLET from Calamus Reservoir, 00019800 - 1998

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

GAGE.--Flow meter

PERIOD OF RECORD.--1994 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	3.8	3.3	3.0	3.1	3.6	3.1	4.3	3.6	5.3	5.0	6.0
2	0	4.1	3.2	3.0	3.1	3.6	3.6	4.4	3.7	3.1	5.0	6.3
3	0	3.8	3.3	3.0	3.1	3.6	4.4	4.4	3.4	3.0	5.3	7.4
4	0	4.3	3.3	3.0	3.1	3.6	4.3	7.0	3.6	3.1	5.8	6.8
5	0	4.0	3.3	3.0	3.1	3.6	4.5	8.0	3.5	3.0	5.8	6.8
6	0	1.8	3.2	3.1	3.1	3.6	8.4	10	2.3	3.0	5.5	6.6
7	0	1.7	3.2	3.0	3.1	3.6	15	12	3.5	3.1	5.0	6.7
8	0	3.3	3.2	3.1	3.1	3.6	15	8.8	3.7	3.4	4.5	6.6
9	2.6	3.3	3.3	3.1	3.1	3.7	12	9.4	3.7	4.2	5.3	6.1
10	4.7	3.3	3.2	3.1	3.1	3.6	5.8	9.0	4.6	3.9	5.1	7.4
11	6.9	3.3	3.2	3.1	3.2	3.6	6.3	7.8	6.2	4.3	5.1	7.4
12	6.9	3.3	3.2	3.0	3.4	3.6	5.3	7.4	8.5	4.5	5.3	7.8
13	6.9	3.3	3.2	3.0	3.4	3.6	5.6	7.4	11	4.2	5.2	7.9
14	6.8	3.3	3.2	3.1	3.4	3.6	5.8	2.8	7.0	3.8	5.0	7.9
15	6.7	3.4	3.3	3.1	3.5	3.6	7.2	2.7	6.1	3.4	5.2	6.7
16	6.3	3.3	3.2	3.1	3.6	3.6	11	2.3	3.4	3.4	6.0	5.6
17	3.6	3.3	3.3	3.1	3.6	3.7	11	2.5	2.4	3.7	5.6	5.2
18	1.9	3.3	3.2	3.1	3.7	3.6	8.7	4.9	2.6	4.3	4.9	4.7
19	1.9	3.3	3.2	3.1	3.6	3.6	7.3	3.0	2.5	4.4	5.7	4.2
20	1.8	3.3	3.2	3.1	3.7	3.7	14	2.8	2.5	4.6	5.2	6.2
21	1.8	3.3	3.2	3.1	3.7	3.6	14	3.1	2.4	4.5	4.3	3.5
22	1.8	3.3	3.2	3.2	3.7	3.6	10	2.8	3.1	4.5	4.2	5.7
23	1.9	3.3	3.2	3.1	3.7	3.7	4.3	2.7	3.5	4.5	5.0	4.3
24	2.5	3.3	3.2	3.1	3.7	3.6	4.0	2.0	3.5	4.5	4.4	3.2
25	2.5	3.3	3.2	3.1	3.7	3.6	4.0	2.8	4.1	4.6	3.8	2.5
26	2.4	3.3	3.0	3.1	3.6	3.0	4.0	2.7	4.0	6.3	4.7	2.7
27	2.4	3.3	3.0	3.1	3.7	2.7	4.0	2.3	4.1	7.1	5.5	2.7
28	3.4	3.3	3.0	3.1	3.7	2.7	4.1	2.5	4.0	7.0	5.3	3.6
29	5.2	3.3	3.2	3.1	-----	2.6	4.3	4.9	4.1	6.2	5.4	4.2
30	4.0	3.3	3.0	3.1	-----	3.0	4.4	3.0	6.6	5.0	5.8	4.3
31	3.8	-----	3.0	3.1	-----	3.4	-----	2.8	-----	5.0	6.3	-----
TOTAL	90.7	99.5	98.9	95.4	95.6	107.8	215.4	152.5	127.2	134.9	160.2	167.0
MEAN	2.93	3.32	3.19	3.08	3.41	3.48	7.18	4.92	4.24	4.35	5.17	5.57
MAX	6.9	4.3	3.3	3.2	3.7	3.7	15	12	11	7.1	6.3	7.9
MIN	0	1.7	3.0	3.0	3.1	2.6	3.1	2.0	2.3	3.0	3.8	2.5
AC-FT	180	197	196	189	190	214	427	302	252	268	318	331
CAL YEAR 1997	TOTAL	1,553.9	MEAN	4.26	MAX	14	MIN	0	AC-FT	3,080		
WTR YEAR 1998	TOTAL	1,545.1	MEAN	4.23	MAX	15	MIN	0	AC-FT	3,060		

PLATTE RIVER BASIN (LOUP RIVER)

INLET TO DAVIS CREEK RESERVOIR from Mirdan Canal, 00088500 - 1998

LOCATION.--SE1/4NE1/4 Sec. 15-17-13 W. near North Loup

GAGE.--Continuous stage recorder and modified Parshall Flume

PERIOD OF RECORD.--1991 to present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	245	242	54	66	29
2							0	242	239	46	67	13
3							0	241	237	49	47	12
4							0	241	241	52	39	21
5							0	242	245	56	39	36
6							0	243	245	46	40	41
7							0	240	247	39	40	37
8							0	231	248	37	40	29
9							0	234	248	32	40	28
10							0	242	247	25	33	27
11							0	244	247	31	21	13
12							0	241	245	38	25	13
13							0	240	244	42	26	21
14							0	237	245	43	24	15
15							0	237	245	39	25	12
16							22	237	245	19	27	14
17							105	236	242	26	22	38
18							196	236	243	34	28	39
19							228	237	233	35	27	36
20							238	240	217	31	22	30
21							244	241	198	35	20	33
22							244	242	143	58	17	21
23							246	243	115	70	16	27
24							245	244	97	68	14	36
25							245	244	57	63	18	43
26							246	244	62	62	17	40
27							248	244	61	65	19	24
28							246	244	60	69	23	4.8
29					-----		245	242	58	69	31	.42
30					-----		245	241	58	63	31	0
31		-----			-----		-----	241	-----	63	27	-----
TOTAL							3,243	7,456	5,754	1,459	931	733.22
MEAN							108	241	192	47.1	30.0	24.4
MAX							248	245	248	70	67	43
MIN							0	231	57	19	14	0
AC-FT							6,430	14,790	11,410	2,890	1,850	1,450
CAL YEAR 1997	MAX	199	MIN	0	AC-FT	25,380						
WTR YEAR 1998	MAX	248	MIN	0	AC-FT	38,830						

PLATTE RIVER BASIN (LOUP RIVER)

DAVIS CREEK RESERVOIR from Calamus Reservoir via Mirdan Canal, 06789400 - 1998

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1992 to present

STORAGE LEVEL	ELEVATION (Feet)	CONTENT (Acre-feet)
Top of irrigation pool	2076.0	31,158
Top of inactive pool	2003.0	172
Top of dead storage pool	1998.5	76

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,090	6,390	6,360	6,280	6,190	6,080	6,130	12,530	23,590	31,310	25,780	16,080
2	6,100	6,390	6,360	6,280	6,190	6,070	6,130	12,990	23,960	31,250	25,740	15,708
3	6,110	6,400	6,360	6,280	6,180	6,070	6,130	13,400	24,220	31,140	25,690	15,280
4	6,120	6,410	6,350	6,270	6,180	6,060	6,120	13,820	24,580	31,000	25,610	14,690
5	6,130	6,410	6,350	6,270	6,180	6,060	6,120	14,250	24,890	30,910	25,460	14,210
6	6,140	6,400	6,340	6,270	6,170	6,050	6,110	14,910	25,240	30,820	25,350	13,840
7	6,130	6,400	6,340	6,260	6,170	6,050	6,150	15,230	25,680	30,760	25,250	13,360
8	6,130	6,400	6,340	6,260	6,160	6,060	6,180	15,840	26,100	30,680	25,140	12,960
9	6,130	6,390	6,340	6,260	6,160	6,060	6,180	16,130	26,530	30,610	25,060	12,450
10	6,180	6,390	6,340	6,260	6,160	6,040	6,180	16,720	26,890	30,470	24,930	11,980
11	6,190	6,390	6,340	6,250	6,160	6,040	6,180	16,830	27,280	30,370	24,460	11,500
12	6,200	6,390	6,340	6,250	6,160	6,030	6,180	17,070	27,560	30,360	24,070	11,010
13	6,280	6,390	6,330	6,240	6,160	6,030	6,200	17,270	27,920	30,160	23,760	10,450
14	6,280	6,390	6,330	6,240	6,160	6,020	6,220	17,560	28,420	30,060	23,480	9,840
15	6,290	6,380	6,330	6,240	6,160	6,020	6,260	17,960	28,760	29,900	23,260	9,210
16	6,290	6,380	6,330	6,230	6,160	6,020	6,370	18,240	29,040	29,340	23,750	8,350
17	6,300	6,370	6,320	6,230	6,150	6,030	6,560	18,500	29,390	28,820	22,850	7,890
18	6,310	6,370	6,320	6,230	6,150	6,040	6,810	18,780	30,030	28,120	22,430	7,230
19	6,310	6,370	6,320	6,220	6,150	6,030	7,200	19,170	30,320	27,530	21,910	6,760
20	6,310	6,370	6,320	6,220	6,140	6,030	7,480	19,470	30,660	27,020	21,560	6,490
21	6,310	6,380	6,320	6,220	6,140	6,030	7,910	19,820	30,940	26,290	20,980	6,370
22	6,300	6,380	6,320	6,220	6,130	6,020	8,400	20,180	31,170	25,960	20,350	6,430
23	6,300	6,370	6,310	6,210	6,120	6,020	8,990	20,540	31,340	25,830	19,770	6,490
24	6,300	6,370	6,310	6,210	6,120	6,020	9,290	20,860	31,460	25,840	19,250	6,550
25	6,290	6,380	6,310	6,210	6,110	6,020	9,850	21,220	31,510	25,860	18,720	6,650
26	6,290	6,380	6,300	6,200	6,110	6,010	10,320	21,400	31,490	25,880	18,320	6,720
27	6,360	6,380	6,290	6,200	6,110	6,020	10,770	21,880	31,470	25,880	17,910	6,770
28	6,370	6,370	6,290	6,200	6,090	6,050	11,200	22,220	31,440	25,790	17,540	6,850
29	6,370	6,370	6,280	6,200	-----	6,100	11,650	22,550	31,430	25,890	17,180	6,870
30	6,370	6,370	6,280	6,200	-----	6,140	12,090	22,890	31,360	25,890	16,880	6,880
31	6,380	-----	6,280	6,200	-----	6,130	-----	23,240	-----	25,820	16,590	-----
MAX	6,380	6,410	6,360	6,280	6,190	6,140	12,090	23,240	31,510	31,310	25,780	16,080
MIN	6,090	6,370	6,280	6,200	6,090	6,010	6,110	12,530	23,590	25,790	16,590	6,370
CHANGE	320	-10.0	-90.0	-80.0	-110	40.0	5,960	11,150	8,120	-5,540	-9,230	-9,710
CAL YEAR 1997			MEAN	18,756	MAX	31,110	MIN	5,430				
WTR YEAR 1998			MEAN	12,740	MAX	31,510	MIN	6,010				

PLATTE RIVER BASIN (LOUP RIVER)

FULLERTON CANAL from Davis Creek Reservoir, 00054700 - 1998

LOCATION.--SW1/4SW1/4 Sec. 30-17-13 W.

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1992 to present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	33	55	74	196
2								0	33	59	77	226
3								0	31	79	77	260
4								0	28	90	78	259
5								0	28	90	78	257
6								0	28	57	78	256
7								0	28	47	78	253
8								0	28	47	87	253
9								0	28	57	93	252
10								0	28	60	186	251
11								34	29	60	204	248
12								74	28	60	178	292
13								71	27	73	133	308
14								59	27	131	123	335
15								55	27	200	121	367
16								55	27	239	121	362
17								55	26	279	159	358
18								44	26	279	206	297
19								39	26	278	256	299
20								39	26	317	280	140
21								40	26	322	285	0
22								40	26	194	287	0
23								40	25	62	285	0
24								37	26	46	284	0
25								34	30	47	232	0
26								35	29	47	200	0
27								35	28	47	200	0
28								36	28	47	199	0
29					-----			35	35	47	198	0
30					-----			33	43	59	197	0
31		-----			-----		-----	33	-----	61	196	-----
TOTAL								923	858	3,536	5,250	5,369
MEAN								29.8	28.6	114	169	179
MAX								74	43	322	287	367
MIN								0	25	46	74	0
AC-FT								1,830	1,700	7,010	10,410	10,650
CAL YEAR 1997	MAX	300	MIN	0	AC-FT	37,190						
WTR YEAR 1998	MAX	367	MIN	0	AC-FT	31,610						

PLATTE RIVER BASIN (LOUP RIVER)

CALAMUS RIVER near Burwell, 06787500 - 1998

LOCATION.--NW1/4NW1/4 Sec. 9-21-16 W., Garfield County, Lat. 41° 48' 35", Long. 99° 10' 56", on left bank 20 feet downstream from highway bridge, 1.5 mile upstream from mouth, and 3 miles north west of Burwell and 1.1 mile downstream from the Calamus Dam.

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

GAGE.--Continuous stage recorder. Gage datum is 2,253.48 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, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 1,790 cubic feet per second May 4, 1964, gage height 7.35 feet; maximum gage height 8.90 feet January 26, 1967 due to backwater from ice; minimum daily discharge 13 cubic feet per second April 27, 1986, due to temporary closure of Calamus Dam.

EXTREMES FOR CURRENT YEAR.--Peak discharge 650 cubic feet per second June 8, gage height 3.53 feet; minimum daily discharge 35 cubic feet per second October 6.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257	67	274	349	357	361	264	364	358	378	369	338
2	215	65	276	349	357	349	262	378	324	352	381	345
3	169	68	292	345	359	349	261	353	314	344	416	350
4	103	70	296	344	358	330	260	337	304	430	434	352
5	62	68	290	341	359	318	257	332	300	454	442	353
6	35	67	285	340	358	313	259	332	312	442	446	353
7	39	64	284	340	358	311	263	342	330	414	432	350
8	58	63	295	335	360	317	264	334	459	374	414	349
9	56	65	312	327	359	322	243	330	642	335	400	348
10	61	65	326	325	367	324	232	342	642	293	402	348
11	70	65	332	322E	374	320E	228	364	639	274	406	359
12	78	65	328	320E	375	315E	230	383	574	268	406	368
13	72	65	323	318E	375	325E	229	386	529	251	373	378
14	68	65	325	315E	375	329	226	386	549	210	372	377
15	66	65	335	312E	376	340	226	392	554	218	368	399
16	67	65	339	310E	383	367	224	386	534	288	363	428
17	70	65	339	308	386	393	222	384	551	369	351	434
18	65	65	341	335	385	431	221	383	585	354	341	449
19	64	66	352	357	384	449	219	385	557	354	339	483
20	65	67	357	363	384	454	215	429	551	341	347	509
21	67	66	359	362	389	442	216	436	451	330	421	511
22	67	66	352	340	399	449	220	436	313	335	434	442
23	61	67	344	336	397	463	217	444	237	343	434	376
24	73	66	340	342	395	358	217	478	420	351	433	353
25	73	66	341	342	392	273	305	488	588	356	413	351
26	67	213	342	354	384	275	357	484	613	365	391	346
27	62	307	335	361	381	270	347	488	609	370	385	344
28	63	308	330	366	381	265	344	489	603	372	384	341
29	67	308	334	367	-----	266	358	443	539	354	364	338
30	68	302	331	357	-----	265	363	397	434	360	347	335
31	69	-----	335	358	-----	268	-----	390	-----	366	341	-----
TOTAL	2,477	3,084	10,044	10,540	10,507	10,611	7,749	12,295	14,415	10,645	12,149	11,407
MEAN	79.9	103	324	340	375	342	258	397	481	343	392	380
MAX	257	308	359	367	399	463	363	489	642	454	446	511
MIN	35	63	274	308	357	265	215	330	237	210	339	335
AC-FT	4,910	6,120	19,920	20,910	20,840	21,050	15,370	24,390	28,590	21,110	24,100	22,630
CAL YEAR 1997 TOTAL		99,185	MEAN	272	MAX	467	MIN	35	AC-FT	196,700		
WTR YEAR 1998 TOTAL		115,923	MEAN	318	MAX	642	MIN	35	AC-FT	229,900		

E indicates estimated discharge.

PLATTE RIVER BASIN (LOUP RIVER)

BURWELL-SUMTER CANAL from North Loup River, 00108000 - 1998

LOCATION.--NE1/4NW1/4 Sec. 19-21-15 W. near Burwell

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1939 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	31	56	104	82
2								0	30	68	105	81
3								0	31	75	96	79
4								0	29	70	95	78
5								0	29	72	96	78
6								50	29	81	99	78
7								67	28	88	94	77
8								28	34	87	96	74
9								0	32	87	97	67
10								0	28	96	83	58
11								0	28	103	59	47
12								0	30	109	59	41
13								40	30	110	59	42
14								52	31	111	62	43
15								43	28	113	62	42
16								36	26	109	62	37
17								37	29	102	68	40
18								35	25	103	84	40
19								35	24	102	105	41
20								33	25	101	115	43
21								31	24	101	110	33
22								31	24	103	99	0
23								33	27	106	93	0
24								37	29	107	93	0
25								33	29	106	96	0
26								32	28	105	95	0
27								31	28	103	84	0
28								26	28	103	82	0
29					-----			.64	27	103	82	0
30					-----			16	31	105	83	0
31		-----			-----		-----	31	-----	106	82	-----
TOTAL								777.64	852	2,991	2,689	1,201
MEAN								25.1	28.4	96.5	86.7	40.0
MAX								87	34	113	115	82
MIN								0	24	56	59	0
AC-FT								1,540	1,690	5,930	5,330	2,380
CAL YEAR 1997	MAX	115	MIN	0	AC-FT	16,260						
WTR YEAR 1998	MAX	115	MIN	0	AC-FT	16,880						

PLATTE RIVER BASIN (LOUP RIVER)

NORTH LOUP RIVER at Ord, 06788500 - 1998

LOCATION.--SW1/4NW1/4 Sec. 22-19-14 W., Valley County, Lat. 41° 36' 27", Long. 98° 55' 17", on right bank 150 feet downstream from bridge on State Highway 70 at Ord.

DRAINAGE AREA.--3,760 square miles, of which 702 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,012.14 feet above sea level.

PERIOD OF RECORD.--Nov. 1936 - Sep. 1938, (published as "near Ord"), June 1952 - present

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 10,100 cubic feet per second June 2, 1962, gage height 5.52 feet; maximum gage height 6.74 feet February 11, 1993 due to backwater from ice; minimum daily discharge 100 cubic feet per second January 3, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,800 cubic feet per second March 27, gage height 3.18 feet; maximum gage height 4.15 feet January 16 due to backwater from ice; minimum daily discharge 455 cubic feet per second November 17.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,090	929	1,090	1,150	913	1,040	1,390	633	721	900E	793	735
2	929	888	973	1,250	908	945	1,420	623	589	800E	970	779
3	901	771	1,000	1,170	933	1,010	1,410	669	578	850E	986	819
4	854	723	1,030	1,100	963	1,190	1,270	631	603	1,150E	1,010	824
5	752	678	988	1,040	1,090	1,220	1,230	532	527	1,300E	1,170	791
6	703	708	893	1,080	1,150	1,200	1,170	472	534	1,200E	1,180	784
7	667	702	868	1,070	1,160	1,190	1,270	550	607	1,000E	1,130	784
8	754	661	998	1,160	1,120	1,070	1,260	544	839	940E	1,030	779
9	792	641	1,070	975	1,100	1,010	1,110	630	1,400E	850E	945	780
10	769	642	1,100	657	1,150	1,040	1,060	664	1,350E	800E	1,410	769
11	752	624	1,190	705	1,280	1,320	1,070	810	1,300E	720E	1,220	781
12	921	590	1,200	742	1,280	1,090	1,070	868	1,150E	700E	1,030	826
13	1,140	617	1,220	700E	1,160	1,170	1,060	912	1,100E	650E	1,180	860
14	1,010	600E	1,130	740E	1,110	1,290	1,010	854	1,400E	550E	1,180	950
15	856	590E	1,210	800E	1,140	1,390	984	826	1,500E	480E	1,230	1,020
16	800	500E	1,240	960E	1,230	1,440	1,160	962	1,450E	499	1,140	1,080
17	807	455	1,050	860E	1,410	1,450	1,010	895	1,500E	622	1,070	1,100
18	794	673	1,110	940E	1,370	1,450	835	843	1,430	596	929	1,060
19	792	760	1,150	1,020E	1,330	1,450	814	771	1,400E	601	818	1,100
20	804	707	1,110	1,000E	1,240	1,480	787	878	1,400E	569	781	1,090
21	787	862	1,180	960E	1,280	1,590	702	1,050	1,300E	518	1,110	1,170
22	740	884	1,270	940E	1,310	1,640	690	1,080	1,200E	557	1,290	1,280
23	682	799	1,210	880E	1,280	1,660	644	1,050	1,250E	588	1,210	1,070
24	720	757	1,220	950E	1,360	1,630	642	1,430	1,200E	650	1,160	995
25	1,010	798	1,270	1,020E	1,400	1,550	794	1,250	1,250E	767	1,090	1,060
26	816	857	1,210	1,080E	1,340	1,540	971	1,310	1,400E	810	988	1,070
27	776	1,100	1,310	1,180E	1,290	1,650	790	1,240	1,400E	821	975	1,060
28	877	1,020	1,140	1,240E	1,240	1,580	686	1,150	1,400E	743	890	1,090
29	980	1,090	1,050	1,320	-----	1,520	661	1,120	1,300E	681	858	1,090
30	960	1,070	1,060	1,240	-----	1,510	612	897	1,160	635	805	1,050
31	954	-----	1,130	950	-----	1,500	-----	740	-----	727	769	-----
TOTAL	26,189	22,696	34,670	30,879	33,537	41,815	29,582	26,884	34,238	23,274	32,347	28,646
MEAN	845	757	1,118	996	1,198	1,349	986	867	1,141	751	1,043	955
MAX	1,140	1,100	1,310	1,320	1,410	1,660	1,420	1,430	1,500	1,300	1,410	1,280
MIN	667	455	868	657	908	945	612	472	527	480	769	735
AC-FT	51,950	45,020	68,770	61,250	66,520	82,940	58,680	53,320	67,910	46,160	64,160	56,820
CAL YEAR 1997 TOTAL		356,152	MEAN	976	MAX	2,880	MIN	455	AC-FT	706,400		
WTR YEAR 1998 TOTAL		364,757	MEAN	999	MAX	1,660	MIN	455	AC-FT	723,500		

E indicates estimated discharge.

PLATTE RIVER BASIN (LOUP RIVER)

ORD-NORTH LOUP CANAL from North Loup River, 00109000 - 1998

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1939 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	29	37	80	85
2								0	28	46	80	86
3								0	29	52	63	82
4								0	28	52	57	75
5								0	25	52	55	74
6								0	26	54	52	74
7								0	25	61	53	74
8								0	25	71	56	71
9								0	26	81	58	65
10								0	26	103	60	63
11								0	26	106	60	50
12								0	27	110	62	47
13								45	27	107	62	46
14								38	27	114	60	43
15								19	25	115	55	37
16								19	27	116	55	35
17								18	27	119	76	31
18								20	29	125	103	31
19								20	26	123	115	30
20								20	27	122	116	29
21								22	27	118	117	17
22								21	25	99	110	0
23								20	25	76	108	0
24								20	25	71	108	0
25								21	26	75	108	0
26								22	27	76	96	0
27								28	26	75	88	0
28								27	24	75	86	0
29					-----			29	25	73	87	0
30					-----			28	34	76	83	0
31		-----			-----		-----	29	-----	80	84	-----
TOTAL								466	799	2,660	2,453	1,145
MEAN								15.0	26.6	85.8	79.1	38.2
MAX								45	34	125	117	86
MIN								0	24	37	52	0
AC-FT								924	1,580	5,280	4,870	2,270
CAL YEAR 1997	MAX	117	MIN	0	AC-FT	13,430						
WTR YEAR 1998	MAX	125	MIN	0	AC-FT	14,920						

PLATTE RIVER BASIN (LOUP RIVER)

MIRA CREEK near North Loup, 06788898 - 1998

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. Records are fair.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 3,460 cubic feet per second August 5, 1981, gage height 10.56 feet, based on indirect measurement; no flow at times in 1980-81.

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,710 cubic feet per second July 22, gage height 7.97 feet; minimum daily discharge 1.60 cubic feet per second October 11, January 8, 9, 26.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	5.3	2.8	1.8	2.4	5.5	9.7	6.0	5.5	5.5	7.2	5.8
2	4.5	5.1	2.8	1.9	2.5	4.2	9.4	5.2	5.3	5.4	9.3	5.9
3	4.4	4.6	2.8	1.9	2.5	4.0	7.8	4.7	6.4	5.7	19	5.8
4	4.0	3.5	2.8	1.9	2.5	3.9	7.2	4.1	6.7	5.5	11	5.7
5	3.1	3.2	2.8	1.9	2.3	3.4	6.4	3.8	6.3	5.8	7.5	6.1
6	2.6	3.1	2.8	1.9	2.1	3.2	5.8	3.6	5.8	6.3	6.5	6.4
7	2.4	2.8	2.8	1.7	2.2	2.9	9.4	3.9	5.9	6.3	6.2	5.9
8	2.1	2.6	2.8	1.6	2.4	3.3	25	3.7	9.5	6.0	5.9	5.3
9	1.8	2.6	2.8	1.6	2.6	3.8	12	3.9	14	5.8	5.3	5.3
10	1.7	2.6	2.8	2.5	2.8	3.1	9.4	4.3	6.1	6.0	5.1	5.1
11	1.6	2.6	2.7	2.0	2.8	2.9	8.8	5.3	7.0	6.1	5.1	5.4
12	2.3	2.6	2.4	2.1	2.6	3.2	8.5	4.8	13	6.6	5.1	5.3
13	5.1	2.6	2.3	2.7	3.7	3.3	8.0	4.6	16	6.3	5.0	5.1
14	5.1	2.8	2.2	1.8	3.6	3.6	8.3	4.5	18	6.4	5.4	4.9
15	4.1	2.7	2.4	2.3	3.4	3.4	23	5.2	50	6.6	5.5	4.7
16	3.1	2.4	2.6	1.9	3.2	3.4	11	5.0	30	6.7	5.2	4.6
17	2.6	2.6	2.6	1.9	3.2	3.5	8.8	4.3	18	6.4	5.6	4.6
18	2.5	2.5	2.6	1.9	3.3	4.1	10	3.9	186	6.0	5.9	4.6
19	2.3	2.6	2.5	1.9	3.4	4.0	7.5	3.5	82	5.5	7.1	4.5
20	2.2	2.6	2.5	1.9	3.4	3.5	7.0	5.9	37	5.7	7.0	4.5
21	2.3	2.6	2.5	2.4	3.3	3.7	6.6	9.2	19	10	8.5	4.5
22	2.2	2.6	2.6	2.5	3.4	4.2	6.3	89	12	760	8.4	4.1
23	2.2	2.5	2.5	2.5	3.2	4.5	5.6	84	12	260	6.5	3.3
24	2.2	2.5	2.3	2.6	3.4	4.2	5.3	36	11	69	5.9	2.9
25	3.3	2.4	2.3	1.9	3.4	4.2	5.9	19	7.7	31	5.7	2.8
26	3.5	2.6	2.3	1.6	3.7	4.7	7.8	12	6.6	22	5.7	2.8
27	3.9	2.6	2.2	1.8	4.2	85	7.0	9.2	6.5	17	6.0	2.4
28	3.7	2.7	2.2	1.8	4.8	35	6.8	7.5	6.3	13	6.1	2.0
29	4.4	2.8	2.2	2.1	-----	10	6.3	6.5	6.0	11	6.4	2.0
30	4.9	2.8	2.0	2.2	-----	9.0	6.3	6.0	5.8	10	6.2	2.0
31	5.2	-----	1.8	2.3	-----	8.8	-----	6.0	-----	8.8	6.0	-----
TOTAL	100.0	87.5	77.7	62.8	86.3	245.5	266.9	374.8	623.4	1,332.4	211.3	134.3
MEAN	3.23	2.92	2.51	2.03	3.08	7.92	8.90	12.1	20.8	43.0	6.82	4.48
MAX	5.2	5.3	2.8	2.7	4.8	85	25	89	186	760	19	6.4
MIN	1.6	2.4	1.8	1.6	2.1	2.9	5.3	3.5	5.3	5.4	5.0	2.0
AC-FT	198	174	154	125	171	487	529	743	1,240	2,640	419	266
CAL YEAR 1997 TOTAL		1,747.4	MEAN	4.79	MAX	17	MIN	1.6	AC-FT	3,470		
WTR YEAR 1998 TOTAL		3,602.9	MEAN	9.87	MAX	760	MIN	1.6	AC-FT	7,150		

PLATTE RIVER BASIN (LOUP RIVER)

CEDAR RIVER near Spalding, 06791500 - 1998

LOCATION.--NE1/4NE1/4 Sec. 15-20-10 W., Greeley County, Lat. 41° 42' 41", Long. 98° 26' 48", on left bank 15 feet downstream from county road bridge, 0.4 miles upstream from small tributary and 4.7 miles northwest of Spalding.

DRAINAGE AREA.--762 square miles, approximately 50 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 1,896.24 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--Oct. 1944 - Sep. 1953, Oct. 1957 - present

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 4,000 cubic feet per second on June 23, 1947, gage height 7.50 feet; minimum daily discharge 30 cubic feet per second January 30, 1946.

EXTREMES FOR CURRENT YEAR.--Peak discharge 738 cubic feet per second on June 18, gage height 4.61 feet; minimum daily discharge 136 cubic feet per second September 11.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	223	165	173	175	170	279	281	175	165	148	149
2	154	214	165	175	175	169	250	238	168	167	158	147
3	156	195	166	173	176	179	238	212	179	190	162	144
4	152	188	166	165E	175	175	299	198	185	193	165	144
5	152	194	163	174	173	174	350	190	185	228	168	144
6	153	191	160	179	174	173	383	180	186	318	166	143
7	153	183	168	176	172	177	369	173	184	431	165	141
8	153	177	166	173	173	181	364	137	220	544	164	142
9	157	177	166	172	174	170E	347	163	246	576	157	141
10	160	171	165	163	177	150E	350	173	285	485	153	137
11	162	170	166	160E	178	175E	363	181	372	396	151	136
12	180	170	171	160E	179	160E	326	204	387	323	153	137
13	222	175	167	165E	182	190E	273	195	431	265	149	138
14	249	172	167	165E	179	224	241	183	434	195	149	138
15	211	171	165	165E	182	205	321	177	379	211	149	138
16	195	169	165	165E	191	196	328	183	306	197	148	140
17	192	172	164	160E	195	195	287	189	270	183	145	143
18	185	176	163	170E	198	199	265	184	556	179	143	144
19	178	175	164	192	198	202	241	179	389	167	143	143
20	172	172	166	172	196	200	221	187	320	157	145	144
21	166	169	167	171	193	203	205	204	275	153	162	147
22	165	167	169	168	193	212	196	284	234	151	158	147
23	167	168	169	168	191	224	193	255	236	155	157	145
24	169	170	169	178	187	242	190	242	228	151	156	146
25	191	170	168	169	187	247	187	235	215	151	153	149
26	196	170	169	171	181	247	202	227	204	152	155	157
27	190	170	169	172	178	289	253	228	193	152	155	149
28	190	171	170	174	176	272	347	201	186	151	154	143
29	201	170	169	172	-----	270	403	199	186	147	153	143
30	214	168	171	175	-----	307	354	189	164	146	153	143
31	222	-----	170	175	-----	317	-----	183	-----	146	152	-----
TOTAL	5,560	5,328	5,168	5,290	5,108	6,494	8,625	6,254	7,978	7,225	4,789	4,302
MEAN	179	178	167	171	182	209	288	202	266	233	154	143
MAX	249	223	171	192	198	317	403	284	556	576	168	157
MIN	152	167	160	160	172	150	187	137	164	146	143	136
AC-FT	11,030	10,570	10,250	10,490	10,130	12,880	17,110	12,400	15,820	14,330	9,500	8,530
CAL YEAR 1997 TOTAL		66,101	MEAN	181	MAX	452	MIN	125	AC-FT	131,100		
WTR YEAR 1998 TOTAL		72,121	MEAN	198	MAX	576	MIN	136	AC-FT	143,100		

E indicates estimated discharge.

PLATTE RIVER BASIN (LOUP RIVER)

CEDAR RIVER near Fullerton, 06792000 - 1998

LOCATION.--SE1/4SE1/4 Sec. 33-17-6 W., Nance County, Lat. 41° 23' 45", Long. 98° 00' 15", on left upstream bank near county bridge, 3 miles northwest of Fullerton and 7.4 miles upstream from mouth.

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 3,400 cubic feet per second June 18, gage height 4.80 feet; minimum daily discharge 131 cubic feet per second March 10.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	313	207	278	240E	281	516	589	264	199	187	248
2	206	313	209	280	250E	274	498	486	249	214	199	246
3	207	294	198	282	270E	275	489	365	261	209	225	223
4	208	266	197	271	280E	296	375	323	270	257	280	219
5	208	245	190E	267	290E	296	375	302	298	286	262	221
6	208	246	190E	260E	311	297	555	274	269	289	260	211
7	211	240	210E	245E	293	300	723	271	259	371	248	206
8	211	235	210E	230E	280	308	632	256	431	469	249	201
9	214	225	215E	210E	268	234	499	206	607	898	250	224
10	217	220	210E	190E	269	161	425	231	624	523	238	222
11	219	212	220E	180E	262	252	490	223	500	561	217	218
12	291	210	240E	180E	257	235	485	255	707	444	207	211
13	387	217	250E	185E	258	315	593	268	718	393	211	195
14	336	208	250E	190E	262	386	553	294	1,080	338	201	201
15	357	202	260E	191E	262	390	543	285	908	275	196	217
16	309	195	250E	195E	265	331	559	263	795	220	186	182
17	279	225	245E	190E	271	299	551	257	607	232	185	171
18	271	240E	245E	190E	270	301	540	259	1,740	216	198	176
19	267	230E	240	195E	280	295	484	263	831	212	188	176
20	257	235	236	190E	279	284	445	311	708	208	174	176
21	250	231	237	185E	278	289	349	305	612	204	415	184
22	243	237	241	185E	277	326	390	350	499	693	336	220
23	241	228	248	190E	279	374	360	414	459	355	204	192
24	245	231	250	190E	284	396	259	445	428	160	202	218
25	305	228	252	195E	284	426	281	392	389	152	222	224
26	325	227	256	200E	287	447	290	350	359	168	221	229
27	298	220	263	205E	291	489	293	350	344	165	210	234
28	287	226	270	205E	286	597	357	373	317	194	233	223
29	297	213	267	210E	-----	542	483	306	313	195	240	245
30	298	214	278	215E	-----	498	599	276	264	193	272	236
31	309	-----	271	225E	-----	544	-----	267	-----	191	229	-----
TOTAL	8,166	7,026	7,305	6,604	7,683	10,738	13,991	9,809	16,110	9,484	7,145	6,351
MEAN	263	234	236	213	274	346	466	316	537	306	230	212
MAX	387	313	278	282	311	597	723	589	1,740	898	415	248
MIN	205	195	190	180	240	161	259	206	249	152	174	171
AC-FT	16,200	13,940	14,490	13,100	15,240	21,300	27,750	19,460	31,950	18,810	14,170	12,600
CAL YEAR 1997 TOTAL		97,982	MEAN	268	MAX	2,560	MIN	112	AC-FT	194,300		
WTR YEAR 1998 TOTAL		110,412	MEAN	302	MAX	1,740	MIN	152	AC-FT	219,000		

E indicates estimated discharge.

PLATTE RIVER BASIN (LOUP RIVER)

BEAVER CREEK at Loretto, 06793500 - 1998

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

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 2,790 cubic feet per second June 18, gage height 10.59 feet; minimum daily discharge 40 cubic feet per second August 19, 20.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	91	61	66	83	71	201	100	81	140E	49	47
2	52	83	61	72	82	69	225	92	74	130E	73	45
3	52	78	60	72	80	67	209	88	71	200E	67	45
4	50	76	59	64	77	73	187	83	81	170E	65	45
5	49	72	50E	67	75	71	158	76	84	300E	63	46
6	50	70	46E	75	73	70	139	73	88	500E	61	46
7	51	68	50E	74	74	72	170	71	91	337	61	46
8	51	65	64	71	74	65	365	69	130	273	62	44
9	52	64	62	63	75	59	495	70	222	308	58	45
10	53	64	62	52E	78	50E	415	68E	251	211	52	45E
11	55	63	60	42E	80	46E	297	72E	246	178	49	44E
12	63	63	54	46E	80	80E	193	70E	219	157	47	44E
13	122	62	62	42E	80	86E	146	84E	171	138	48	46E
14	101	60E	68	46E	82	88	151	80E	194	122	50	50E
15	84	54E	65	50E	83	94	310	82E	132	102	49	46E
16	73	50E	64	54E	90	88	399	76E	232	85	48	46E
17	70	54E	65	54E	93	87	364	78E	384	73	46	50E
18	68	56E	65	56E	90	92	285	76E	1,460	72	43	50E
19	66	60E	66	56E	87	92	227	70E	603	62	40	48E
20	62	63	68	54E	84	93	176	66E	484	58	40	50E
21	61	65	69	54E	84	115	153	66E	500E	58	88	48E
22	63	64	69	56E	85	164	139	100E	400E	54	109	44E
23	61	64	69	54E	85	186	127	150E	350E	54	64	50E
24	61	64	68	52E	83	186	121	190E	300E	55	55	54E
25	85	65	68	46E	84	205	113	184	270E	56	53	54E
26	100	65	68	81	83	182	113	174	250E	58	48	56E
27	88	67	70	81	79	234	116	160	275E	57	45	58E
28	84	63	68	85	74	379	116	141	250E	52	45	60E
29	106	61	69	83	-----	304	112	121	175E	50	45	55E
30	108	61	66	83	-----	226	108	103	150E	48	45	48E
31	99	-----	68	83	-----	194	-----	87	-----	48	46	-----
TOTAL	2,193	1,955	1,964	1,934	2,277	3,888	6,330	3,020	8,218	4,206	1,714	1,455
MEAN	70.7	65.2	63.4	62.4	81.3	125	211	97.4	274	136	55.3	48.5
MAX	122	91	70	85	93	379	495	190	1,460	500	109	60
MIN	49	50	46	42	73	46	108	66	71	48	40	44
AC-FT	4,350	3,880	3,900	3,840	4,520	7,710	12,560	5,990	16,300	8,340	3,400	2,890
CAL YEAR 1997 TOTAL		26,969	MEAN	73.9	MAX	291	MIN	30	AC-FT	53,490		
WTR YEAR 1998 TOTAL		39,154	MEAN	107	MAX	1,460	MIN	40	AC-FT	77,660		

E indicates estimated discharge.

PLATTE RIVER BASIN (ELKHORN RIVER)

ELKHORN RIVER near Atkinson, 06796973 - 1998

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

PERIOD OF RECORD.--1982 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,030 cubic feet per second April 4, gage height 7.07 feet; minimum daily discharge 19 cubic feet per second September 7-12.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	40	41	41E	44	42E	121	186	79	226	31	23
2	24	39	40	41E	46	43E	198	149	69	199	37	23
3	23	37	42	37E	45	40E	604	124	57	195	44	22
4	22	37	42	35E	44	41E	953	107	54	188	64	21
5	22	37	40E	36E	47	45E	919	92	57	176	79	20
6	22	37	39E	37E	46	42E	785	83	58	156	84	20
7	22	39	44E	36E	45	41E	607	71	56	147	86	19
8	22	39	46E	35E	45	38E	575	64	83	138	79	19
9	25	39	44E	29E	46	39E	655	64	347	130	69	19
10	23	38E	41E	26E	50	35E	569	69	670	109	60	19
11	23	37E	39E	24E	50	33E	448	77	679	98	53	19
12	32	37E	40E	22E	54	37E	360	88	569	87	52	19
13	40	38E	42E	23E	52	35E	296	91	473	78	59	20
14	35	36E	45E	26E	53	34E	246	86	484	70	60	34
15	33	35E	47	31E	55	36E	366	81	634	63	57	35
16	31	34E	44	30E	60	43E	563	102	699	56	47	31
17	31	33E	44	29E	65	46E	529	120	637	50	43	29
18	31	40E	45	31E	68	50E	447	114	610	47	39	28
19	31	42	45	30E	68	54	385	96	583	43	34	26
20	29	40	44	32E	69	61	347	93	494	39	33	25
21	29	40	45	35E	71	84	302	93	398	35	33	25
22	31	39	43	34E	73	120	261	119	349	33	33	26
23	32	41	40E	36E	71	165	223	155	336	31	32	26
24	31	42	39E	39E	69	182	190	171	396	33	31	27
25	29E	43	37E	38E	70	214	198	166	416	32	28	28
26	27E	42	38E	38E	65	228	436	154	402	35	27	28
27	29E	42	39E	39E	57	242	488	141	379	37	27	27
28	32E	42	39E	41E	44E	253	378	126	347	33	27	27
29	35E	41	40E	44E	-----	233	292	108	309	30	26	27
30	39	41	39E	46	-----	207	228	96	266	30	25	26
31	39	-----	40E	42	-----	195	-----	90	-----	31	25	-----
TOTAL	898	1,167	1,293	1,063	1,572	2,958	12,969	3,376	10,990	2,655	1,424	738
MEAN	29.0	38.9	41.7	34.3	56.1	95.4	432	109	366	85.6	45.9	24.6
MAX	40	43	47	46	73	253	953	186	699	226	86	35
MIN	22	33	37	22	44	33	121	64	54	30	25	19
AC-FT	1,780	2,310	2,560	2,110	3,120	5,870	25,720	6,700	21,800	5,270	2,820	1,460
CAL YEAR 1997 TOTAL		36,587	MEAN	100	MAX	638	MIN	17	AC-FT	72,570		
WTR YEAR 1998 TOTAL		41,103	MEAN	113	MAX	953	MIN	19	AC-FT	81,530		

E indicates estimated discharge.

PLATTE RIVER BASIN (ELKHORN RIVER)

SOUTH FORK ELKHORN RIVER near Ewing, 06798000 - 1998

LOCATION.--SE1/4NE1/4 Sec. 7-26-9 W., Holt County, Lat. 42° 14' 29", Long. 98° 23' 53", on right bank 7 feet downstream and 80 feet shoreward from bridge on county highway, 2.9 miles southwest of intersection with U.S. Highway 275 in Ewing and 5.5 miles upstream from the mouth.

DRAINAGE AREA.--314 square miles, of which approximately 190 square miles contributes directly to surface runoff.

GAGE.--Continuous Stage Recorder. Elevation of the gage is approximately 1,880 feet from topographic map.

PERIOD OF RECORD.--Oct. 1977 - present

REMARKS.--Published by U. S. Geological Survey up to October 1, 1991. See USGS reports for period of record before 1977. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 5,640 cubic feet per second March 18, 1987, gage height 7.59 feet; minimum daily discharge 11 cubic feet per second January 15, 1953.

EXTREMES FOR CURRENT YEAR.--Peak discharge 374 cubic feet per second on April 10, gage height 2.26 feet; minimum daily discharge 30 cubic feet per second September 3.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	51	45E	61	50	70E	156	129	56	57	45	32
2	37	49	45E	60	52E	66E	185	106	50	56	55	31
3	38	50	48E	56E	50E	60E	292	100	55	60	57	30
4	42	53	46E	52E	48E	53E	289	87	56	75	53	31
5	39	54	45E	48E	46E	56E	241	87	61	68	50	31
6	37	53	44E	48E	44E	54E	181	79	61	66	51	31
7	38	50	45E	50E	46E	50E	159	69	71	73	51	31
8	43	48	45E	52E	48E	46E	187	69	101	72	45	32
9	52	47	45E	50E	48	48E	332	67	151	68	44	33
10	50	46E	48E	48E	52	46E	354	66	253	60	44	32
11	45	47E	44E	46E	51	44E	266	71	349	58	42E	32
12	47	46E	46E	44E	54	45E	191	81	349	55	42E	32
13	85	44E	45E	42E	56	60E	136	79	260	57	40E	31
14	68	43E	47E	42E	56	70E	121	78	224	60	43	32
15	57	40E	49	46E	58	80E	229	77	216	54	41	36
16	55	42E	48	48E	61	90E	330	78	194	51	41	36
17	51	45E	49	52E	61	100E	289	76	176	50	39	35
18	49	46E	49	50E	68	108	190	72	182	49	38	35
19	46	47	47E	52E	73	107	138	66	158	47	35	34
20	46	45	45E	50E	74	111	132	79	131	45	36	34
21	46	47	44E	50E	72	128	119	87	104	43	42	34
22	47	48	43E	52E	70	151	109	118	89	45	37	35
23	49	45	42E	54E	72	160	99	105	86	45	36	34
24	47	41	42E	50E	75	149	91	100	90	45	38	34
25	55	41	41E	46E	78	134	103	97	87	46	36	35
26	58	40	43E	48E	78	134	125	91	83	46	36	33
27	53	42	43E	50E	76E	140	241	81	77	45	37	33
28	52	46	41E	52E	74E	170	332	69	74	45	35	33
29	51	50	42E	52	-----	219	242	65	66	45	34	33
30	48	46E	43E	52	-----	176	164	61	63	47	34	34
31	51	-----	44E	51	-----	163	-----	59	-----	48	33	-----
TOTAL	1,523	1,392	1,393	1,554	1,691	3,088	6,023	2,549	3,973	1,681	1,290	989
MEAN	49.1	46.4	44.9	50.1	60.4	99.6	201	82.2	132	54.2	41.6	33.0
MAX	85	54	49	61	78	219	354	129	349	75	57	36
MIN	37	40	41	42	44	44	91	59	50	43	33	30
AC-FT	3,020	2,760	2,760	3,080	3,350	6,130	11,950	5,060	7,880	3,330	2,560	1,960
CAL YEAR 1997 TOTAL		23,380	MEAN	64.1	MAX	388	MIN	30	AC-FT	46,370		
WTR YEAR 1998 TOTAL		27,146	MEAN	74.4	MAX	354	MIN	30	AC-FT	53,840		

E indicates estimated discharge.

**PLATTE RIVER BASIN
(ELKHORN RIVER)**

ELKHORN RIVER at Neligh, 06798500 - 1998

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. Records are good, except estimated records are poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 2,820 cubic feet per second April 9, gage height 6.49 feet; minimum daily discharge 95 cubic feet per second September 12, 13.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	305	237	250E	310E	258	1,560	831	378	787	148	143
2	145	298	234	260	300E	213	1,680	670	348	654	187	140
3	145	271	231	250E	299E	211	1,970	528	349	639	291	135
4	143	254	219	129	290E	225E	2,090	478	339	770	283	127
5	138	247	169	131	280E	240E	2,120	463	351	765	287	125
6	136	243	114	206	270E	256E	2,140	446	365	689	281	118
7	137	240	170	240	290E	250E	2,060	436	410	649	296	112
8	144	239	210	250E	300E	240E	2,370	410	553	592	285	110
9	143	230E	224	221	340	240E	2,610	388	1,040	575	270E	108
10	142	210E	224	192	338	210E	2,610	376	1,760	505	250E	104
11	146	200E	223	185E	340E	250E	2,180	388	1,910	460	240E	99
12	195	190E	207	185E	330E	262E	1,800	465	2,090	414	225E	95
13	322	180E	242	190E	340E	250E	1,460	507	2,170	378	210E	95
14	313	170E	277	200E	347	250E	1,150	510	2,220	352	200E	97
15	304	160E	279	210E	353	260E	1,690	489	2,330	319	190E	105
16	277	160E	280	230E	378	280E	2,230	486	2,470	293	180E	124
17	248	170E	288	230E	401	300E	2,010	460	2,430	274	170E	137
18	228	200E	299	240E	398	350E	1,690	466	2,620	251	160E	135
19	221	250E	285	250E	408	400E	1,440	457	2,440	236	155E	130
20	202	277	281	260E	408	450E	1,200	470	2,120	231	150E	132
21	187	250	266	280E	401	725	977	506	1,860	204	220E	130
22	181	236	276	280E	390	1,020	802	719	1,580	192	210E	134
23	181	239	252	280E	384	1,300	686	876	1,390	174	200E	135
24	187	228	235E	270E	377	1,340	1,200E	817	1,390	172	190E	136
25	268	226	225E	260E	379	1,520	1,150E	786	1,380	165	182	135
26	267	227	220E	260E	381	1,580	2,000E	721	1,340	163	170	135
27	245	228	215E	280E	362	1,640	1,850E	650	1,350	163	174	130
28	248	232	225E	290E	314	2,260	1,760	571	1,300	155	182	124
29	262	234	220E	300E	-----	2,190	1,510	491	1,180	155	170	121
30	277	236	235E	310E	-----	1,990	1,110	443	993	155	160	120
31	293	-----	230E	320E	-----	1,710	-----	410	-----	148	145	-----
TOTAL	6,470	6,830	7,292	7,439	9,708	22,670	51,105	16,714	42,456	11,679	6,461	3,671
MEAN	209	228	235	240	347	731	1,704	539	1,415	377	208	122
MAX	322	305	299	320	408	2,260	2,610	876	2,620	787	296	143
MIN	136	160	114	129	270	210	686	376	339	148	145	95
AC-FT	12,830	13,550	14,460	14,760	19,260	44,970	101,400	33,150	84,210	23,170	12,820	7,280
CAL YEAR 1997 TOTAL		142,320	MEAN	390	MAX	1,490	MIN	110	AC-FT	282,300		
WTR YEAR 1998 TOTAL		192,495	MEAN	527	MAX	2,620	MIN	95	AC-FT	381,800		

E indicates estimated discharge.

PLATTE RIVER BASIN (ELKHORN RIVER)

WILLOW CREEK near Foster, 06799080 - 1998

LOCATION.--NW1/4NE1/4 Section 4-25-3 W., Pierce County, Lat. 42° 10' 38", Long. 97° 40' 02", on left downstream bank at county road bridge, 6.8 miles south of Foster and 7.2 miles southwest of Pierce.

DRAINAGE AREA.--137 square miles.

GAGE.--Continuous stage recorder. Gage elevation approximately 1,650 feet above mean sea level, from topographic map.

PERIOD OF RECORD.--1975 - present

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 574 cubic feet per second March 18, 1987, gage height 7.94 feet; maximum stage 8.40 feet August 24, 1995; minimum daily discharge 1.0 cubic feet per second November 4, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharge 230 cubic feet per second April 9, gage height 7.68 feet; minimum daily discharge 9.9 cubic feet per second September 14, 19.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	21	16	17	16	19E	97	25	14	14	12	11
2	12	20	17	18	16	18E	114	24	14	22	15	10
3	12	18	16	16E	15	18E	116	23	14	26	29	11
4	11	18	13E	16E	14E	19	78	22	14	22	20	11
5	12	18	11E	15E	15	19	57	21	15	19	20	11
6	11	17	10E	15E	15	20	48	20	15	30	18	11
7	11	17	10E	14E	15	20	65	19	16	59	18	10
8	12	17	13E	13E	15	19	151	19	21	40	17	10
9	12	17	11E	13E	16	19E	217	18	24	40	16	11
10	12	17	10E	14E	16	17E	178	18	25	37	16	10
11	13	16	11E	14E	16	18E	92	18	30	31	14	10
12	17	19	10E	15E	16	20E	57	19	42	27	13	10
13	23	16	12E	15E	17	25E	44	19	38	24	13	10
14	18	15E	14E	14E	17	27E	36	18	39	21	13	9.9
15	17	15E	17	14E	17	30E	134	18	46	17	13	10
16	16	17E	17	15E	19	31	165	19	48	15	12	10
17	16	20E	17	15E	20	33	174	18	55	14	11	10
18	16	16	17	16E	21	35	83	17	129	14	11	10
19	15	16	16E	16E	22	33	48	16	105	13	11	9.9
20	15	17	14E	15E	22	32	40	16	89	13	11	10
21	15	17	13E	15E	22	33	34	16	75	12	20	10
22	15	17	13E	16E	22	35	31	19	52	12	16	10
23	15	17	14E	17E	22	57	29	19	39	12	18	10
24	15	16	15E	16E	22	87	26	20	31	12	19	11
25	14E	17	15E	15E	23	109	25	20	25	12	16	11
26	13E	17	14E	16E	23	121	28	21	21	11	15	11
27	18	17	13E	16E	23	128	31	21	19	11	16	11
28	19	17	13E	15E	20E	135	31	19	17	11	14	11
29	21	17	14E	15E	-----	208	29	17	16	13	13	11
30	22	17	14E	15	-----	170	27	16	15	14	12	11
31	22	-----	14E	16	-----	96	-----	15	-----	13	12	-----
TOTAL	472	516	424	472	517	1,651	2,285	590	1,103	631	474	312.8
MEAN	15.2	17.2	13.7	15.2	18.5	53.3	76.2	19.0	36.8	20.4	15.3	10.4
MAX	23	21	17	18	23	208	217	25	129	59	29	11
MIN	11	15	10	13	14	17	25	15	14	11	11	9.9
AC-FT	936	1,020	841	936	1,030	3,270	4,530	1,170	2,190	1,250	940	620
CAL YEAR 1997 TOTAL	9,718.5		MEAN	26.6	MAX	150	MIN	8.4	AC-FT	19,280		
WTR YEAR 1998 TOTAL	9,447.8		MEAN	25.9	MAX	217	MIN	9.9	AC-FT	18,740		

E indicates estimated discharge.

PLATTE RIVER BASIN (ELKHORN RIVER)

WILLOW CREEK RESERVOIR from Willow Creek, 00410300 - 1998

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

DRAINAGE AREA.--210 square miles.

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

PERIOD OF RECORD.--1983 - present

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

DAILY CONTENTS IN ACRE-FEET WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,910	7,150	7,130	7,150	7,100E	7,180	8,260	7,380	7,080	7,230	6,940	6,990
2	6,900	7,130	7,120	7,140	7,110	7,180	8,230	7,360	7,070	7,260	6,970	6,960
3	6,890	7,110	7,130	7,150E	7,110	7,180	8,150	7,320	7,050	7,250	7,000	6,940
4	6,890	7,130	7,100	7,130E	7,110	7,210	8,050	7,280	7,060	7,250	7,030	6,930
5	6,890	7,140	7,080	7,140E	7,110	7,220	7,930	7,270	7,060	7,320	7,040	6,920
6	6,890	7,130	7,090	7,140E	7,100	7,250	8,020	7,220	7,080	7,420	7,060	6,890
7	6,890	7,130	7,110	7,140E	7,110	7,200	8,290	7,220	7,160	7,420	7,070	6,870
8	6,860	7,120	7,110	7,150E	7,110	7,170	8,290E	7,200	7,210	7,420	7,070	6,860
9	6,860	7,110	7,120	7,150E	7,110	7,130	8,470E	7,190	7,230	7,410	7,050	6,860
10	6,880	7,110	7,120	7,110E	7,110	7,150	8,620E	7,200	7,290	7,410	7,050	6,860
11	6,880	7,110	7,100	7,110E	7,110	7,140	8,500E	7,180	7,330	7,350	7,040	6,840
12	6,980	7,110	7,140	7,100E	7,110	7,130	8,290E	7,180	7,370	7,310	7,030	6,840
13	7,000	7,110	7,140	7,090E	7,110	7,140	7,950	7,180	7,420	7,270	6,990	6,830
14	7,040	7,090	7,130	7,060E	7,150	7,150	8,170	7,190	7,460	7,220	6,980	6,820
15	7,040	7,080	7,130	7,080E	7,150	7,150	8,300	7,190	7,480	7,180	6,960	6,810
16	7,040	7,080	7,130	7,100E	7,170	7,160	8,380	7,180	7,600	7,130	6,940	6,800
17	7,060	7,080	7,130	7,100E	7,170	7,180	8,310	7,200	7,920	7,110	6,920	6,810
18	7,050	7,090	7,140	7,090E	7,180	7,190	8,130	7,130	8,010	7,070	6,910	6,790
19	7,030	7,120	7,130	7,090E	7,190	7,200	8,000	7,130	7,970	7,040	6,890	6,780
20	7,040	7,100	7,130	7,080E	7,200	7,240	7,860	7,180	7,940	6,990	6,980	6,760
21	7,020	7,110	7,140	7,080E	7,210	7,310	7,770	7,200	7,830	6,980	6,990	6,760
22	7,030	7,110	7,150	7,080E	7,210	7,400	7,700	7,200	7,780	6,940	6,990	6,760
23	7,030	7,110	7,150	7,080E	7,210	7,570	7,610	7,200	7,700	6,920	6,980	6,770
24	7,030	7,130	7,150	7,080E	7,230	7,780	7,570	7,200	7,610	6,900	6,980	6,810
25	7,040	7,130	7,130	7,080E	7,230	7,930	7,470	7,200	7,540	6,890	6,990	6,800
26	7,060	7,130	7,130	7,080E	7,230	8,070	7,460	7,220	7,460	6,870	7,020	6,810
27	7,080	7,150	7,150	7,040E	7,230	8,200	7,480	7,210	7,400	6,860	7,020	6,800
28	7,090	7,130	7,130	7,050E	7,180	8,260	7,450	7,200	7,350	6,880	7,010	6,810
29	7,120	7,140	7,130	7,060E	-----	8,390	7,440	7,180	7,270	6,880	6,980	6,790
30	7,140	7,130	7,130	7,080E	-----	8,360	7,430	7,140	7,220	6,870	6,980	6,780
31	7,150	-----	7,130	7,100E	-----	8,310	-----	7,130	-----	6,870	6,980	-----
MAX	7,150	7,150	7,150	7,150	7,230	8,390	8,620	7,380	8,010	7,420	7,070	6,990
MIN	6,860	7,080	7,080	7,040	7,100	7,130	7,430	7,130	7,050	6,860	6,890	6,760
CHANGE	262	-25	6.0	-33	84	1,130	-884	-302	96	-356	113	-206
CAL YEAR 1997			MEAN	7,238	MAX	8,960	MIN	6,660				
WTR YEAR 1998			MEAN	7,210	MAX	8,620	MIN	6,760				

E indicates estimated daily contents

PLATTE RIVER BASIN (ELKHORN RIVER)

WILLOW CREEK near Pierce, 00232500 - 1998

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.--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 228 cubic feet per second April 10, gage height 5.47 feet; minimum daily
discharge 2.6 cubic feet per second, October 1.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	24E	19	20	17	32	180	43	24	40	9.0E	10 E
2	3.0	24E	20	20	17	31	162	40	20	37	13 E	7.2E
3	3.9	24E	19	19	18	30	158	37	18	39	11	8.0
4	5.1	24	18	18	17	30	150	36	18	41	12	4.4
5	5.5	23	17	18	17	30	133	34	19	42	15	4.0
6	6.1	21	16	18	16	30	115	32	19	43	15	5.1
7	6.6	20	17	19	16	32	107	30	20	48	15	5.6
8	7.4	19	18	18	16	32	143	28	23	48 E	14	4.9
9	7.4	18	18	19	16	28	180	27	29	48 E	12	4.3
10	7.6	18	19	19	18	26	217	27	32	47 E	13	4.2
11	8.4	17	19	14	19	26E	217	26	37	47 E	13	4.4
12	12	17	18	15	19	25E	178	27	41	44 E	11	4.7
13	17	17	17	14	19	24E	142	26	44	40 E	9.8	5.2
14	18	17	17	15	19	25E	113	26	48	38 E	9.1	5.4
15	19	17	18	14	21	25E	124	28	53	36 E	8.4	5.1
16	19	16	18	14	22	25E	161	28	55	33 E	7.7	4.6
17	19	15	19	15	23	26E	183	27	59	32	8.6	4.4
18	19	15	19	15	25	27E	190	26	91	31	8.6E	4.4
19	19	16	19	15	25	27E	159	26	126	28	8.4E	4.4
20	19	16	19	15	26	30E	129	25	131	21 E	8.0E	4.4
21	19	17	19	15	27	34E	106	25	126	16 E	11 E	4.4
22	19	17	20	15	29	41E	92	30	117	15 E	11 E	4.2
23	19	17	21	15	30	48E	78	32	105	13 E	12 E	4.2
24	19	17	20	15	30	52	68	33	93	12 E	12 E	4.4
25	19 E	18	21	15	31	72	62	31	82	10 E	12 E	4.7
26	20 E	18	20	15	32	95	58	31	73	9.9E	13 E	4.9
27	20 E	18	20	14	32	118	53	33	65	8.8E	14 E	5.1
28	21 E	18	20	13	32	143	50	31	58	7.8E	14 E	5.2
29	22 E	19	20	14	-----	158	48	28	51	9.2E	13 E	5.5
30	22 E	19	20	15	-----	181	46	27	46	9.2E	11 E	5.5
31	23 E	-----	20	16	-----	194	-----	26	-----	9.0E	11 E	-----
TOTAL	447.6	556	585	496	629	1,697	3,802	926	1,723	902.9	355.6	152.8
MEAN	14.4	18.5	18.9	16.0	22.5	54.7	127	29.9	57.4	29.1	11.5	5.09
MAX	23	24	21	20	32	194	217	43	131	48	15	10
MIN	2.6	15	16	13	16	24	46	25	18	7.9	7.7	4.0
AC-FT	888	1,100	1,160	984	1,250	3,370	7,540	1,840	3,420	1,790	705	303
CAL YEAR 1997	TOTAL	13,250.9	MEAN	36.3	MAX	329	MIN	2.5	AC-FT	26,280		
WTR YEAR 1998	TOTAL	12,272.9	MEAN	33.6	MAX	217	MIN	2.6	AC-FT	24,340		

E indicates estimated discharge.

PLATTE RIVER BASIN (ELKHORN RIVER)

UNION CREEK at Madison, 06799230 - 1998

LOCATION.--SW1/4SE1/4 Sec. 32-22-1 W., Madison County, Lat. 41° 49' 52", Long. 97° 27' 19", on left bank 12 feet downstream from bridge on old U.S. highway 81, in Madison.

DRAINAGE AREA.--173.76 square miles

GAGE.--Continuous stage recorder. Datum of gage is 1549.70 feet, National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1978 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 3,580 cubic feet per second August 21, gage height 20.81 feet; minimum daily discharge 12 cubic feet per second August 15.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	23	18	20	25	25	35	21	19	19	14	22
2	15	22	18	21	23	25	31	21	19	21	29	22
3	15	20	18	20	22	27	28	21	25	219	24	22
4	14	20	17	20	22	27	25	22	23	99	21	21
5	14	20	17	20	23	27	25	21	24	93	21	21
6	15	20	17	20	23	26	25	21	23	57	18	21
7	15	20	17	20	23	27	43	21	26	165	18	21
8	15	21	17	20	24	27	128	19	81	68	17	21
9	15	21	18	19	25	27	80	19	154	31	18	20
10	16	22	18	17	25	28	47	20	93	27	17	18
11	16	22	17	18	25	25	36	21	139	24	16	18
12	37	21	17	18	24	25	32	21	161	23	13	18
13	35	22	18	17	25	26	29	20	86	22	14	18
14	28	21	18	18	26	24	33	18	67	20	13	18
15	22	21	19	18	26	24	120	23	145	20	12	18
16	20	21	19	19	28	26	70	22	71	21	30	20
17	19	21	20	19	29	26	41	21	127	19	18	19
18	17	21	20	19	28	26	34	21	284	17	16	20
19	20	19	20	20	27	25	32	18	205	18	14	19
20	21	18	19	20	25	26	30	20	47	17	18	19
21	20	18	19	19	25	30	29	21	36	15	1,930	20
22	20	18	20	19	25	35	27	28	31	16	2,010	19
23	20	18	20	20	26	36	26	25	31	17	476	20
24	19	18	21	20	26	36	25	23	32	16	68	19
25	38	18	21	20	26	48	25	22	30	15	41	20
26	42	18	21	20	25	47	26	22	27	16	33	20
27	29	18	21	21	26	56	26	23	26	17	29	18
28	25	18	21	23	25	108	24	22	25	16	27	17
29	26	18	20	23	-----	55	23	21	25	16	25	17
30	28	18	20	24	-----	37	23	20	22	14	24	16
31	24	-----	19	24	-----	34	-----	20	-----	13	23	-----
TOTAL	675	596	585	616	702	1,041	1,178	658	2,104	1,171	5,047	582
MEAN	21.8	19.9	18.9	19.9	25.1	33.6	39.3	21.2	70.1	37.8	163	19.4
MAX	42	23	21	24	29	108	128	28	284	219	2,010	22
MIN	14	18	17	17	22	24	23	18	19	13	12	16
AC-FT	1,340	1,180	1,160	1,220	1,390	2,060	2,340	1,310	4,170	2,320	10,010	1,150
CAL YEAR 1997 TOTAL		10,366.5	MEAN	28.4	MAX	615	MIN	3.1	AC-FT	20,560		
WTR YEAR 1998 TOTAL		14,955.0	MEAN	41.0	MAX	2,010	MIN	12	AC-FT	29,660		

PLATTE RIVER BASIN (ELKHORN RIVER)

PEBBLE CREEK at Scribner, 06799385 - 1998

LOCATION.--NW1/4SE1/4 Sec. 36-20-6E., Dodge County, Lat. 41° 39' 34", Long 96° 41' 00", on right bank 12 feet downstream from bridge on blacktop county road one mile west and one-quarter mile south of Scribner.

DRAINAGE AREA.--203.52 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,234.72 feet above mean sea level.

PERIOD OF RECORD.--1978 - present

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 27,900 cubic feet per second June 5, 1991, gage height 24.15 feet; minimum daily discharge 0.29 cubic feet per second July 20, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge 16,200 cubic feet per second July 5, gage height 23.19 feet; minimum daily discharge 28 cubic feet per second October 1 & 2.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	45	38	36	71	36	102	74	79	77	72	64
2	28	45	37	37	55	39	79	71	77	75	74	62
3	32	40	37	35	50	35	72	70	175	118	80	60
4	31	39	34	34	45	34	69	68	115	342	76	57
5	31	39	33E	32E	45	33E	69	67	89	6,090	80	56
6	32	39	31E	35E	42	33E	68	64	84	826	75	54
7	30	39	33E	37	41	32E	341	63	90	1,550	80	50
8	30	38	35E	34	42	32E	342	63	817	280	77	49
9	29	38	39	34	49	31E	243	65	900	198	65	46
10	29	37	37	32E	55	31E	161	64	219	165	60	45
11	31	37	36	34E	54	30E	141	65	234	143	58	47
12	37	37	32E	34E	46	29E	132	64	193	129	56	46
13	51	36E	33E	33E	47	33E	119	64	134	117	58	46
14	37	34E	36E	32E	46	38E	107	63	232	105	63	46
15	33	35E	38	31E	45	41E	346	65	175	94	372	44
16	34	37	40	30E	45	40E	189	74	132	87	149	42
17	34	39	38	31E	44	43E	133	66	323	82	91	40
18	33	38	37	32E	45	43E	120	64	454	75	79	39
19	32	38	37	32E	45	45E	114	68	185	70	71	39
20	31	37	37	33E	45	48	107	110	132	65	67	59
21	30	37	36	30E	45	54	98	92	119	71	2,040	45
22	32	38	33E	31E	46	73	93	119	109	858	849	42
23	33	37	30E	32E	47	76	91	95	164	128	144	41
24	34	37	32E	34E	47	67	89	121	1,850	103	132	42
25	113	37	32E	36E	45	87	85	295	217	97	151	43
26	97	37	31E	38E	44	133	79	108	130	92	88	43
27	63	36	32E	49	43	158	78	102	105	88	81	41
28	52	36	33E	99	42	221	76	132	93	84	78	40
29	56	37	34E	194	-----	119	75	100	85	78	72	40
30	53	40	34E	107	-----	94	74	97	80	75	68	39
31	48	-----	31E	98	-----	106	-----	95	-----	76	65	-----
TOTAL	1,264	1,139	1,076	1,416	1,316	1,914	3,892	2,728	7,791	12,438	5,571	1,407
MEAN	40.8	38.0	34.7	45.7	47.0	61.7	130	88.0	260	401	180	46.9
MAX	113	45	40	194	71	221	346	295	1,850	6,090	2,040	64
MIN	28	34	30	30	41	29	68	63	77	65	56	39
AC-FT	2,510	2,260	2,130	2,810	2,610	3,800	7,720	5,410	15,450	24,670	11,050	2,790
CAL YEAR 1997 TOTAL		27,939	MEAN	76.5	MAX	4,020	MIN	13	AC-FT	55,420		
WTR YEAR 1998 TOTAL		41,952	MEAN	115	MAX	6,090	MIN	28	AC-FT	83,210		

E indicates estimated discharge.

PLATTE RIVER BASIN (ELKHORN RIVER)

LOGAN CREEK at Pender, 06799450 - 1998

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

DRAINAGE AREA.--731 square miles.

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

PERIOD OF RECORD.--1965 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 2,230 cubic feet per second June 15, gage height 7.82 feet; minimum daily discharge 104 cubic feet per second estimated March 12.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	139	145	116E	125E	137	409	336	187	448	191	204
2	124	138	144	110E	122E	150	356	316	179	385	202	193
3	121	135	144	110E	125E	135	306	304	176	390E	265	188
4	118	137	139	140E	120E	136	272	293	179	391	345	181
5	116	135	140	155E	143	140	250	274	189	840	356	176
6	118	137	120E	155E	144	139	244	259	188	630	256	174
7	119	136	110E	150E	143	144	314	247	189	1,730	248	171
8	120	137	120E	140E	148	135E	825	235	247	733	250	165
9	121	136	140E	140E	140E	125E	906	231	507	1,280	228	161
10	124	138	130E	145E	140E	116E	555	230	438	1,060	217	158
11	126	137	125E	130E	145	110E	398	230	914	580E	208	156
12	143	138	140E	130E	141	104E	357	251	1,440	420E	203	152
13	197	116E	151	140E	144	120E	339	249	597	394	200	151
14	183	114E	144	145E	149	130E	309	227	455	363	198	147
15	155	110E	145	150E	150	135E	913	244	1,430	329	469	147
16	146	106E	143	145E	154	140E	1,350	426	664	302	362	145
17	141	110E	143	140E	158	150E	594	262	512	280E	317	142
18	139	120E	142	135E	160	160E	464	227	760	271	218	142
19	137	138	142	135E	159	165E	412	216	705	256	206	143
20	133	140	139	130E	157	170E	382	230E	431	225E	204	148
21	133	141	137	135E	155	170E	368	250E	377	221	438	146
22	136	143	130E	135E	155	165E	337	530	348	217	411	141
23	137	142	132	130E	156	170E	317	386	340E	209	264	142
24	145	141	116E	130E	158	165E	310	283	1,000E	204	222	148
25	162	143	120E	140E	159	170E	305	246	753	201	206	152
26	165	141	116E	145E	160	175E	672	230	500E	198	201	163
27	160	142	116E	140E	157	525	557	223	360E	198	203	162
28	153	144	116E	135E	147	813	417	214	352	194	209	157
29	153	143	120E	130E	-----	445	366	203	454	189	202	156
30	150	141	120E	133E	-----	319	346	200E	1,230	203	197	156
31	145	-----	120E	130E	-----	334	-----	197	-----	206	209	-----
TOTAL	4,339	4,018	4,089	4,224	4,114	6,192	13,950	8,249	16,101	13,547	7,905	4,767
MEAN	140	134	132	136	147	200	465	266	537	437	255	159
MAX	197	144	151	155	160	813	1,350	530	1,440	1,730	469	204
MIN	116	106	110	110	120	104	244	197	176	189	191	141
AC-FT	8,610	7,970	8,110	8,380	8,160	12,280	27,670	16,360	31,940	26,870	15,680	9,460
CAL YEAR 1997	TOTAL	98,844	MEAN	271	MAX	3,500	MIN	91	AC-FT	196,100		
WTR YEAR 1998	TOTAL	91,495	MEAN	251	MAX	1,730	MIN	104	AC-FT	181,500		

PLATTE RIVER BASIN (SALT CREEK)

OAK CREEK at Lincoln, 00227700 - 1998

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.--Records 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 5,910 cubic feet per second June 14, gage height 18.01 feet;
minimum daily discharge 9.5 cubic feet per second October 1.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	29	72	26E	145	31	98	76	173	100	32	27
2	10	20	46	27E	62	30	87	73	154	143	33	27
3	11	18	40	26E	44E	29	79	70	138	136	37	26
4	10	18	35E	22E	36E	28	74	66	127	126	35	25
5	11	15	28E	23E	37E	27	70	65	116	120	35	25
6	11	14	27E	24E	40E	27	68	64	110	119	35	25
7	10	14	26E	25E	40	26E	204	61	104	136	36	24
8	11	14	29E	22E	39	26E	440	57	218	173	35	24
9	10	14	31E	17E	40	24E	306	54	508	151	33	23
10	11	15	30E	18E	42	23E	224	54	287	265	32	23
11	12	15	27E	18E	43	22E	184	53	446	154	33	24
12	16	14	25E	17E	41	21E	167	52	411	141	32	24
13	22	15	24E	16E	38	25E	153	53	242	136	32	24
14	24	15	26E	23E	38	29E	139	50	3,230	133	31	24
15	16	14E	28E	26E	37	32E	131	59	1,140	130	30	25
16	13	13E	28E	27E	38	33	193	55	612	127	29	25
17	12	14E	28E	26E	40	38	135	49	486	56	30	26
18	12	15E	29E	27E	40	43	117	46	415	37	29	25
19	12	15E	29E	28E	38	44	110	45	354	37	28	29
20	14	16E	27E	28E	37	43	105	54	299	35	27	35
21	13	16E	24E	28E	35	50	99	71	265	33	41	30
22	13	17	25E	29E	33	63	93	2,060	235	53	168	28
23	14	17	25E	28E	32	62	89	567	213	62	66	27
24	17	17	26E	28E	32	58	86	414	203	43	43	28
25	25	18	26E	28E	32	72	83	361	183	39	35	63
26	39	17	23E	29	29	97	81	310	165	40	36	67
27	31	17	22E	35	30	182	76	270	146	41	36	67
28	24	17	24E	47	31	234	72	237	132	36	48	67
29	22	187	24E	56	-----	132	75	886	120	37	31	68
30	33	192	25E	55	-----	106	76	248	110	42	29	70
31	44	-----	25E	48	-----	101	-----	200	-----	34	28	-----
TOTAL	532.5	832	904	877	1,169	1,758	3,914	6,780	11,344	2,915	1,205	1,025
MEAN	17.2	27.7	29.2	28.3	41.8	56.7	130	219	378	94.0	38.9	34.2
MAX	44	192	72	56	145	234	440	2,060	3,230	265	168	70
MIN	9.5	13	22	16	29	21	68	45	104	33	27	23
AC-FT	1,060	1,650	1,790	1,740	2,320	3,490	7,760	13,450	22,500	5,780	2,390	2,030
CAL YEAR 1997 TOTAL		12,286.0	MEAN	33.7	MAX	334	MIN	8.9	AC-FT	24,370		
WTR YEAR 1998 TOTAL		33,255.5	MEAN	91.1	MAX	3,230	MIN	9.5	AC-FT	65,960		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

HAIGLER CANAL from Republican River, 00061000 - 1998

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 are furnished by the State of Colorado. October record was revised after publication in 1997 calendar year.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25						0	31	25	17	7.5	19
2	25						0	24	24	19	7.3	20
3	26						0	22	21	19	13	19
4	26						0	23	19	20	14	17
5	26						0	23	14	24	12	17
6	26						0	23	14	24	15	16
7	26						0	23	14	24	22	16
8	28						0	24	17	25	23	16
9	26						0	26	20	29	27	16
10	22						0	18	14	28	26	16
11	27						0	18	4.0	27	27	16
12	32						0	16	12	29	26	17
13	32						0	16	21	22	23	20
14	33						13	20	22	19	23	23
15	33						20	26	22	19	23	23
16	32						15	26	28	19	23	22
17	25						9.0	22	30	23	23	21
18	17						15	15	26	23	23	23
19	17						20	17	23	23	22	21
20	19						20	15	23	21	22	19
21	29						20	13	23	20	20	20
22	29						34	10	21	21	19	21
23	30						35	11	26	20	19	23
24	30						35	8.7	24	20	18	23
25	13						35	6.9	21	20	21	22
26	1.0						34	8.1	20	30	20	21
27	4.0						34	17	20	30	21	21
28	1.9						32	16	17	27	22	22
29	.35				-----		32	12	15	25	20	20
30	0				-----		32	20	18	19	20	21
31	0	-----			-----		-----	23	-----	15	18	-----
TOTAL	661.25						435.0	573.7	598.0	701	619.8	591
MEAN	21.3						14.5	18.5	19.9	22.6	20.0	19.7
MAX	33						35	31	30	30	27	23
MIN	0						0	6.9	4.0	15	7.3	16
AC-FT	1,310						863	1,140	1,190	1,390	1,230	1,170
CAL YEAR 1997 MAX		42	MIN	0	AC-FT	7,320						
WTR YEAR 1998 MAX		35	MIN	0	AC-FT	8,290						

REPUBLICAN RIVER BASIN

HAIGLER CANAL from Republican River, 00061400 - 1998

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 are furnished by the State of Colorado. October record was revised after publication in 1997 calendar year.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17						0	30	14	11	7.7	13
2	17						0	24	15	15	7.0	13
3	18						0	20	13	15	8.3	12
4	18						0	20	16	14	11	13
5	18						0	19	12	18	8.3	10
6	18						0	22	11	21	7.8	11
7	18						0	21	12	21	15	14
8	18						0	22	12	20	13	13
9	18						0	30	20	24	20	10
10	18						0	20	14	26	19	8.8
11	15						0	20	6.9	26	20	9.1
12	18						0	17	7.3	28	21	10
13	18						0	17	13	22	19	12
14	17						20	24	12	17	18	15
15	18						19	25	9.1	16	22	15
16	20						15	23	10	16	22	14
17	20						9.5	20	12	18	20	14
18	16						8.5	14	10	22	19	13
19	15						8.0	13	9.7	20	19	12
20	16						7.8	13	12	19	19	11
21	23						7.4	11	12	17	18	14
22	24						30	8.5	11	18	16	17
23	24						32	10	13	17	13	19
24	26						32	9.7	13	17	12	19
25	35						32	5.8	13	18	14	18
26	30						32	6.9	11	27	14	18
27	15						32	8.9	11	30	13	18
28	19						31	11	8.9	29	15	18
29	3.9				-----		31	7.4	5.9	26	10	17
30	0				-----		30	11	8.9	21	13	15
31	0	-----			-----		-----	12	-----	18	14	-----
TOTAL	550.9						377.2	516.2	348.7	627	468.1	415.9
MEAN	17.8						12.6	16.7	11.6	20.2	15.1	13.9
MAX	35						32	30	20	30	22	19
MIN	0						0	5.8	5.9	11	7.0	8.8
AC-FT	1,090						748	1,020	692	1,240	928	825
CAL YEAR 1997	MAX	38	MIN	0	AC-FT	5,650						
WTR YEAR 1998	MAX	35	MIN	0	AC-FT	6,550						

REPUBLICAN RIVER BASIN

HAIGLER CANAL SPILLBACK to Arikaree River, 00061500 - 1998

LOCATION.--NW1/4NE1/4 Sec. 36-1-42 W. near Haigler

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

PERIOD OF RECORD.--1985, 1987 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	0	7.5	1.5	7.1	0
2							0	0	9.0	0	6.4	0
3							0	0	7.0	0	3.9	0
4							0	2.5	5.9	0	8.4	0
5							0	.10	7.2	1.5	7.1	0
6							0	1.4	6.2	1.8	4.9	0
7							0	2.0	6.1	.04	6.0	.14
8							0	5.9	6.8	0	3.4	0
9							0	12	7.3	1.7	2.3	0
10							0	9.1	6.0	5.0	.14	0
11							0	7.9	2.2	7.1	0	0
12							0	7.3	0	10	.09	0
13							0	5.3	1.3	9.6	.20	1.8
14							12	E 6.8	5.4	6.6	0	6.2
15							10	14	2.3	8.5	0	7.9
16							11	14	.08	5.5	0	5.5
17							9.9	13	3.8	.81	0	5.0
18							1.5	9.9	4.7	4.5	0	4.5
19							.01	7.5	1.0	2.3	0	1.2
20							.01	8.3	1.9	1.0	0	0
21							2.0	8.4	.02	.07	0	.14
22							15	5.7	1.1	.33	0	1.7
23							7.5	6.9	1.8	.33	0	3.5
24							6.5	7.5	.19	0	.19	6.1
25							6.9	4.9	0	0	.24	6.0
26							5.5	5.2	0	1.9	0	3.3
27							5.3	2.8	0	2.3	0	4.8
28							6.7	11	2.8	1.9	0	4.4
29					-----		4.5	3.9	2.0	4.1	0	3.6
30					-----		.49	8.4	.41	7.9	0	1.2
31		-----			-----		-----	3.8	-----	14	0	-----
TOTAL							104.81	195.50	100.00	100.28	50.36	66.98
MEAN							3.49	6.31	3.33	3.23	1.62	2.23
MAX							15	14	9.0	14	8.4	7.9
MIN							0	0	0	0	0	0
AC-FT							208	388	198	199	100	133
CAL YEAR 1997 MAX		25	MIN	0	AC-FT	1,120						
WTR YEAR 1998 MAX		15	MIN	0	AC-FT	1,230						

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

MEEKER-DRIFTWOOD CANAL from Republican River, 00087000 - 1998

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 are furnished by United States Bureau of Reclamation.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	282	76	219
2									0	264	76	205
3									0	234	101	171
4									0	225	112	84
5									0	225	126	2.2
6									0	211	133	0
7									0	204	147	0
8									42	194	154	0
9									67	173	154	0
10									76	117	190	0
11									74	91	206	0
12									87	92	153	0
13									86	95	97	0
14									85	121	75	0
15									86	177	69	0
16									90	209	69	0
17									108	247	100	0
18									123	262	171	0
19									140	261	219	0
20									146	286	229	0
21									146	298	229	0
22									181	286	229	0
23									232	270	229	0
24									241	211	238	0
25									240	184	242	0
26									247	184	228	0
27									248	143	211	0
28									247	120	191	0
29					-----				257	124	184	0
30					-----				278	100	184	0
31		-----			-----		-----		-----	79	206	-----
TOTAL									3,527	5,969	5,030	681.2
MEAN									118	193	162	22.7
MAX									278	298	242	219
MIN									0	79	69	0
AC-FT									7,000	11,840	9,980	1,350
CAL YEAR 1997	MAX	312	MIN	0	AC-FT	32,230						
WTR YEAR 1998	MAX	298	MIN	0	AC-FT	30,160						

REPUBLICAN RIVER BASIN

SWANSON LAKE near Trenton, 06829000 - 1998

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.

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 99,760 acre-feet May 30, 31, elevation 2,749.38 feet.
Minimum 50,960 acre-feet September 30, elevation 2,736.84 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 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71,580	71,660	73,960	78,100	82,750E	88,100	92,990	96,790	99,660	85,200	67,720	53,590
2	71,550	71,660	74,120	78,340	82,970E	88,140	92,990	96,790	99,480	84,510	67,570	53,060
3	71,510	71,660	74,310	78,460	83,200E	88,270	93,120	96,880	99,570	83,650	67,230	52,670
4	71,430	71,740	74,350	78,540	83,420E	88,400	93,260	96,880	99,530	82,970	66,940	52,410
5	71,390	71,740	74,430	78,750	83,650E	88,490	93,480	96,880	99,530	82,340	66,560	52,380
6	71,350	71,740	74,470	78,910	83,830E	88,620	93,740	96,930	99,530	81,710	66,160	52,310
7	71,310	71,820	74,510	78,990	84,050E	88,920	93,970	96,930	99,530	81,110	65,650	52,280
8	71,240	71,890	74,670	79,030	84,280E	89,050	94,100	97,020	99,200	80,500	65,100	52,180
9	71,160	71,930	74,820	79,110	84,600	89,140	94,233	97,340	98,750	80,160	64,810	52,120
10	71,120	72,010	74,980	79,150	84,910	89,220	94,410	97,430	98,380	80,050	64,260	52,020
11	71,040	72,050	75,100	79,230	85,120	89,310	94,720	97,610	98,150	79,750	64,190	51,960
12	71,580	72,160	75,220	79,270	85,330	89,480	94,770	97,650	97,840	79,480	63,900	51,890
13	71,390	72,280	75,260	79,360	85,460	89,660	94,900	97,740	97,470	79,150	63,620	51,830
14	71,390	72,320	75,340	79,480E	85,670	89,830	95,040	97,790	97,110	78,750	63,290	51,830
15	71,310	72,320	75,540	79,640E	85,880	90,000	95,170	97,840	96,880	78,260	62,970	51,790
16	71,280	72,320	75,660	79,790E	86,130	90,180	95,260	97,840	95,980	77,740	62,650	51,760
17	71,240	72,320	75,820	79,940E	86,300	90,400	95,480	97,840	95,580	76,530	62,230	51,700
18	71,240	72,360	75,930	80,090	86,520	90,570	95,530	97,790	94,720	75,580	61,660	51,630
19	71,160	72,480	76,090	80,160	86,730	90,790	95,620	97,790	94,100	74,630	60,990	51,540
20	71,120	72,550	76,210	80,350	86,860	90,960	95,710	97,840	93,430	73,600	60,540	51,310
21	71,040	72,630	76,330	80,430	87,030	91,140	95,800	97,880	92,810	72,710	59,950	51,310
22	71,040	72,750	76,490	80,540	87,290	91,320	95,890	98,110	92,190	71,850	59,320	51,280
23	71,010	72,860	76,610	80,730E	87,410	91,490	95,980	98,790	91,530	71,080	58,640	51,280
24	70,970	72,980	76,890	80,920E	87,590	91,670	96,160	99,200	90,660	70,550	57,950	51,250
25	71,240	73,140	77,090	81,140E	87,760	91,840	96,520	99,300	89,920	69,980	57,270	51,210
26	71,350	73,210	77,170	81,370E	87,890	92,110	96,570	99,440	89,050	69,670	56,620	51,150
27	71,310	73,290	77,370	81,600E	88,060	92,190	96,570	99,530	88,230	69,330	56,150	51,120
28	71,310	73,530	77,410	81,790E	88,140	92,370	96,570	99,660	87,370	68,920	55,650	51,120
29	71,390	73,680	77,540	81,980E	-----	92,640	96,610	99,710	86,690	68,580	55,150	51,020
30	71,470	73,800	77,740	82,250E	-----	92,680	96,660	99,760	86,050	68,280	54,580	50,960
31	71,620	-----	77,940	82,480E	-----	92,900	-----	99,760	-----	68,020	54,050	-----
MAX	71,620	73,800	77,940	82,480	88,140	92,900	96,660	99,760	99,660	85,200	67,720	53,590
MIN	70,970	71,660	73,960	78,100	82,750	88,100	92,990	96,790	86,050	68,020	54,050	50,960
CHANGE	40.0	2,180	4,140	4,540	5,660	4,760	3,760	3,100	-13,710	-18,030	-13,970	-3,090
CAL YEAR 1997			MEAN	96,936	MAX	123,900	MIN	70,970				
WTR YEAR 1998			MEAN	79,404	MAX	99,760	MIN	50,960				

E indicates estimated storage.

REPUBLICAN RIVER BASIN

REPUBLICAN RIVER near Trenton, 00126700 - 1998

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 WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	113	50	49
2									0	100	50	15
3									0	100	50	0
4									0	100	50	0
5									0	100	50	0
6									0	117	50	0
7									0	126	64	0
8									86	126	101	0
9									155	126	101	0
10									155	78	99	0
11									117	50	108	0
12									86	50	99	0
13									78	50	69	0
14									78	50	69	0
15									78	69	87	0
16									94	103	101	0
17									146	149	101	0
18									173	174	101	0
19									162	172	101	0
20									153	172	99	0
21									151	172	99	0
22									151	172	99	0
23									151	153	99	0
24									151	123	99	0
25									151	123	98	0
26									151	109	82	0
27									149	78	61	0
28									149	47	50	0
29					-----				134	56	50	0
30					-----				126	63	50	0
31		-----			-----		-----		-----	50	49	-----
TOTAL									3,025	3,271	2,456	64
MEAN									101	106	79.2	2.13
MAX									173	174	108	49
MIN									0	47	49	0
AC-FT									6,000	6,490	4,870	127
CAL YEAR 1997	MAX	220	MIN	0	AC-FT	18,840						
WTR YEAR 1998	MAX	174	MIN	0	AC-FT	17,490						

REPUBLICAN RIVER BASIN

FRENCHMAN CREEK near Imperial, 06831500 - 1998

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

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 94 cubic feet per second July 2, gage height 2.03 feet; minimum daily discharge 11 cubic feet per second August 24, 26, 29-31, September 1-6, 9, 11-13, 19, 20.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	19	19	23	23	20	24	21	17	16	16	11
2	15	19	19	23	23	27	23	21	17	44	18	11
3	15	18	19	23	23	25	24	20	17	16	16	11
4	15	18	18	23	23	24	23	20	18	15	15	11
5	15	19	19	23	23	25	23	20	18	16	15	11
6	15	19	19	23	24	24	23	21	18	15	15	11
7	16	19	20	23	23	25	23	20	18	15	14	12
8	16	19	20	22	24	23	23	20	18	16	14	12
9	17	19	21	22	25	24	22	28	18	17	14	11
10	16	19	22	21	26	24	22	28	19	16	16	20
11	16	19	21	21	26	24	21	25	19	16	15	11
12	20	19	21	22	25	23	21	24	18	16	17	11
13	19	20	22	21	25	25	20	22	17	15	16	11
14	18	18	22	22	25	24	22	21	17	14	15	12
15	17	19	21	22	25	24	22	21	17	14	14	12
16	17	20	22	22	26	24	20	20	17	14	14	12
17	17	20	22	22	26	24	18	19	16	13	13	12
18	17	19	22	23	26	25	18	19	15	13	13	12
19	16	19	22	23	25	24	18	18	15	12	13	11
20	17	19	21	23	25	24	18	18	15	12	13	11
21	17	19	22	23	25	24	20	18	15	12	12	12
22	17	19	22	23	24	24	21	20	16	13	12	12
23	18	19	22	23	24	24	21	22	30	14	12	13
24	18	19	23	23	24	24	20	20	20	20	11	13
25	17	19	23	23	27	24	19	20	17	24	12	12
26	17	18	22	23	23	25	19	20	17	22	11	12
27	23	18	22	23	20	28	20	19	16	21	12	12
28	21	18	23	23	20	25	21	19	15	17	12	12
29	20	18	23	23	-----	24	21	19	15	16	11	12
30	20	19	23	23	-----	24	20	18	14	16	11	12
31	20	-----	23	23	-----	24	-----	18	-----	16	11	-----
TOTAL	537	566	660	700	678	752	630	639	519	516	423	358
MEAN	17.3	18.9	21.3	22.6	24.2	24.3	21.0	20.6	17.3	16.6	13.6	11.9
MAX	23	20	23	23	27	28	24	28	30	44	18	20
MIN	15	18	18	21	20	20	18	18	14	12	11	11
AC-FT	1,070	1,120	1,310	1,390	1,340	1,490	1,250	1,270	1,030	1,020	839	710
CAL YEAR 1997 TOTAL		8,992	MEAN	24.6	MAX	596	MIN	12	AC-FT	17,840		
WTR YEAR 1998 TOTAL		6,978	MEAN	19.1	MAX	44	MIN	11	AC-FT	13,840		

REPUBLICAN RIVER BASIN

FRENCHMAN CREEK near Enders, 06832500 - 1998

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. Records good, except estimated records are poor.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									.50E	199	102	
2									.50E	169	95	
3									.50E	147	74	
4									.50E	147	79	
5									.50E	138	91	
6									.50E	138	78	
7									.50E	138	69	
8									.50E	131	79	
9									.50E	99	98	
10									.50E	81	113	
11									.50E	83	127	
12									.50E	86	130	
13									.50E	111	121	
14									.50E	141	112	
15									.50E	147	119	
16									.50E	147	130	
17									.50E	143	126	
18									.50E	143	24	
19									4.5 E	148	.20E	
20									66	157	.20E	
21									83	165	.20E	
22									115	157	.20E	
23									141	156	.20E	
24									142	154	.20E	
25									167	136	.20E	
26									193	127	.20E	
27									194	125	.20E	
28									203	120	.30E	
29					-----				202	112	.30E	
30					-----				202	121	.30E	
31		-----			-----		-----		-----	102	.30E	-----
TOTAL									1,721.50	4,168	1,770.00	
MEAN									57.4	134	57.1	
MAX									203	199	130	
MIN									.50	81	.20	
AC-FT									3,410	8,270	3,510	

CAL YEAR 1997 MAX 213 MIN .50 AC-FT 17,030
WTR YEAR 1998 MAX 203 MIN .20 AC-FT 15,190

E indicated estimated discharge.

REPUBLICAN RIVER BASIN

STINKING WATER CREEK near Palisade, 06835000 - 1998

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

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

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

PERIOD OF RECORD.--1949 - present

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

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 96 cubic feet per second June 24, gage height 4.45 feet; minimum daily discharge 12 cubic feet per second July 20.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	27	25	27	27	25	28	22	19	15	17	14
2	16	26	25	27	27	24	28	22	18	15	17	13
3	16	25	25	27	27	24	27	22	18	14	19	13
4	16	24	25	27	27	24	27	22	18	14	18	13
5	16	24	25	26	27	25	27	21	19	15	17	13
6	16	24	25	25	27	25	27	21	19	14	17	13
7	16	24	24	26	27	26	27	21	19	14	17	12
8	16	24	23	26	26	27	27	21	19	14	16	13
9	17	24	21E	26	26	25	26	23	19	14	15	12
10	18	24	21E	24E	27	24	26	26	20	15	25	12
11	18	24	21E	23E	29	23E	25	28	20	15	32	12
12	21	24	22E	22E	29	23E	25	29	22	15	31	12
13	22	23E	23	23E	27	24	24	27	23	15	26	12
14	24	21E	23	24	27	25	25	26	26	14	21	12
15	25	20E	24	23E	27	26	25	25	19	14	20	14
16	22	21E	24	24	27	25	25	23	18	14	18	13
17	21	21E	24	24	27	26	24	22	17	13	18	13
18	21	22	24	24	28	26	24	21	16	13	17	13
19	21	23	24	25	27	27	24	20	16	13	16	13
20	21	23	25	25	27	27	24	19	16	12	16	13
21	21	24	24	24E	26	27	24	19	16	13	22	13
22	21	24	24	24E	26	26	23	19	16	13	19	13
23	21	24	24	25	26	26	23	21	26	14	17	14
24	21	24	24	25	25	26	23	22	73	14	16	14
25	20E	24	23E	25	25	26	23	23	22	15	15	14
26	20E	24	23E	25	25	26	23	23	18	18	15	14
27	22E	24	23E	26	25	26	23	21	17	18	15	13
28	24	25	24	26	25	29	22	20	16	18	15	13
29	26	26	25	27	-----	32	22	20	15	21	15	13
30	26	26	25	27	-----	32	22	19	14	17	14	13
31	26	-----	26	27	-----	29	-----	19	-----	16	14	-----
TOTAL	628	713	738	779	746	806	743	687	614	459	570	389
MEAN	20.3	23.8	23.8	25.1	26.6	26.0	24.8	22.2	20.5	14.8	18.4	13.0
MAX	26	27	26	27	29	32	28	29	73	21	32	14
MIN	16	20	21	22	25	23	22	19	14	12	14	12
AC-FT	1,250	1,410	1,460	1,550	1,480	1,600	1,470	1,360	1,220	910	1,130	772
CAL YEAR 1997 TOTAL		9,689	MEAN	26.5	MAX	375	MIN	11	AC-FT	19,220		
WTR YEAR 1998 TOTAL		7,872	MEAN	21.6	MAX	73	MIN	12	AC-FT	15,610		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

CULBERTSON CANAL from Frenchman Creek, 00035000 - 1998

LOCATION.--SW1/4NW1/4 Sec. 32-5-33 W. near Palisade

GAGE.--Continuous stage recorder and Parshall flume

PERIOD OF RECORD.--1920 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							0	42	39	172	134	
2							0	41	38	178	132	
3							0	41	36	169	129	
4							0	40	37	152	122	
5							0	40	36	148	116	
6							12	39	37	142	123	
7							46	39	36	141	119	
8							47	39	36	145	110	
9							41	40	39	146	106	
10							36	41	38	133	116	
11							26	41	39	115	124	
12							30	41	40	109	132	
13							41	42	40	104	139	
14							45	37	43	107	140	
15							45	39	38	131	136	
16							44	43	31	139	139	
17							44	43	33	141	153	
18							44	41	29	136	152	
19							44	40	30	134	119	
20							41	36	26	136	82	
21							38	34	28	139	71	
22							38	38	54	44	63	
23							41	40	86	0	52	
24							41	40	118	0	14	
25							41	40	127	87	0	
26							41	40	127	116	0	
27							43	40	149	145	0	
28							42	42	159	147	0	
29					-----		42	43	164	146	0	
30					-----		42	40	168	135	0	
31		-----			-----		42	40	168	135	0	
							40	40	140	140	0	-----
TOTAL							995	1,242	1,901	3,877	2,723	
MEAN							33.2	40.1	63.4	125	87.8	
MAX							47	43	168	178	153	
MIN							0	34	26	0	0	
AC-FT							1,970	2,460	3,770	7,690	5,400	
CAL YEAR 1997	MAX	205	MIN	0	AC-FT	23,800						
WTR YEAR 1998	MAX	178	MIN	0	AC-FT	21,300						

REPUBLICAN RIVER BASIN

RIVERSIDE CANAL from Frenchman Creek, 00127000 - 1998

LOCATION.--NE1/4SE1/4 Sec. 33-4-32 W. near Culbertson

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1920 - 1925, 1927, 1937 - 1941, 1953 - 1958, 1963 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0							0	10	10	7.5	11
2	0							0	10	9.9	7.5	11
3	0							0	9.7	9.5	7.4	11
4	0							0	9.7	9.5	7.3	11
5	0							0	10	9.4	5.5	10
6	0							0	10 E	9.7	4.4	11
7	1.5							0	10 E	9.5	4.7	10
8	6.6							0	10 E	9.1	5.8	8.6
9	7.9							0	10 E	9.7	5.2	8.4
10	11							0	10 E	11	5.4	9.2
11	13							0	10 E	8.2	11	9.5
12	11 E							0	3.4E	7.4	9.4	9.9
13	13 E							0	9.2	5.6	11	11
14	14							0	10	5.5	9.5	8.4
15	14							0	11	5.2	8.9	9.8
16	14							0	10	6.1	8.6	11
17	14							0	10	4.8	8.5	11
18	11							0	9.8	4.3	8.6	11
19	0							0	10	4.7	8.6	9.5
20	0							0	11	3.3	7.5	0
21	0							0	10	5.5	6.7	0
22	0							0	11	8.3	6.5	0
23	0							0	13	14	5.7	0
24	0							0	15	15	7.2	0
25	0							.59	15	14	10	0
26	0							8.3	13	12	8.9	0
27	0							7.8	13	8.3	9.1	0
28	0							7.7	11	7.5	9.3	0
29	0				-----			10	11	7.0	9.3	0
30	0				-----			9.8	11	7.3	10	0
31	0	-----			-----		-----	9.8	-----	7.0	11	-----
TOTAL	131.0							53.99	316.8	258.3	246.0	192.3
MEAN	4.23							1.74	10.6	8.33	7.94	6.41
MAX	14							10	15	15	11	11
MIN	0							0	3.4	3.3	4.4	0
AC-FT	260							107	628	512	488	381
CAL YEAR 1997	MAX	22	MIN	0	AC-FT	2,700						
WTR YEAR 1998	MAX	15	MIN	0	AC-FT	2,380						

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

RED WILLOW CREEK above Hugh Butler Lake, 06837300 - 1998

LOCATION.--NE1/4SE1/4 Sec. 13-5-31 W., Hayes County, Lat. 40°24'05", Long. 100°46'45", on the left bank 15 feet upstream from the County road bridge; 7.0 miles upstream from Red Willow Dam; 12 miles northeast of Culbertson and 16 miles north west of McCook.

DRAINAGE AREA.--Approximately 600 square miles; approximately 200 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,588.80 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1960 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 158 cubic feet per second June 24, gage height 5.87 feet; minimum daily discharge 6.8 cubic feet per second July 18.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	32	26	24E	29	25	31	20	16	15	16	9.4
2	13	27	25	25E	29	25E	29	20	16	14	18	9.0
3	13	25	25	33	29	23E	29	21	16	13	29	9.2
4	11	22	24	12E	28	22E	30	20	16	12	21	9.1
5	11	21	22E	11E	28	22	28	19	16	13	19	8.7
6	11	21	18E	11E	27	23	26	19	15	13	17	8.3
7	12	20	16E	12E	27	24	25	20	15	12	16	8.3
8	13	20	16E	12E	27	22E	24	20	19	12	15	8.0
9	16	20	17E	13E	27	20E	23	22	20	13	14	8.0
10	18	20	18E	14E	30	17E	22	24	21	13	13	8.2
11	19	20	18E	11E	34	14E	21	29	30	12	14	8.0
12	23	21	18E	12E	35	14E	21	32	38	13	16	7.6
13	29	21	18E	11E	36	16E	20	33	36	12	15	7.3
14	36	22	19E	13E	35	18	20	29	35	10	16	8.6
15	37	20	19E	15E	33	20	20	25	29	8.8	15	10
16	34	18E	20E	17E	33	23	21	23	22	8.2	15	10
17	29	17E	21	19E	35	24	21	21	19	7.7	14	11
18	23	18E	22	21E	37	23	21	19	17	6.8	13	11
19	20	19E	23	23E	37	24	22	18	15	7.0	12	10
20	21	19	24	24	35	25	21	17	14	7.0	11	9.4
21	20	19	24	23E	33	24	21	17	13	7.7	9.5	9.0
22	19	20	24	24	32	24	20	29	13	8.1	9.5	9.6
23	18	21	23	24	31	23	20	34	24	7.3	9.1	9.9
24	23	21	22E	24	30	23	20	41	110	9.1	8.2	9.0
25	33	21	20E	24	30	22	21	38	42	11	8.0	10
26	42	21	20E	24	30	22	23	34	26	14	9.1	9.6
27	46	23	21E	24	29	22	23	28	21	15	9.1	8.7
28	43	24	22E	25	27	25	22	24	18	14	8.2	9.5
29	41	26	23E	26	-----	32	21	21	16	14	8.1	9.3
30	38	28	24E	28	-----	37	21	18	15	13	8.4	9.0
31	35	-----	24E	29	-----	34	-----	18	-----	16	9.1	-----
TOTAL	760	647	656	608	873	712	687	753	723	351.7	415.3	272.7
MEAN	24.5	21.6	21.2	19.6	31.2	23.0	22.9	24.3	24.1	11.3	13.4	9.09
MAX	46	32	26	33	37	37	31	41	110	16	29	11
MIN	11	17	16	11	27	14	20	17	13	6.8	8.0	7.3
AC-FT	1,510	1,280	1,300	1,210	1,730	1,410	1,360	1,490	1,430	698	824	541
CAL YEAR 1997 TOTAL		8,091.5	MEAN	22.2	MAX	46	MIN	8.2	AC-FT	16,050		
WTR YEAR 1998 TOTAL		7,458.7	MEAN	20.4	MAX	110	MIN	6.8	AC-FT	14,790		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

HUGH BUTLER LAKE near McCook, 06837390 - 1998

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

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

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

PERIOD OF RECORD.--September 1961 - present

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 41,660 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 35,930 acre-feet May 28-30, elevation 2,580.65 feet.
Minimum contents 26,920 acre-feet September 30, elevation 2,574.31 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 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29,940	30,870	31,490	32,330	33,200	34,160	35,020	35,490	35,870	33,940	30,670	27,840
2	29,950	30,870	31,550	32,360	33,250	34,200	35,030	35,470	35,800	33,800	30,680	27,720
3	29,950	30,870	31,560	32,390	33,280	34,220	35,060	35,460	35,690	33,700	30,680	27,620
4	29,920	30,900	31,580	32,430	33,290	34,230	35,060	35,490	35,650	33,560	30,630	27,530
5	29,920	30,900	31,580	32,460	33,340	34,250	35,110	35,500	35,620	33,470	30,580	27,480
6	29,950	30,900	31,580	32,520	33,350	34,250	35,170	35,500	35,620	33,320	30,540	27,430
7	29,910	30,910	31,610	32,520	33,400	34,340	35,220	35,500	35,660	33,170	30,530	27,380
8	29,910	30,940	31,650	32,550	33,420	34,330	35,220	35,490	35,690	33,000	30,490	27,280
9	29,830	30,950	31,690	32,570	33,500	34,300	35,220	35,500	35,680	32,880	30,460	27,200
10	29,840	30,950	31,710	32,570	33,560	34,320	35,240	35,570	35,680	32,860	30,350	27,180
11	29,860	30,970	31,720	32,580	33,610	34,330	35,250	35,630	35,740	32,800	30,170	27,160
12	30,010	30,980	31,720	32,600	33,640	34,340	35,360	35,630	35,770	32,820	30,140	27,140
13	29,950	31,020	31,760	32,610	33,700	34,400	35,330	35,650	35,800	32,760	30,060	27,160
14	29,950	31,020	31,760	32,640	33,730	34,400	35,330	35,730	35,760	32,670	29,990	27,150
15	29,990	31,020	31,810	32,660	33,770	34,430	35,320	35,730	35,650	32,580	29,920	27,120
16	30,010	31,020	31,830	32,670	33,850	34,460	35,300	35,710	35,550	32,450	29,870	27,120
17	30,030	31,050	31,860	32,720	33,900	34,510	35,300	35,730	35,550	32,260	29,770	27,100
18	30,070	31,070	31,880	32,730	33,940	34,540	35,330	35,790	35,460	32,070	29,650	27,100
19	30,090	31,110	31,910	32,760	34,000	34,580	35,360	35,770	35,350	31,860	29,500	27,100
20	30,090	31,120	31,920	32,820	34,020	34,600	35,330	35,740	35,250	31,650	29,390	27,050
21	30,070	31,150	31,960	32,830	34,080	34,650	35,330	35,710	35,160	31,410	29,250	26,980
22	30,070	31,150	31,990	32,860	34,140	34,680	35,360	35,760	34,980	31,180	29,130	26,960
23	30,100	31,180	32,010	32,880	34,170	34,710	35,390	35,770	34,940	31,020	29,000	26,930
24	30,350	31,220	32,080	32,920	34,200	34,750	35,440	35,790	34,910	30,940	28,830	26,950
25	30,490	31,280	32,100	32,950	34,250	34,800	35,490	35,790	34,830	30,870	28,640	27,000
26	30,500	31,270	32,120	32,960	34,190	34,880	35,470	35,820	34,690	30,900	28,470	27,000
27	30,570	31,290	32,170	33,010	34,200	34,880	35,410	35,870	34,540	30,840	28,340	26,980
28	30,640	31,360	32,180	33,050	34,170	34,880	35,380	35,930	34,390	30,820	28,260	26,970
29	30,710	31,440	32,200	33,070	-----	34,980	35,390	35,930	34,230	30,850	28,160	26,950
30	30,770	31,460	32,230	33,100	-----	34,950	35,410	35,930	34,080	30,780	28,060	26,920
31	30,810	-----	32,260	33,190	-----	34,980	-----	35,900	-----	30,710	27,930	-----
MAX	30,810	31,460	32,260	33,190	34,250	34,980	35,490	35,930	35,870	33,940	30,680	27,840
MIN	29,830	30,870	31,490	32,330	33,200	34,160	35,020	35,460	34,080	30,710	27,930	26,920
CHANGE	890	650	800	930	980	810	430	490	-1,820	-3,370	-2,780	-1,010
CAL YEAR 1997			MEAN	34,760	MAX	39,310	MIN	29,720				
WTR YEAR 1998			MEAN	32,438	MAX	35,930	MIN	26,920				

REPUBLICAN RIVER BASIN

RED WILLOW CREEK near McCook, 06837500 - 1998

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 the 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.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									5.6	62	30	55
2									5.6	63	30	63
3									5.7	63	29	59
4									5.9	61	30	35
5									6.0	65	30	31
6									6.3	83	29	30
7									6.3	87	29	28
8									6.3	77	29	27
9									6.5	58	32	26
10									6.7	44	59	16
11									6.7	32	86	4.6
12									6.3	32	82	4.5
13									5.6	32	61	4.2
14									22	34	43	4.6
15									45	55	36	4.9
16									32	69	39	4.8
17									33	95	55	4.9
18									35	108	63	4.8
19									47	107	65	4.7
20									49	105	64	4.7
21									56	122	63	4.7
22									89	122	63	4.8
23									101	102	64	4.9
24									101	78	76	4.8
25									102	59	76	4.8
26									93	55	67	4.9
27									83	45	61	5.0
28									82	34	52	5.1
29					-----				79	34	47	5.0
30					-----				68	34	48	5.0
31		-----			-----		-----		-----	32	50	-----
TOTAL									1,196.5	2,049	1,588	465.7
MEAN									39.9	66.1	51.2	15.5
MAX									102	122	86	63
MIN									5.6	32	29	4.2
AC-FT									2,370	4,060	3,150	924
CAL YEAR 1997 PARTIAL YEAR RECORD			TOTAL	5,681.20	MEAN	46.6	MAX	119	MIN	4.7	AC-FT	11,270
WTR YEAR 1998 PARTIAL YEAR RECORD			TOTAL	5,299.20	MEAN	43.4	MAX	122	MIN	4.2	AC-FT	10,510

REPUBLICAN RIVER BASIN

RED WILLOW CANAL from Red Willow Creek, 00126000 - 1998

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 are furnished by United States Bureau of Reclamation.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	57	21	45
2									0	59	21	53
3									0	54	20	52
4									0	51	19	22
5									0	51	19	15
6									0	66	19	15
7									0	76	24	15
8									0	66	26	14
9									0	51	26	14
10									0	30	43	10
11									0	19	58	3.0
12									0	19	57	0
13									0	21	44	0
14									0	29	37	0
15									22	37	36	0
16									44	43	36	0
17									43	60	45	0
18									43	68	56	0
19									47	70	63	0
20									53	75	59	0
21									53	80	60	0
22									81	77	62	0
23									102	75	62	0
24									94	48	70	0
25									86	39	71	0
26									87	41	67	0
27									80	32	60	0
28									71	29	48	0
29					-----				67	29	43	0
30					-----				59	29	43	0
31		-----			-----		-----		-----	24	46	-----
TOTAL									1,034	1,505	1,361	258.0
MEAN									34.5	48.5	43.9	8.60
MAX									102	80	71	53
MIN									0	19	19	0
AC-FT									2,050	2,990	2,700	512
CAL YEAR 1997	MAX	86	MIN	0	AC-FT	8,630						
WTR YEAR 1998	MAX	102	MIN	0	AC-FT	8,250						

REPUBLICAN RIVER BASIN

BARTLEY CANAL from Republican River, 00006000 - 1998

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 are furnished by United States Bureau of Reclamation.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	61	19	52
2									0	56	19	56
3									0	54	18	53
4									0	53	18	16
5									0	54	18	0
6									0	68	26	0
7									0	80	29	0
8									0	80	29	0
9									18	57	29	0
10									27	29	64	0
11									33	19	93	0
12									38	19	104	0
13									37	18	97	0
14									36	21	82	0
15									37	28	75	0
16									37	39	74	0
17									51	60	70	0
18									58	72	70	0
19									60	80	70	0
20									60	96	62	0
21									59	107	49	0
22									73	103	44	0
23									78	95	44	0
24									76	63	48	0
25									75	47	61	0
26									78	35	70	0
27									79	21	70	0
28									79	17	52	0
29					-----				75	17	45	0
30					-----				68	16	45	0
31		-----			-----		-----		-----	18	44	-----
TOTAL									1,232	1,583	1,638	177
MEAN									41.1	51.1	52.8	5.90
MAX									79	107	104	56
MIN									0	16	18	0
AC-FT									2,440	3,140	3,250	351
CAL YEAR 1997	MAX	104	MIN	0	AC-FT	10,250						
WTR YEAR 1998	MAX	107	MIN	0	AC-FT	9,180						

REPUBLICAN RIVER BASIN

MEDICINE CREEK above Harry Strunk Lake, 06841000 - 1998

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

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

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

PERIOD OF RECORD.--1950 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 660 cubic feet per second May 22, gage height 10.92 feet; minimum daily discharge 19 cubic feet per second September 11-13.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	61	59	61	61	57	62	55	51	35	51	22
2	38	57	59	61	61	56	62	55	48	34	45	22
3	39	55	57	61	61	55	62	54	47	33	40	22
4	39	55	57	60	60	55	61	54	47	32	40	22
5	39	54	57	59	59	56	60	53	51	33	40	22
6	39	53	57	59	59	55	59	53	52	36	37	22
7	39	53	55	59	58	57	58	53	52	39	35	22
8	39	54	55	58E	58	58	57	53	54	37	31	22
9	39	53	53	58E	59	56	58	56	67	35	30	21
10	41	53	55	54E	64	54E	57	59	68	39	30	20
11	42	53	55	52E	67	52E	57	64	74	39	29	19
12	107	53	57	54E	66	54	56	62	72	41	33	19
13	128	53	55	54E	65	62	55	59	65	46	36	19
14	118	53	55	52E	63	59	55	56	58	46	37	21
15	74	54	55	52E	63	61	56	56	54	36	36	24
16	61	55	55	52E	63	61	57	54	50	32	32	25
17	56	52	55	56E	66	62	57	53	47	29	30	27
18	54	53	55	62E	67	62	56	51	45	27	28	26
19	52	51	56	59	65	63	56	50	45	27	28	24
20	51	51	56	60	63	62	56	49	43	26	28	24
21	51	53	56	59	62	60	56	53	42	27	27	24
22	51	54	57	58	62	59	55	383	43	27	26	25
23	51	55	56	57	61	58	55	228	46	28	26	27
24	54	55	57	57	62	58	56	169	69	34	24	28
25	63	55	57	57	63	59	57	111	75	38	23	28
26	80	56	56	57	59	59	57	86	54	39	24	27
27	74	57	58	58	59	60	59	67	46	39	25	27
28	69	58	57	59	58	60	57	58	40	36	23	27
29	68	61	57	60	-----	64	56	55	38	34	22	27
30	68	60	58	62	-----	67	56	53	36	85	22	28
31	66	-----	59	62	-----	66	-----	53	-----	62	21	-----
TOTAL	1,829	1,640	1,746	1,789	1,734	1,827	1,721	2,415	1,579	1,151	959	713
MEAN	59.0	54.7	56.3	57.7	61.9	58.9	57.4	77.9	52.6	37.1	30.9	23.8
MAX	128	61	59	62	67	67	62	383	75	85	51	28
MIN	38	51	53	52	58	52	55	49	36	26	21	19
AC-FT	3,630	3,250	3,460	3,550	3,440	3,620	3,410	4,790	3,130	2,280	1,900	1,410
CAL YEAR 1997 TOTAL		20,426	MEAN	56.0	MAX	797	MIN	32	AC-FT	40,510		
WTR YEAR 1998 TOTAL		19,103	MEAN	52.3	MAX	383	MIN	19	AC-FT	37,890		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

HARRY STRUNK LAKE near Cambridge, 06842000 - 1998

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.

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 40,100 acre-feet May 25-27, elevation 2,368.36 feet.
Minimum contents 15,530 acre-feet September 4, elevation 2,351.10 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 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19,360	22,780	25,660	28,720	31,880	35,050	37,090	37,700	39,480	32,740	24,330	15,950
2	19,460	22,890	25,790	28,850	31,980	35,080	37,090	37,720	39,380	32,300	24,480	15,750
3	19,460	22,920	25,860	28,930	32,100	35,180	37,090	37,800	39,120	31,840	24,500	15,560
4	19,530	23,040	25,970	29,020	32,200	35,250	37,030	37,950	39,060	31,430	24,470	15,530
5	19,620	23,120	26,020	29,130	32,310	35,320	37,030	37,990	39,060	31,080	24,500	15,580
6	19,690	23,170	26,100	29,240	32,420	35,390	37,050	38,120	39,180	30,630	24,520	15,640
7	19,720	23,290	26,190	29,350	32,540	35,670	37,130	38,120	39,240	30,180	24,560	15,640
8	19,780	23,420	26,300	29,440	32,660	35,740	37,050	38,140	39,280	29,800	24,560	15,660
9	19,790	23,490	26,420	29,490	32,830	35,740	37,050	38,240	39,340	29,550	24,540	15,690
10	19,880	23,540	26,510	29,530	32,960	35,850	37,030	38,420	39,240	29,600	24,230	15,750
11	19,960	23,630	26,590	29,640	33,080	35,870	37,030	38,570	39,200	29,600	23,830	15,760
12	20,350	23,740	26,690	29,700	33,190	35,980	37,140	38,610	39,140	29,640	23,490	15,760
13	20,540	23,860	26,780	29,780	33,330	36,110	37,050	38,750	39,060	29,640	23,210	15,830
14	20,740	23,960	26,860	29,850	33,450	36,190	37,030	38,850	38,870	29,640	22,920	15,860
15	20,890	23,970	26,980	29,970	33,570	36,280	36,980	38,880	38,670	29,500	22,590	15,870
16	20,960	24,050	27,080	30,080	33,690	36,370	36,940	38,940	38,550	29,180	22,180	15,920
17	21,070	24,140	27,160	30,210	33,820	36,500	36,920	39,120	38,400	28,680	21,640	15,960
18	21,190	24,260	27,260	30,310	33,920	36,620	36,920	39,160	38,050	28,160	21,090	16,000
19	21,240	24,380	27,360	30,440	34,030	36,750	36,940	39,180	37,760	27,550	20,580	16,050
20	21,300	24,430	27,450	30,560	34,120	36,770	36,880	39,180	37,410	26,830	20,040	16,060
21	21,370	24,540	27,550	30,660	34,240	36,840	36,840	39,400	37,090	26,120	19,610	16,030
22	21,480	24,640	27,670	30,770	34,360	36,880	36,900	39,800	36,710	25,410	19,220	16,040
23	21,580	24,740	27,770	30,870	34,470	36,920	37,050	40,040	36,340	24,780	18,840	16,090
24	21,800	24,840	27,910	31,020	34,560	36,990	37,160	40,040	35,960	24,500	18,420	16,190
25	21,960	24,980	28,010	31,100	34,740	37,010	37,260	40,100	35,560	24,300	18,070	16,260
26	22,020	25,040	28,130	31,180	34,810	37,130	37,280	40,100	35,190	24,170	17,620	16,320
27	22,190	25,180	28,230	31,310	34,940	37,110	37,280	40,100	34,740	24,140	17,330	16,360
28	22,290	25,350	28,350	31,540	35,030	37,070	37,340	40,060	34,290	24,140	17,050	16,390
29	22,420	25,460	28,430	31,560	-----	37,130	37,430	39,900	33,780	24,180	16,750	16,440
30	22,550	25,540	28,550	31,640	-----	37,110	37,560	39,780	33,260	24,190	16,460	16,420
31	22,680	-----	28,620	31,790	-----	37,110	-----	39,620	-----	24,250	16,190	-----
MAX	22,680	25,540	28,620	31,790	35,030	37,130	37,560	40,100	39,480	32,740	24,560	16,440
MIN	19,360	22,780	25,660	28,720	31,880	35,050	36,840	37,700	33,260	24,140	16,190	15,530
CHANGE	3,420	2,860	3,080	3,170	3,240	2,080	450	2,060	-6,360	-9,010	-8,060	230
CAL YEAR 1997			MEAN	30,494	MAX	41,040	MIN	17,390				
WTR YEAR 1998			MEAN	29,224	MAX	40,100	MIN	15,530				

REPUBLICAN RIVER BASIN

MEDICINE CREEK below Harry Strunk Lake, 06842500 - 1998

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 USGS WSP 1730).

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 366 cubic feet per second July 20, gage height 2.85 feet; minimum daily discharge 0.17 cubic feet per second September 12.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.30	.41	.49	.38	.45	54	2.0	93	265	30	126
2	.34	.31	.49	.49	.38	.38	53	2.0	62	254	30	117
3	.30	.32	.50	.43	.38	.44	54	2.0	53	235E	30	102
4	.37	.38	.49	.38	.38	.42	54	2.0	51	235E	30	39
5	.35	.32	.49	.38	.49	.44	54	1.6	28	215E	30	.22
6	.38	.38	.49	.38	.51	.42	54	1.8	15	230E	31	.20
7	.34	.38	.49	.38	.66	1.1	54	2.0	18	250E	31	.27
8	.40	.36	.49	.38	.66	.75	54	2.2	19	235E	31	.35
9	.39	.38	.66	.46	.95	.49	52	2.8	21	169	42	.40
10	.49	.32	.66	.46	.99	.38	52	2.7	92	78	147	.24
11	.41	.40	.66	.49	.67	.25	52	3.6	97	36	222	.19
12	1.1	.64	.66	.44	.63	.27	52	3.4	95	34	217	.17
13	.36	.78	.66	.32	.66	.40	52	4.5	95	34	192	.17
14	.45	.65	.66	.33	.66	.72	52	5.7	94	40	192	.31
15	.38	.66	.66	.38	.46	1.1	52	9.7	91	88	192	.33
16	.48	.52	.66	.42	.49	1.5	53	12	116	174	225E	.26
17	.30	.49	.66	.38	.58	2.4	54	12	143	254	280E	.24
18	.23	.49	.66	.38	.42	2.9	54	14	160E	267	280E	1.2
19	.24	.44	.66	.40	.49	3.0	53	15	190E	284	283	1.4
20	.25	.49	.66	.37	.39	22	53	17	195E	360	280	1.4
21	.42	.49	.66	.30	.43	31	54	21	200E	363	248	1.3
22	.35	.49	.66	.29	.40	31	21	29	220E	350	223	1.4
23	.36	.49	.66	.32	.30	31	2.0	41	245E	317	222	1.8
24	1.1	.49	.66	.38	.41	31	1.9	46	251	183	217	1.5
25	.55	.42	.66	.38	.31	45	1.7	50	252	158	217	1.4
26	.30	.49	.71	.38	.25	54	2.0	66	251	121	200	1.8
27	.30	.47	.84	.38	.27	54	2.4	74	252	65	171	1.7
28	.30	.59	.66	.38	.31	54	2.2	97	253	33	160	1.9
29	.24	.71	.66	.38	-----	54	2.3	106	215E	30	160	2.2
30	.24	.46	.61	.38	-----	54	2.0	102	230E	30	157	13
31	.27	-----	.49	.38	-----	54	-----	97	-----	30	140	-----
TOTAL	12.35	14.11	19.04	12.09	13.91	532.81	1,153.5	847.0	4,097	5,417	4,910	419.35
MEAN	.40	.47	.61	.39	.50	17.2	38.5	27.3	137	175	158	14.0
MAX	1.1	.78	.84	.49	.99	54	54	106	253	363	283	126
MIN	.23	.30	.41	.29	.25	.25	1.7	1.6	15	30	30	.17
AC-FT	24	28	38	24	28	1,060	2,290	1,680	8,130	10,740	9,740	832
CAL YEAR 1997 TOTAL		21,843.78	MEAN	59.8	MAX	348	MIN	.16	AC-FT	43,330		
WTR YEAR 1998 TOTAL		17,448.16	MEAN	47.8	MAX	363	MIN	.17	AC-FT	34,610		

E indicates estimated daily discharge.

REPUBLICAN RIVER BASIN

CAMBRIDGE CANAL from Republican River, 00020000 - 1998

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 are furnished by United States Bureau of Reclamation.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	239	53	110
2									0	230	54	102
3									0	211	54	89
4									0	205	54	27
5									0	204	54	0
6									0	201	53	0
7									0	215	60	0
8									0	207	63	0
9									0	169	63	0
10									46	75	122	0
11									100	54	184	0
12									86	54	215	0
13									86	54	227	0
14									80	55	233	0
15									100	74	239	0
16									118	111	236	0
17									122	180	283	0
18									133	207	295	0
19									163	206	285	0
20									175	302	267	0
21									175	335	217	0
22									191	338	195	0
23									224	313	196	0
24									239	226	182	0
25									240	194	189	0
26									238	153	181	0
27									234	99	159	0
28									227	82	122	0
29					-----				247	75	110	0
30					-----				244	65	108	0
31		-----			-----		-----		-----	53	115	-----
TOTAL									3,468	5,186	4,868	328
MEAN									116	167	157	10.9
MAX									247	338	295	110
MIN									0	53	53	0
AC-FT									6,880	10,290	9,660	651
CAL YEAR 1997	MAX	289	MIN	0	AC-FT	29,540						
WTR YEAR 1998	MAX	338	MIN	0	AC-FT	27,470						

REPUBLICAN RIVER BASIN

MUDDY CREEK at Arapahoe, 06844000 - 1998

LOCATION.--NW1/4NW1/4 Sec. 22-4-23 W., Furnas County, Latitude 40° 18' 20", Longitude 99° 54' 40", on the left bank, 10 feet upstream from the bridge on U.S. Highways 6 and 34, 0.2 miles west of Arapahoe.

DRAINAGE AREA.--246 square miles.

GAGE.--Continuous stage recorder. Gage datum is 2,143.92 feet above sea level.

PERIOD OF RECORD.--1950 - 1972, 1977 - 1994, January 1, 1998 - present.

REMARKS.--Published by U. S. Geological Survey up to October 1, 1993. Nebraska Department of Water Resources also operated and published from October 1, 1993 to December 31, 1994. Records are good, except estimated records are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 10,800 cfs May 8, 1986, gage height 28.90 feet (also max. gage height for period); minimum daily discharge zero on Aug. 26, 1953.

EXTREMES FOR CURRENT YEAR.--Peak discharge 71 cubic feet per second May 23, gage height 5.93 feet; minimum daily discharge 4.4 cubic feet per second September 28.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				8.6E	8.8E	8.6	8.8	8.3	6.6	5.6	5.7	5.0
2				8.6E	8.6E	8.6	8.4	8.1	6.5	5.6	7.0	5.1
3				8.4E	8.6E	8.6E	8.3	7.9	6.5	5.5	7.3	5.0
4				8.4E	8.6E	8.9	8.3	7.8	6.6	5.3	8.3	4.8
5				8.4E	8.7	8.9	8.4	7.7	7.0	5.9	7.2	4.8
6				8.6E	8.9	9.0	8.7	7.7	6.8	6.4	6.6	4.8
7				8.6E	8.6	9.3	10	7.5	6.7	5.9	6.4	4.8
8				8.6E	8.9	9.4E	9.4	7.5	6.7	10	6.2	4.8
9				8.4E	9.1	9.4E	8.8	8.1	7.1	9.0	6.1	4.8
10				8.2E	10	9.2E	8.6	8.3	7.8	12	6.2	4.7
11				8.0E	10	9.2E	8.6	8.2	6.5	12	7.2	4.6
12				8.0E	10	9.0E	8.5	7.9	6.1	12	7.1	4.6
13				8.0E	9.2	9.4E	8.4	7.7	5.8	7.2	6.4	4.6
14				8.8E	9.0	9.7	8.6	7.9	5.7	6.5	6.2	4.7
15				9.6E	9.0	9.3	8.6	8.5	5.9	6.1	6.6	4.9
16				9.8E	9.4	9.2	8.6	8.9	6.1	5.9	6.0	4.9
17				9.6	9.5	9.4	8.4	8.1	6.0	6.1	5.9	4.8
18				9.5	9.6	9.5	8.5	7.5	5.6	6.4	5.7	4.8
19				9.7	9.5	9.3	8.6	7.4	5.7	6.3	5.5	4.7
20				9.5	9.0	8.7	8.6	7.1	5.7	5.7	5.2	4.6
21				9.2	8.8	8.6	8.4	6.8	5.6	5.4	5.5	4.5
22				9.1	8.9	8.6	8.3	7.4	5.8	5.5	5.7	4.6
23				8.5	8.9	8.6	8.3	45	5.8	5.6	5.4	4.7
24				8.4E	8.8	8.7	8.3	16	6.0	7.4	5.2	4.8
25				8.4E	8.8	8.8	8.3	9.9	6.0	6.9	5.2	4.9
26				8.5	8.7	9.0	8.2	8.4	5.7	8.8	5.4	4.8
27				8.6E	8.6	9.4	8.2	7.4	5.7	7.7	5.3	4.6
28				8.8E	8.7	9.6	8.1	7.0	5.6	7.1	5.2	4.4
29				8.8E	-----	9.2	8.5	6.6	5.5	6.5	5.0	4.5
30				8.8E	-----	8.7	8.3	6.6	5.7	8.5	5.0	4.7
31		-----		8.6E	-----	8.7	-----	6.7	-----	6.5	4.9	-----
TOTAL				271.0	253.2	280.5	256.0	285.9	184.8	221.3	186.6	142.3
MEAN				8.74	9.04	9.05	8.53	9.22	6.16	7.14	6.02	4.74
MAX				9.8	10	9.7	10	45	7.8	12	8.3	5.1
MIN				8.0	8.6	8.6	8.1	6.6	5.5	5.3	4.9	4.4
AC-FT				538	502	556	508	567	367	439	370	282
WTR YEAR 1998	TOTAL	2,081.6	MEAN	7.62	MAX	45	MIN	4.4	AC-FT	4,130		

E indicates estimated discharge. Summary values are for partial year January 1 to September 30.

REPUBLICAN RIVER BASIN

TURKEY CREEK at Edison, 06844210 - 1998

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

DRAINAGE AREA.--74.9 square miles.

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

PERIOD OF RECORD.--1977 - present

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

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 290 cubic feet per second May 22, gage height 7.76 feet; minimum daily discharge 5.7 cubic feet per second September 1.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	13	14	12	15	14	16	17	16E	10	9.8	5.7
2	7.3	12	13	12	14	14E	15	16	16	9.9	12	6.5
3	7.4	11	13	13	14	14	15	16	15	10	42	6.3
4	7.6	11	13	13 E	14	14	15	15	16	11	39	6.7
5	7.7	12	9.9	12 E	14	15	14	16	16	11	14	6.4
6	7.4	12	9.0E	11 E	14	14E	15	15	16	17	12	6.0
7	7.5	11	9.2E	9.0E	14E	14E	19	15	16	11	11	5.8
8	7.6	12	9.2E	9.6E	14	13E	19	14	17	11	11	5.9
9	7.8	12	9.4E	9.0E	14	13E	16	15	17	11	10	6.1
10	8.4	12	9.6E	8.4E	16	14E	15	17	16	18	10	6.1
11	8.4	12	9.4E	8.4E	17	13E	15	16E	16	45	10	6.3
12	14	12	9.5	8.8E	16	15	15	15E	16	13	10	6.3
13	62	12	12	8.6E	14	18	15	15E	15	11	9.8	6.6
14	15	13	14	8.4E	15	22	15	15E	15	11	9.1	6.8
15	10	11	15	10 E	15	18	16	15E	15	11	9.5	6.3
16	9.8	10	12	12 E	15	17	16	18E	15	13	8.7	7.7
17	9.7	12	12	14 E	15	17	15	20E	15	11	8.9	7.2
18	9.7	13	11	16	15	17	15	19E	14	10	7.8	7.2
19	9.5	14	12	16	14	17	16	18E	13	11	8.2	7.7
20	10	14	11	15	14	16	16	16E	13	12	8.1	7.7
21	10	16	11	15	14	16	15	15E	13	11	7.4	7.8
22	10	13	11	15	15	16	15	112E	13	10	6.8	7.9
23	10	13	11	15	14	16	15	125E	13	10	6.6	8.2
24	11	12	11	13 E	14	16	16	40E	13	11	6.1	8.4
25	14	12	11	15 E	14	16	16	28E	13	12	6.4	8.5
26	17	13	11	16	14	16	17	20E	13	18	6.2	8.3
27	12	13	11	16	15	19	16	16E	13	14	6.9	8.4
28	15	13	11	15	15	23	16	17E	12	9.6	6.8	8.3
29	13	15	11	15	-----	18	17	18E	12	9.8	6.5	8.4
30	13	16	11	15	-----	17	17	17E	11	19	6.6	9.2
31	13	-----	11	15	-----	16	-----	16E	-----	13	6.0	-----
TOTAL	372.2	377	348.2	391.2	408	498	473	747	434	405.3	333.2	216.7
MEAN	12.0	12.6	11.2	12.6	14.6	16.1	15.8	24.1	14.5	13.1	10.7	7.22
MAX	62	16	15	16	17	23	19	125	17	45	42	9.2
MIN	7.3	10	9.0	8.4	14	13	14	14	11	9.6	6.0	5.7
AC-FT	738	748	691	776	809	988	938	1,480	861	804	661	430
CAL YEAR 1997 TOTAL	5,059.3		MEAN	13.9	MAX	62	MIN	4.7	AC-FT	10,040		
WTR YEAR 1998 TOTAL	5,003.8		MEAN	13.7	MAX	125	MIN	5.7	AC-FT	9,930		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

BEAVER CREEK near Beaver City, 06847000 - 1998

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 USGS WSP 1310).

REMARKS.--Published by U. S. Geological Survey up to October 1, 1994. Records are fair, except estimated records and records below 5 cubic feet per second are poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 9,510 cubic feet per second June 14, 1983, gage height 15.68 ft.
No flow during many years.

EXTREMES FOR CURRENT YEAR.--Peak discharge 35 cubic feet per second August 2, gage height 3.87 feet; minimum daily discharge 0.17 cubic feet per second September 21.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	1.5	2.0	2.8	4.0	5.2	5.8	6.6	2.6	.65	2.3	.41
2	.68	1.5	2.2	2.9	4.1	5.0	5.6	6.6	2.4	.62	30	.40
3	.64	1.5	2.2	3.1	3.9	5.0	5.8	6.6	2.3	.61	19	.35
4	.63	1.5	2.2	2.8	4.2	4.7	5.9	6.5	2.3	.58	11	.33
5	.64	.83	2.1	3.0	4.0	5.3	5.8	6.3	2.3	.64	6.3	.31
6	.64	1.2	2.2	2.9	3.9	5.0	5.9	6.0	2.3	.62	4.1	.30
7	.63	1.6	2.2	2.7	4.3	5.1	7.4	5.8	2.3	.61	2.9	.32
8	.56	1.6	2.3	2.9	4.2	4.5	7.2	5.6	2.4	.91	6.5	.35
9	.70	1.6	2.3	2.7	4.5	4.4E	6.9	5.7	2.4	1.0	15	.30
10	.71	1.6	2.4	2.5	5.2	4.2E	6.6	5.7	2.4	1.6	11	.28
11	.75	1.5	2.3	2.5	5.3	4.5E	6.4	5.7	2.4	1.2	8.4	.29
12	1.2	1.5	2.3	2.6	4.9	4.7E	6.2	5.6	2.3	.84	11	.28
13	1.1	1.6	2.3	2.8	5.2	4.9	6.2	5.5	2.1	.74	12	.25
14	.97	1.6	2.3	3.0	5.5	5.1	6.1	5.4	2.0	.65	9.5	.28
15	.88	1.6	2.4	2.8	6.2	5.1	6.1	7.7	1.8	.59	7.0	.32
16	.80	1.5	2.5	2.8	5.7	5.4	6.4	5.7	1.7	.53	5.3	.34
17	.79	1.6	2.5	2.8	5.7	5.6	6.2	5.3	1.6	.49	4.1	.25
18	.88	1.6	2.4	2.9	5.7	5.8	6.1	4.9	1.4	.44	3.5	.24
19	.90	1.6	2.4	2.9	5.6	5.7	6.2	4.7	1.3	.46	2.6	.19
20	.90	1.6	2.5	3.3	5.6	5.6	6.2	4.5	1.2	.39	2.0	.19
21	.91	1.6	2.4	3.2	5.7	5.5	6.3	4.4	1.2	.39	1.7	.17
22	.90	1.7	2.4	3.2	6.1	6.0	6.3	4.4	1.2	.36	1.4	.19
23	.90	1.7	2.4	3.2	6.1	5.9	6.3	4.1	1.1	.43	1.1	.19
24	1.4	1.7	2.6	3.4	6.2	5.8	6.5	4.0	.97	.60	.86	.21
25	1.7	2.6	2.7	3.5	6.1	5.7	6.6	4.0	.91	.62	.79	.19
26	1.7	1.5	2.6	3.4	5.8	6.0	6.6	3.6	.85	1.1	.71	.20
27	1.5	1.6	2.5	3.5	5.4	6.4	6.4	3.4	.80	.87	.67	.21
28	1.5	1.7	2.8	3.6	5.4	6.6	6.3	3.3	.75	.66	.53	.22
29	1.5	2.1	2.8	3.7	-----	6.3	6.5	3.3	.70	.78	.49	.25
30	1.7	2.0	2.8	3.8	-----	6.3	6.6	3.0	.67	.98	.47	.29
31	1.7	-----	2.9	3.8	-----	6.1	-----	3.0	-----	1.2	.43	-----
TOTAL	31.12	47.33	74.9	95.0	144.5	167.4	189.4	156.9	50.65	22.16	182.65	8.10
MEAN	1.00	1.58	2.42	3.06	5.16	5.40	6.31	5.06	1.69	.71	5.89	.27
MAX	1.7	2.1	2.9	3.8	6.2	6.6	7.4	7.7	2.6	1.6	30	.41
MIN	.56	.83	2.0	2.5	3.9	4.2	5.6	3.0	.67	.36	.43	.17
AC-FT	62	94	149	188	287	332	376	311	100	44	362	16
CAL YEAR 1997 TOTAL		3,354.17	MEAN	9.19	MAX	255	MIN	.48	AC-FT	6,650		
WTR YEAR 1998 TOTAL		1,170.11	MEAN	3.21	MAX	30	MIN	.17	AC-FT	2,320		

E indicated estimated discharge.

REPUBLICAN RIVER BASIN

HARLAN COUNTY RESERVOIR near Republican City, 06849000 - 1998

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 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254,300	262,300	272,700	286,400	299,100	313,900	333,300	337,000	336,200	311,400	283,800	260,000
2	254,300	263,100	273,500	286,900	299,700	313,900	333,800	336,700	335,600	309,600	284,600	259,800
3	254,300	262,400	274,200	287,300	300,100	314,200	334,500	336,600	335,800	307,500	284,300	259,300
4	254,200	262,800	274,300	287,500	300,600	314,600	334,900	336,600	335,800	305,900	283,800	259,000
5	254,200	263,000	274,700	287,900	301,200	315,100	335,800	336,700	335,800	304,100	283,300	258,900
6	254,100	263,200	274,800	288,500	301,500	315,000	337,300	336,900	335,500	302,300	282,700	258,700
7	253,800	263,400	274,900	288,900	302,000	316,800	338,800	336,900	335,200	300,400	281,700	258,400
8	254,100	264,000	275,400	289,100	302,500	317,100	339,500	336,700	336,600	300,500	281,000	257,800
9	253,800	264,100	276,000	289,400	303,400	317,000	339,600	337,100	335,900	299,900	280,200	257,500
10	253,800	264,300	276,500	289,500	304,200	317,200	339,400	336,900	336,300	300,400	279,100	257,300
11	253,500	264,600	276,900	289,900	304,900	317,500	338,500	337,100	336,600	300,200	277,900	257,300
12	255,400	265,000	277,200	290,200	305,400	317,800	338,300	336,900	336,500	299,700	276,700	256,900
13	255,200	265,500	277,400	290,500	305,800	318,200	337,300	336,700	336,600	299,000	275,900	257,000
14	255,300	265,700	277,900	290,700	306,400	318,800	336,900	336,900	335,900	298,000	274,700	257,000
15	255,400	265,600	278,500	290,900	306,800	319,200	336,600	337,400	335,200	297,000	273,300	256,700
16	255,500	265,700	278,600	291,200	307,800	320,100	336,200	337,100	333,700	295,500	272,300	256,700
17	255,700	266,200	279,200	291,600	308,200	321,300	335,900	337,100	334,100	294,200	271,300	256,600
18	255,900	266,200	279,700	292,300	308,600	321,800	336,000	337,100	332,700	292,600	269,900	256,600
19	255,800	266,400	280,000	292,600	309,400	323,800	336,300	337,000	331,400	290,900	268,700	256,100
20	255,800	266,700	280,400	293,500	309,700	323,000	336,200	336,900	330,200	289,100	267,300	255,500
21	255,700	267,200	281,200	293,800	309,900	323,400	336,200	336,600	328,600	287,900	266,400	255,500
22	255,700	267,500	281,600	294,200	310,700	324,000	336,300	336,600	327,400	286,200	265,100	255,400
23	255,900	267,900	282,000	294,600	311,300	324,600	336,200	336,700	326,100	284,900	264,200	255,300
24	257,100	268,200	282,800	295,100	311,500	325,300	336,200	336,900	324,800	283,500	262,800	255,300
25	259,000	268,900	283,600	295,500	312,800	325,700	336,900	336,600	323,000	282,400	261,700	255,200
26	259,500	268,900	283,900	295,700	313,000	326,600	336,700	336,300	320,900	282,900	261,200	255,000
27	259,700	269,500	284,400	296,500	313,100	328,600	336,300	336,000	319,200	282,800	261,100	255,000
28	260,100	271,000	284,700	297,000	313,800	330,000	336,600	336,000	317,800	283,000	260,600	254,900
29	260,800	272,100	285,100	297,200	-----	331,400	336,900	336,300	315,600	283,200	260,500	255,200
30	261,200	272,300	285,500	298,000	-----	331,900	336,900	336,600	313,600	284,000	260,000	255,200
31	261,800	-----	285,800	298,600	-----	332,700	-----	336,500	-----	284,000	260,000	-----
MAX	261,800	272,300	285,800	298,600	313,800	332,700	339,600	337,400	336,600	311,400	284,600	260,000
MIN	253,500	262,300	272,700	286,400	299,100	313,900	333,300	336,000	313,600	282,400	260,000	254,900
CHANGE	7,518	10,505	13,510	12,757	15,184	18,957	4,143	-413	-22,820	-29,635	-24,007	-4,792
CAL YEAR 1997			MEAN	306,900	MAX	371,200	MIN	251,200				
WTR YEAR 1998			MEAN	295,600	MAX	339,600	MIN	253,500				

REPUBLICAN RIVER BASIN

NAPONEE CANAL from Republican River, 00105000 - 1998

LOCATION.--NE1/4NE1/4 Sec. 14-1-17 W. below Harlan County Dam

GAGE.--Sparling Meter

PERIOD OF RECORD.--1955 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	34	0	
2									0	33	0	
3									0	29	0	
4									0	34	0	
5									0	22	0	
6									0	25	0	
7									0	27	0	
8									0	15	0	
9									0	0	0	
10									0	0	0	
11									0	0	10	
12									0	0	24	
13									0	0	29	
14									0	0	34	
15									0	0	35	
16									0	13	34	
17									0	23	30	
18									7.0	28	23	
19									19	30	21	
20									28	30	21	
21									33	30	21	
22									34	25	21	
23									34	17	21	
24									34	6.0	21	
25									31	0	18	
26									29	0	14	
27									29	0	5.0	
28									31	0	0	
29					-----				33	0	0	
30					-----				34	0	0	
31		-----			-----		-----		-----	0	0	-----
TOTAL									376.0	411.0	382.0	
MEAN									12.5	13.3	12.3	
MAX									34	34	35	
MIN									0	0	0	
AC-FT									746	815	758	
CAL YEAR 1997 MAX		35	MIN	0	AC-FT	3,200						
WTR YEAR 1998 MAX		35	MIN	0	AC-FT	2,320						

REPUBLICAN RIVER BASIN

FRANKLIN CANAL from Republican River, 00053000 - 1998

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 are furnished by United States Bureau of Reclamation.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	251	115	75
2									0	249	118	120
3									0	248	119	120
4									0	248	98	120
5									0	250	95	120
6									0	251	133	120
7									0	241	147	108
8									0	217	160	51
9									0	154	175	0
10									0	90	226	0
11									0	16	253	0
12									0	0	254	0
13									0	84	254	0
14									0	152	254	0
15									108	189	253	0
16									158	224	252	0
17									166	247	252	0
18									195	255	252	0
19									204	255	252	0
20									213	254	251	0
21									245	254	250	0
22									277	252	250	0
23									299	252	249	0
24									305	228	252	0
25									304	197	255	0
26									304	167	225	0
27									304	107	178	0
28									303	22	110	0
29					-----				302	0	20	0
30					-----				302	0	0	0
31		-----			-----		-----		-----	61	0	-----
TOTAL									3,989	5,417	5,702	834
MEAN									133	175	184	27.8
MAX									305	255	255	120
MIN									0	0	0	0
AC-FT									7,910	10,740	11,310	1,650
CAL YEAR 1997	MAX	254	MIN	0	AC-FT	33,050						
WTR YEAR 1998	MAX	305	MIN	0	AC-FT	31,620						

REPUBLICAN RIVER BASIN

FRANKLIN PUMP CANAL from Republican River, 00054000 - 1998

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 are furnished by United States Bureau of Reclamation.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	45	0	
2									0	45	0	
3									0	56	0	
4									0	44	0	
5									0	43	0	
6									0	43	0	
7									0	37	0	
8									0	18	0	
9									0	0	2.5	
10									0	0	31	
11									0	0	36	
12									0	0	36	
13									0	0	37	
14									0	0	33	
15									0	0	21	
16									0	7.4	14	
17									0	16	15	
18									0	24	24	
19									0	31	27	
20									0	38	32	
21									0	41	38	
22									1.7	31	32	
23									7.8	28	27	
24									23	25	28	
25									31	7.7	28	
26									37	0	12	
27									40	0	0	
28									42	0	0	
29					-----				45	0	0	
30					-----				44	0	0	
31		-----			-----		-----		-----	0	0	-----
TOTAL									271.5	580.1	473.5	
MEAN									9.05	18.7	15.3	
MAX									45	56	38	
MIN									0	0	0	
AC-FT									539	1,150	939	
CAL YEAR 1997	MAX	46	MIN	0	AC-FT	3,030						
WTR YEAR 1998	MAX	56	MIN	0	AC-FT	2,630						

REPUBLICAN RIVER BASIN

THOMPSON CREEK at Riverton, 06851500 - 1998

LOCATION.--NW1/4NW1/4 Sec. 2-1-13 W., Franklin County, Lat. 40°05'21", Long. 98°45'38", on left bank 15 feet downstream from bridge on U. S. Highway 136, at west edge of Riverton, 240 feet upstream from Burlington Northern Railroad bridge, and 0.5 miles upstream from the mouth.

DRAINAGE AREA.--290 square miles; approximately 197 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 1,753.38 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1948 - 1956, Annual peaks 1962 - 1968, occasional low flow measurements 1961 -1968, 1968 - 1975, 1977 - present

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 12,200 cubic feet per second July 9, 1950 at gage height 13.22 feet; minimum daily discharge 6.5 cubic feet per second June 11, 1996.

EXTREMES FOR CURRENT YEAR.--Peak discharge 442 cubic feet per second November 29, gage height 6.69 feet; minimum daily discharge 12 cubic feet per second estimated March 13.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	32	68	19E	22	17	28	23	22	16	23	17
2	15	21	59	23E	21E	17	26	25	21	19	29	16
3	14	16	50E	24E	20E	17	28	24	22	18	26	14
4	15	15	40E	23E	20	18	27	23	23	20	25	16
5	16	15	34E	23E	20	20	27	23	23	23	24	16
6	15	15	35E	23E	20	22E	29	23	22	19	25	16
7	17	17	36E	22E	20	23E	110	22	22	24	25	16
8	19	17	36	21E	19	23E	167	22	23	29	24	16
9	18	19	34	19E	21	22E	72	24	23	49	24	16
10	18	18	33	18E	25	19E	48	22	23	68	25	15
11	20	20	31E	17E	28	16E	40	22	25	32	25	16
12	25	23	27E	16E	21	13E	41	22	24	24	21	14
13	22	22E	28	15E	21	12E	39	22	23	19	19	16
14	22	21E	28	17E	21	16E	39	23	23	23	23	17
15	22	21E	26	22E	21	20E	38	26	22	27	31	16
16	20	19E	25	24E	21	21E	37	24	20	27	32	16
17	19	22E	24E	25E	20	25	30	23	21	24	30	16
18	20	23	22E	26E	21	23	30	23	23	19	27	17
19	20	23	21E	23E	21	22	29	24	24	20	21	18
20	18	21	21E	20E	23	22	28	24	23	19	17	20
21	19	19	19E	17E	23	24	27	24	20	18	17	19
22	20	18	19E	16E	24	24	25	23	20	23	16	18
23	19	17	19E	14E	23	23	25	24	20	26	15	18
24	25E	17	19E	13E	22	24	24	24	20	30	15	18
25	33E	16	19E	16E	21	25	24	24	19	32	16	18
26	100E	14	18E	26E	21	26	22	22	18	78	51	17
27	23E	14	18E	24E	20	37	25	23	19	43	46	17
28	22E	14	18E	23E	17	39	27	22	19	34	35	17
29	23	270	18E	23E	-----	30	27	25	20	24	29	19
30	25	124	18E	22	-----	29	24	23	20	23	20	20
31	26	-----	18E	22	-----	29	-----	22	-----	21	18	-----
TOTAL	704	923	881	636	597	698	1,163	720	647	871	774	505
MEAN	22.7	30.8	28.4	20.5	21.3	22.5	38.8	23.2	21.6	28.1	25.0	16.8
MAX	100	270	68	26	28	39	167	26	25	78	51	20
MIN	14	14	18	13	17	12	22	22	18	16	15	14
AC-FT	1,400	1,830	1,750	1,260	1,180	1,380	2,310	1,430	1,280	1,730	1,540	1,000
CAL YEAR 1997 TOTAL		8,705	MEAN	23.8	MAX	270	MIN	13	AC-FT	17,270		
WTR YEAR 1998 TOTAL		9,119	MEAN	25.0	MAX	270	MIN	12	AC-FT	18,090		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

ELM CREEK at Amboy, 06852000 - 1998

LOCATION.--NE1/4NW1/4 Sec. 3-1-10 W., Webster County, Lat. 40°05'20", Long. 98°26'07", on left bank at downstream side of bridge on U. S. Highway 136, at east edge of Amboy, 400 feet east of Burlington Northern railroad track, 2.5 miles upstream from the mouth, 4.5 miles east of Red Cloud, and 5.5 miles west of Guide Rock.

DRAINAGE AREA.--39.2 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,659.07 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1948 - 1953, Annual peaks 1959, 1961 - 1977, occasional low flow measurements 1954 - 1977, 1977 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1993. Records are good, except estimated records 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 182 cubic feet per second November 30, gage height 10.38 feet; minimum daily discharge 7.6 cubic feet per second July 20.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	76	51	15	21	15	17	16	14	11	14	15
2	11	83	22	16	18	15	17	16	13	11	16	14
3	11	38	18	15	17	15	18	16	14	11	15	14
4	11	22	17	15	17	15	18	16	14	11	14	14
5	11	17	16	15	16	15	18	16	15	12	14	14
6	11	14	15	15	16	15	18	16	14	12	14	14
7	11	14	15	16	16	15	40	15	14	14	15	13
8	12	14	15	16	16	15	99	15	15	13	14	13
9	12	13	15	15	16	15	45	16	15	15	14	13
10	12	13	15	15	18	15	26	15	15	19	14	13
11	12	13	15	15	27	15	22	15	16	15	14	13
12	15	14	15	15	23	14E	21	15	15	15	14	13
13	14	14	15	16	19	16	19	15	15	14	16	12
14	12	13	15	17	17	17	19	15	15	14	15	11
15	12	13	15	16	17	17	18	19	15	13	13	14
16	12	13	15	16	16	16	18	17	14	13	13	14
17	12	13	15	16	16	18	17	15	14	10	12	14
18	12	13	14	16	16	18	17	15	14	8.7	11	13
19	12	13	15	16	15	17	17	14	13	7.8	8.9	14
20	12	13	14	16	15	17	17	14	13	7.6	8.5	14
21	12	13	14	16	15	18	17	14	10	9.1	11	12
22	12	13	15	16	15	18	17	14	12	13	11	12
23	12	13	15	16	15	18	17	14	11	16	10	12
24	13	13	15	16	15	19	17	14	9.0	16	11	12
25	19E	13	15	16	15	19	17	14	8.5	15	11	12
26	30E	13	15	17	15	19	16	14	10	20	42	11
27	24E	13	15	17	15	22	16	14	11	38	25	12
28	19	13	15	17	15	21	17	14	10	24	20	13
29	18	51	15	19	-----	19	17	13	11	16	16	14
30	18	145	15	23	-----	18	16	14	10	17	15	15
31	21	-----	15	24	-----	18	-----	14	-----	15	14	-----
TOTAL	436	736	511	509	472	524	668	464	389.5	446.2	455.4	394
MEAN	14.1	24.5	16.5	16.4	16.9	16.9	22.3	15.0	13.0	14.4	14.7	13.1
MAX	30	145	51	24	27	22	99	19	16	38	42	15
MIN	11	13	14	15	15	14	16	13	8.5	7.6	8.5	11
AC-FT	865	1,460	1,010	1,010	936	1,040	1,320	920	773	885	903	781
CAL YEAR 1997 TOTAL		5,840.0	MEAN	16.0	MAX	145	MIN	10	AC-FT	11,580		
WTR YEAR 1998 TOTAL		6,005.1	MEAN	16.5	MAX	145	MIN	7.6	AC-FT	11,910		

E indicates estimated discharge.

REPUBLICAN RIVER BASIN

COURTLAND CANAL from Republican River, 00031000 - 1998

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 are furnished by United States Bureau of Reclamation.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	81	427	357	145
2								0	96	462	356	129
3								0	131	482	366	129
4								0	182	484	364	127
5								0	202	497	366	127
6								0	202	509	367	127
7								0	202	492	368	127
8								0	202	479	367	138
9								0	202	484	366	130
10								0	202	456	368	108
11								0	202	425	365	101
12								0	202	414	360	104
13								0	202	411	359	104
14								0	202	405	320	96
15								0	203	402	303	92
16								0	198	407	303	0
17								0	196	435	300	0
18								0	256	412	300	0
19								0	282	399	297	0
20								0	310	405	296	0
21								0	322	397	296	0
22								0	328	427	263	0
23								0	331	450	248	0
24								0	327	456	248	0
25								0	290	461	217	0
26								21	289	458	214	0
27								51	376	452	209	0
28								53	395	440	203	0
29					-----			65	398	424	199	0
30					-----			72	415	378	197	0
31		-----			-----		-----	69	-----	359	183	-----
TOTAL								331	7,426	13,589	9,325	1,784
MEAN								10.7	248	438	301	59.5
MAX								72	415	509	368	145
MIN								0	81	359	183	0
AC-FT								657	14,730	26,950	18,500	3,540
CAL YEAR 1997	MAX	456	MIN	0	AC-FT	62,650						
WTR YEAR 1998	MAX	509	MIN	0	AC-FT	64,370						

REPUBLICAN RIVER BASIN

SUPERIOR CANAL from Republican River, 00137000 - 1998

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 are furnished by United States Bureau of Reclamation.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	129	0	11
2									0	128	0	0
3									0	128	0	0
4									0	130	0	0
5									0	126	0	0
6									0	106	0	0
7									0	120	0	0
8									0	120	61	0
9									0	122	89	0
10									0	109	107	0
11									0	100	113	0
12									0	98	112	0
13									0	96	113	0
14									0	102	113	0
15									49	114	110	0
16									71	117	107	0
17									89	123	106	0
18									98	124	105	0
19									116	123	105	0
20									134	124	105	0
21									136	123	97	0
22									138	135	88	0
23									140	138	87	0
24									138	133	87	0
25									135	125	80	0
26									134	110	73	0
27									132	58	65	0
28									131	0	49	0
29					-----				135	0	38	0
30					-----				136	0	33	0
31		-----			-----		-----		-----	0	33	-----
TOTAL									1,912	3,161	2,076	11
MEAN									63.7	102	67.0	.37
MAX									140	138	113	11
MIN									0	0	0	0
AC-FT									3,790	6,270	4,120	22
CAL YEAR 1997	MAX	141	MIN	0	AC-FT	12,310						
WTR YEAR 1998	MAX	140	MIN	0	AC-FT	14,200						

BIG BLUE RIVER BASIN

BIG BLUE RIVER at Surprise, 06879900 - 1998

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

DRAINAGE AREA.--345 square miles.

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

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

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1993. Records are good, except estimated records 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 580 cubic feet per second May 24, gage height 4.17 feet; minimum daily discharge 0.21 cubic feet per second October 1.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	9.3	7.5	4.7	6.1	3.2E	15	12	16	11	7.2	4.1
2	.22	11	5.6	4.5	5.9	3.3E	12	11	13	11	9.8	3.9
3	.49	12	5.0	3.7E	4.7E	3.5E	9.9	10	11	12	8.9	3.8
4	.61	10	4.0	3.1E	4.6E	3.4E	8.6	9.9	11	13	5.9	3.8
5	.75	9.6	3.3	2.8E	4.4E	3.5E	8.3	9.1	10	16	6.2	4.0
6	.78	8.3	3.5	3.4E	4.5E	3.6E	7.9	8.7	9.6	15	5.6	4.1
7	.64	6.8	3.5	3.6E	5.0E	3.7E	51	8.6	9.6	13	6.2	4.0
8	.93	5.2	3.7	3.0E	6.1	3.4E	112	8.1	87	13	5.4	3.0
9	.79	4.4	3.7	2.5E	6.4	2.6E	82	7.9	172	11	6.4	2.7
10	1.0	4.0	3.4	2.2E	6.3	2.5E	50	8.2	75	9.9	6.5	2.0
11	1.3	3.8	3.1	2.3E	6.2	2.4E	48	7.5	44	9.6	5.9	2.1
12	3.0	3.6	3.1	2.2E	5.5	2.3E	43	7.8	33	10	8.5	2.2
13	3.9	3.8	3.2	2.1E	5.9	3.3E	30	7.5	25	11	7.6	2.1
14	3.0	3.8	3.4	2.4E	5.7	3.5E	24	7.7	131	8.9	7.9	2.3
15	2.4	3.6	3.4	2.7E	5.3	3.6E	37	8.2	90	9.5	6.8	2.4
16	2.3	3.5	3.5	2.9E	5.7	4.0E	66	8.4	127	8.4	3.3	2.3
17	1.7	3.6	3.4	3.2E	5.9	4.5E	39	8.7	160	8.7	4.2	2.3
18	1.8	3.9	3.7	3.4E	5.6	4.8E	28	8.5	86	8.5	4.9	2.5
19	1.9	3.9	3.6	3.5E	5.2	4.9E	23	8.0	46	7.7	5.7	2.5
20	2.2	3.9	3.6	3.6E	4.9	5.0E	18	19	35	7.0	4.0	2.3
21	2.4	3.9	3.2	3.6E	4.7	5.4E	15	14	33	7.5	43	2.4
22	2.1	3.8	3.6	3.7E	4.6	5.8E	13	392	25	6.1	32	2.5
23	2.3	3.8	3.8	3.7E	4.2	6.6E	13	413	22	12	10	2.4
24	2.7	3.6	4.3	3.8E	4.0	7.1	12	535	18	10	6.0	2.1
25	16	3.8	3.9	4.2E	4.2	8.1	12	481	18	8.2	4.8	2.3
26	25	3.8	3.4	4.6E	4.1	9.7	12	335	15	10	4.8	2.7
27	23	3.7	3.5	5.5E	4.0E	14	12	188	14	9.1	5.3	2.7
28	15	3.2	4.0	6.8E	3.4E	44	12	64	12	8.1	5.9	2.8
29	18	5.3	3.6	9.1	-----	48	13	37	11	7.1	4.6	3.0
30	17	11	3.9	10	-----	30	12	27	11	7.5	4.0	3.3
31	10	-----	3.6	8.7	-----	20	-----	20	-----	7.0	4.0	-----
TOTAL	163.42	163.9	118.0	125.5	143.1	269.7	838.7	2,690.8	1,370.2	306.8	251.3	84.6
MEAN	5.27	5.46	3.81	4.05	5.11	8.70	28.0	86.8	45.7	9.90	8.11	2.82
MAX	25	12	7.5	10	6.4	48	112	535	172	16	43	4.1
MIN	.21	3.2	3.1	2.1	3.4	2.3	7.9	7.5	9.6	6.1	3.3	2.0
AC-FT	324	325	234	249	284	535	1,660	5,340	2,720	609	498	168
CAL YEAR 1997 TOTAL		2,332.32	MEAN	6.39	MAX	71	MIN	.21	AC-FT	4,630		
WTR YEAR 1998 TOTAL		6,526.02	MEAN	17.9	MAX	535	MIN	.21	AC-FT	12,940		

E indicates estimated discharge.

BIG BLUE RIVER BASIN

LINCOLN CREEK near Seward, 06880000 - 1998

LOCATION.--NW1/4NE1/4 Sec. 24-11-2 E., Seward County, Lat. 40° 54' 57", Long. 97° 08' 43", on left bank at downstream side of county road bridge, 2 miles west of Seward, and 3.8 miles upstream from mouth.

DRAINAGE AREA.--438 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,429.27 feet above sea level.

PERIOD OF RECORD.--1953 - 1973, March 1974 - present. Month discharge only for some periods, published in WSP 1730.

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 10,100 cubic feet per second June 17, 1957, gage height 20.53 feet; minimum daily discharge 1.3 cubic feet per second July 31, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharge 2,730 cubic feet per second May 22, gage height 19.03 feet; minimum daily discharge 15 cubic feet per second October 8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	54	43	26	30	28	58	42	67	48	31	22
2	22	44	39	28	29	27	53	42	62	46	31	21
3	20	46	40	26E	28	27	47	41	59	45	33	21
4	18	42	39E	26E	27E	27	42	40	55	44	33	20
5	16	40	37E	26	26E	27	40	40	55	46	32	20
6	16	39	34E	26	27E	27	39	40	53	49	31	21
7	16	34	33E	26	29	27E	281	41	52	56	32	21
8	15	31	32E	26	29	27E	302	40	67	52	33	19
9	16	29	31E	26E	29	26E	171	39	172	49	31	19
10	16	26	31E	24E	30	25E	117	38	161	47	28	19
11	16	25	30E	26E	30	25E	102	37	112	45	27	19
12	17	25	29E	25E	30	24E	95	37	99	47	27	20
13	19	25	28E	23E	29	31E	84	37	68	48	27	20
14	18	25	28E	25E	30	29E	70	36	1,040	48	25	21
15	18	24E	29E	27E	30	30E	78	35	1,040	45	27	21
16	18	23E	29E	28E	31	30E	68	35	309	42	27	21
17	17	23E	29E	29E	31	31E	68	34	195	40	28	21
18	20	24E	28E	27E	31	31	65	33	191	36	29	21
19	22	24E	29E	28E	31	31	58	33	160	35	28	22
20	19	25E	28E	28E	30	30	51	37	134	34	25	22
21	18	26	28E	29E	30	34	49	45	96	35	31	20
22	17	26	26E	28E	29	37	49	1,660	76	60	45	19
23	17	26	26E	27E	29	37	47	2,200	69	49	35	19
24	17	26	27E	31E	28	36	46	1,620	69	43	30	20
25	22	26	27E	36E	28	42	46	734	60	39	28	22
26	27	26	27E	43E	28	50	44	361	56	40	27	22
27	29	26	26E	49	28	56	42	301	53	38	26	22
28	30	26	24E	36	28	94	41	263	51	38	25	22
29	37	41	26E	37	-----	104	42	138	50	36	24	23
30	60	78	26E	33	-----	75	42	90	51	42	24	23
31	69	-----	27E	31	-----	65	-----	77	-----	32	23	-----
TOTAL	706	955	936	906	815	1,190	2,337	8,246	4,782	1,354	903	623
MEAN	22.8	31.8	30.2	29.2	29.1	38.4	77.9	266	159	43.7	29.1	20.8
MAX	69	78	43	49	31	104	302	2,200	1,040	60	45	23
MIN	15	23	24	23	26	24	39	33	50	32	23	19
AC-FT	1,400	1,890	1,860	1,800	1,620	2,360	4,640	16,360	9,490	2,690	1,790	1,240
CAL YEAR 1997 TOTAL		12,640	MEAN	34.6	MAX	478	MIN	14	AC-FT	25,070		
WTR YEAR 1998 TOTAL		23,753	MEAN	65.1	MAX	2,200	MIN	15	AC-FT	47,110		

E indicates estimated discharge.

BIG BLUE RIVER BASIN

BIG BLUE RIVER at Seward, 06880500 - 1998

LOCATION.--SE1/4SW1/4 Sec. 20-11-3 E., Seward County, Lat. 40° 54' 10", Long. 97° 06' 40", at downstream end of right abutment of bridge on U.S. Highway 34 at west edge of Seward, 1.7 miles upstream of Plum Creek, and 0.2 mile downstream from Lincoln Creek.

DRAINAGE AREA.--1,107 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,421.49 feet above sea level.

PERIOD OF RECORD.--1954 - present. Monthly discharge only for some periods, published in WSP 1730.

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 15,300 cubic feet per second June 18, 1957, gage height 22.34 feet; no flow July 30-31, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharge 3,970 cubic feet per second May 23, gage height 19.54 feet; minimum daily discharge 24 cubic feet per second October 5-8.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	201	115	53	103	58E	218	108	144	107	62	39
2	34	145	103	59	98	56E	189	110	132	103	60	38
3	30	114	87	56E	90E	54E	158	106	126	91	63	36
4	27	97	76E	43E	68E	54E	135	104	121	90	62	35
5	24	85	56E	50E	62E	54E	122	101	121	92	64	34
6	24	79	54E	56E	64E	52E	114	98	122	97	65	34
7	24	67	64E	60	66E	42E	698	99	117	112	65	35
8	24	60	66E	52E	68E	39E	1,160	98	153	117	63	33
9	25	54	65	49E	70	38E	820	96	560	126	58	33
10	26	51	65	48E	72	39E	640	93	948	110	55	34
11	25	48	63	50E	73	39E	450	91	667	99	52	33
12	30	45	57	49E	72	36E	309	92	557	98	51	32
13	36	43	54	47E	70	37E	244	92	319	94	51	31
14	35	42	58	49E	71	45E	193	97	1,950	92	48	31
15	39	39E	60	56E	72	49E	216	101	2,500	83	50	31
16	41	31E	62	60E	72	54E	403	97	1,380	74	50	31
17	38	37E	59	62E	74	58E	327	96	666	68	47	32
18	36	39E	60	58E	78	60E	267	94	567	62	44	32
19	39	41E	62	54E	77	60E	186	91	437	65	42	34
20	35	42	61	58E	75	62	147	108	317	57	36	36
21	32	42	60	62E	71	71	131	116	227	53	45	35
22	31	42	56E	66E	69	87	121	2,450	179	110	192	35
23	33	42	58E	64E	67	105	113	3,700	166	96	385	34
24	34	42	58E	66E	65	122	107	2,540	164	88	168	34
25	40	41	54E	70E	63	130	105	1,520	177	81	95	35
26	64	40	48E	74E	62	171	103	939	153	80	72	34
27	104	39	54E	83	61	291	102	775	130	76	61	35
28	137	39	58E	96	58E	413	101	602	122	75	54	35
29	133	87	57	99	-----	410	103	409	116	74	48	36
30	168	233	56	100	-----	312	104	210	114	82	46	35
31	211	-----	54	116	-----	249	-----	162	-----	70	42	-----
TOTAL	1,617	2,007	1,960	1,965	2,011	3,347	8,086	15,395	13,452	2,722	2,296	1,022
MEAN	52.2	66.9	63.2	63.4	71.8	108	270	497	448	87.8	74.1	34.1
MAX	211	233	115	116	103	413	1,160	3,700	2,500	126	385	39
MIN	24	31	48	43	58	36	101	91	114	53	36	31
AC-FT	3,210	3,980	3,890	3,900	3,990	6,640	16,040	30,540	26,680	5,400	4,550	2,030
CAL YEAR 1997 TOTAL		25,797	MEAN	70.7	MAX	551	MIN	22	AC-FT	51,170		
WTR YEAR 1998 TOTAL		55,880	MEAN	153	MAX	3,700	MIN	24	AC-FT	110,800		

E indicates estimated discharge.

BIG BLUE RIVER BASIN

TURKEY CREEK near Wilber, 06881200 - 1998

LOCATION.--NE1/4NE1/4 Sec. 19-6-4 E., Saline County, Lat. 40° 28' 48", Long. 97° 00' 43", on left bank near downstream side of bridge on State Highway 41, 2.8 miles west of Wilber.

DRAINAGE AREA.--461 square miles.

GAGE.--Continuous stage recorder. Gage datum 1322.00 feet above sea level.

PERIOD OF RECORD.--1959 - present

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1994. Records are good, except estimated records are poor, and November 18-20 fair.

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 5,320 cubic feet per second July 30, gage height 16.95 feet; minimum daily discharge 9.1 cubic feet per second October 6.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	137	1,010	32E	570	28	197	52	31	38	1,090	40
2	12	432	1,140	37E	509	27	135	53	29	34	1,260	31
3	11	464	683	40	194	27	139	50	27	32	1,560	26
4	9.7	334	274	31E	150	27	104	48	27	29	692	23
5	9.3	173	135E	33E	77	27	79	44	26	30	266	21
6	9.1	82	78E	35E	56E	27	66	44	26	27	181	20
7	9.2	46	50E	34E	48E	26E	181	41	26	38	149	19
8	9.2	30	38E	33E	38E	26E	558	39	31	43	128	18
9	9.4	19E	33E	29E	37	25E	1,340	37	43	39	122	17
10	9.3	14E	31E	25E	46	24E	1,440	37	73	525	88	16
11	10	14E	30E	26E	52	22E	680	37	326	451	73	16
12	11	12E	25E	24E	48	16E	313	38	585	421	63	16
13	12	13E	27E	19E	46	14E	195	40	328	312	56	15
14	14	14E	29E	19E	49	20E	137	41	653	440	50	15
15	15	14E	31E	20E	49	19E	118	36	1,220	323	45	15
16	19	12E	32E	21E	49	21E	98	36	1,140	134	41	15
17	22	15E	31E	21E	44	24E	82	36	506	74	37	15
18	17	19E	32E	18E	39	28E	74	33	343	53	35	14
19	14	21E	34E	19E	37	33E	67	40	218	42	32	16
20	13	24E	34E	19E	35	36E	62	40	129	36	30	694
21	13	26	31E	21E	33	62	58	33	93	30	26	1,190
22	13	24	34E	22E	33	135	55	34	76	36	27	1,570
23	12	24	34E	19E	32	140	53	36	68	95	31	1,910
24	13	23	33E	18E	32	142	51	47	63	54	31	353
25	13	23	31E	19E	31	183	50	38	62	37	30	175
26	12 E	22	30E	21E	30	264	49	58	55	32	28	125
27	11 E	22	25E	26E	30	446	46	46	52	42	75	98
28	12	22	27E	30E	29	659	45	37	47	42	131	82
29	15	172	29E	38E	-----	688	47	35	41	60	185	72
30	58	670	30E	49	-----	560	49	34	38	4,140	129	59
31	103	-----	30E	52	-----	332	-----	32	-----	2,410	64	-----
TOTAL	522.2	2,917	4,111	850	2,423	4,108	6,568	1,252	6,382	10,099	6,755	6,696
MEAN	16.8	97.2	133	27.4	86.5	133	219	40.4	213	326	218	223
MAX	103	670	1,140	52	570	688	1,440	58	1,220	4,140	1,560	1,910
MIN	9.1	12	25	18	29	14	45	32	26	27	26	14
AC-FT	1,040	5,790	8,150	1,690	4,810	8,150	13,030	2,480	12,660	20,030	13,400	13,280
CAL YEAR 1997 TOTAL	22,434.10		MEAN	61.5	MAX	1,340	MIN	7.5	AC-FT	44,500		
WTR YEAR 1998 TOTAL	52,683.20		MEAN	144	MAX	4,140	MIN	9.1	AC-FT	104,500		

E indicates estimated discharge.

BIG BLUE RIVER BASIN

BIG BLUE RIVER at Beatrice, 06881500 - 1998

LOCATION.--SW1/4NW1/4 Sec. 3-3-6 E., Gage County, Lat. 40° 15' 22", Long. 96° 44' 47", at the left upstream side of U.S. Highway 77 bridge, which is 6th street in Beatrice.

DRAINAGE AREA.--3,900 square miles, approximately 3,830 square miles contributes to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 1,219.90 feet above mean sea level.

PERIOD OF RECORD.--1910 - 1915, (Month discharge only for some periods, published in WSP 1310). 1954, 1960 - 1965, 1967 - 1969, 1971 - 1974 (discharge measurements only), 1974 - present. Gage height records collected 1905 - 1910, 1916 - 1974, are in reports of U.S. Weather Bureau.

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

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 55,100 cubic feet per second June 14, 1984, gage height 31.27 feet; minimum daily discharge 20 cubic feet per second August 15, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge 7,450 cubic feet per second June 18, gage height 13.92 feet; minimum daily discharge 187 cubic feet per second October 11.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	352	1,100	2,950	337	2,200	378	1,800	598	1,650	598	4,010	392
2	320	956	2,670	421	4,340	360E	1,460	594	1,160	553	1,980	332
3	287	1,320	2,530	517	2,600	360E	1,250	572	1,050	511	2,120	296
4	259	1,380	1,960	443	1,290	350E	1,110	559	783	488	2,470	292
5	236	1,220	1,410	407	818	370E	977	547	640	964	1,630	290
6	223	977	989	410	648	370E	853	526	573	553	1,350	281
7	212	775	720E	377	538	360E	1,990	512	542	893	1,110	273
8	202	622	600E	358	473	340E	3,050	499	700	626	863	263
9	202	524	520E	349	451	310E	5,540	486	662	567	739	252
10	205	448	490E	330E	751	310E	5,660	459	760	1,400	647	235
11	187	404	430E	320E	1,250	290E	4,120	449	1,440	2,220	545	234
12	222	369	400E	310E	921	270E	2,750	454	2,520	1,650	486	231
13	241	347	380E	300E	657	300E	2,080	449	2,460	1,310	438	225
14	219	334	370E	310E	549	370E	1,660	440	3,330	1,010	414	214
15	234	310E	365	340E	509	380E	1,390	625	4,750	1,220	401	198
16	255	290E	366	390E	505	430E	1,200	638	6,580	1,270	380	200
17	256	280	393	380E	490	540E	1,060	474	7,210	1,050	356	195
18	259	285	414	380E	461	640E	1,120	434	7,090	706	355	233
19	249	293	435	370E	443	747	1,050	422	3,630	502	322	238
20	236	297	420	340E	427	784	942	422	2,640	411	301	532
21	236	298	403	330E	406	932	851	431	1,870	361	287	1,660
22	243	301	405	340E	389	1,570	772	448	1,350	460	275	1,820
23	239	296	398	330E	395	1,770	726	513	1,550	548	292	1,860
24	233	294	392	340E	407	1,460	686	2,390	1,210	867	379	1,870
25	308	283	390E	340E	388	1,460	652	4,190	923	730	597	904
26	586	281	370E	350E	384	1,640	634	4,290	836	629	570	702
27	474	264	350E	360E	380	2,020	615	2,830	869	697	488	572
28	432	262	350E	370E	381	3,610	620	2,040	1,340	648	638	430
29	595	1,160	350E	450E	-----	3,180	609	1,740	812	591	867	378
30	892	2,990	345	450E	-----	2,670	602	2,290	686	1,470	679	341
31	1,230	-----	336	476	-----	2,260	-----	3,260	-----	4,570	506	-----
TOTAL	10,324	18,960	22,901	11,525	23,451	30,831	47,829	34,581	61,616	30,073	26,495	15,943
MEAN	333	632	739	372	838	995	1,594	1,116	2,054	970	855	531
MAX	1,230	2,990	2,950	517	4,340	3,610	5,660	4,290	7,210	4,570	4,010	1,870
MIN	187	262	336	300	380	270	602	422	542	361	275	195
AC-FT	20,480	37,610	45,420	22,860	46,520	61,150	94,870	68,590	122,200	59,650	52,550	31,620
CAL YEAR 1997 TOTAL		228,885	MEAN	627	MAX	8,450	MIN	165	AC-FT	454,000		
WTR YEAR 1998 TOTAL		334,529	MEAN	917	MAX	7,210	MIN	187	AC-FT	663,500		

E indicates estimated discharge.

LITTLE BLUE RIVER BASIN

BIG SANDY CREEK at Alexandria, 06883940 - 1998

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

DRAINAGE AREA.--607 square miles.

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

PERIOD OF RECORD.--1979 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,660 cubic feet per second February 1, gage height 7.49 feet; minimum daily discharge 12 cubic feet per second July 3.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1997 TO SEP 1998

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	528	381	21	976	29	99	29	25	13	89	62
2	19	416	226	49	237	30	80	26	24	15	446	52
3	19	254	155E	118	99	29	61	26	23	12	734	41
4	19	159	125E	41	63	29	44	27	24	13	689	31
5	21	130	88E	58	54	28	36	26	24	15	613	27
6	21	121	74E	63	45	28	30	26	22	13	613	24
7	21	109	68E	43	36	27E	613	26	21	16	577	24
8	21	83	62E	34	32	27E	1,100	26	46	16	484	25
9	21	63	56E	30	31	26E	678	27	33	13	422	24
10	21	52	47E	25E	59	25E	337	27	26	154	379	22
11	18	47	37E	22E	71	25E	307	29	25	160	236	22
12	19	40	32E	22E	68	24E	260	32	22	76	122	21
13	18	35	31	21E	59	23E	184	29	21	148	85	19
14	19	32	29	21E	51	24	126	27	29	245	67	21
15	19	29	25	22E	49	25	90	26	23	191	60	37
16	18	25	25	22E	55	25	69	27	44	188	55	27
17	19	25	24	22	49	28	64	26	42	156	50	21
18	18	23	24E	22	44	28	53	30	55	105	47	20
19	17	23	26E	23	40	28	46	26	83	67	44	20
20	19	22	25E	24	34	27	40	28	73	43	45	150
21	19	19	24E	24	32	32	36	29	50	37	47	64
22	18	18	26E	24	30	127	34	31	36	174	44	34
23	18	17	26E	24	29	136	33	30	29	183	43	27
24	19	17	25E	25	29	86	32	29	26	139	39	25
25	22E	16	23E	24	27	173	30	29	23	223	39	24
26	28E	15	21E	25	29	214	29	29	19	435	151	23
27	34E	14	20E	26	30	340	29	28	18	376	264	24
28	44E	15	21E	30	30	516	32	25	15	149	231	23
29	70E	65	21	31	-----	328	32	28	14	87	190	23
30	328	369	21	32	-----	184	29	27	14	70	124	22
31	667	-----	20	33	-----	121	-----	25	-----	52	82	-----
TOTAL	1,654	2,781	1,808	1,001	2,388	2,792	4,633	862	929	3,594	7,111	979
MEAN	53.4	92.7	58.3	32.3	85.3	90.1	154	27.8	31.0	116	229	32.6
MAX	667	528	381	118	976	516	1,100	32	83	435	734	150
MIN	17	14	20	21	27	23	29	25	14	12	39	19
AC-FT	3,280	5,520	3,590	1,990	4,740	5,540	9,190	1,710	1,840	7,130	14,100	1,940
CAL YEAR 1997 TOTAL		38,055	MEAN	104	MAX	6,400	MIN	13	AC-FT	75,480		
WTR YEAR 1998 TOTAL		30,532	MEAN	83.6	MAX	1,100	MIN	12	AC-FT	60,560		

E indicates estimated discharge.

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