



**1996**

**HYDROGRAPHIC REPORT**

**STATE OF NEBRASKA**

**DEPARTMENT OF WATER RESOURCES**



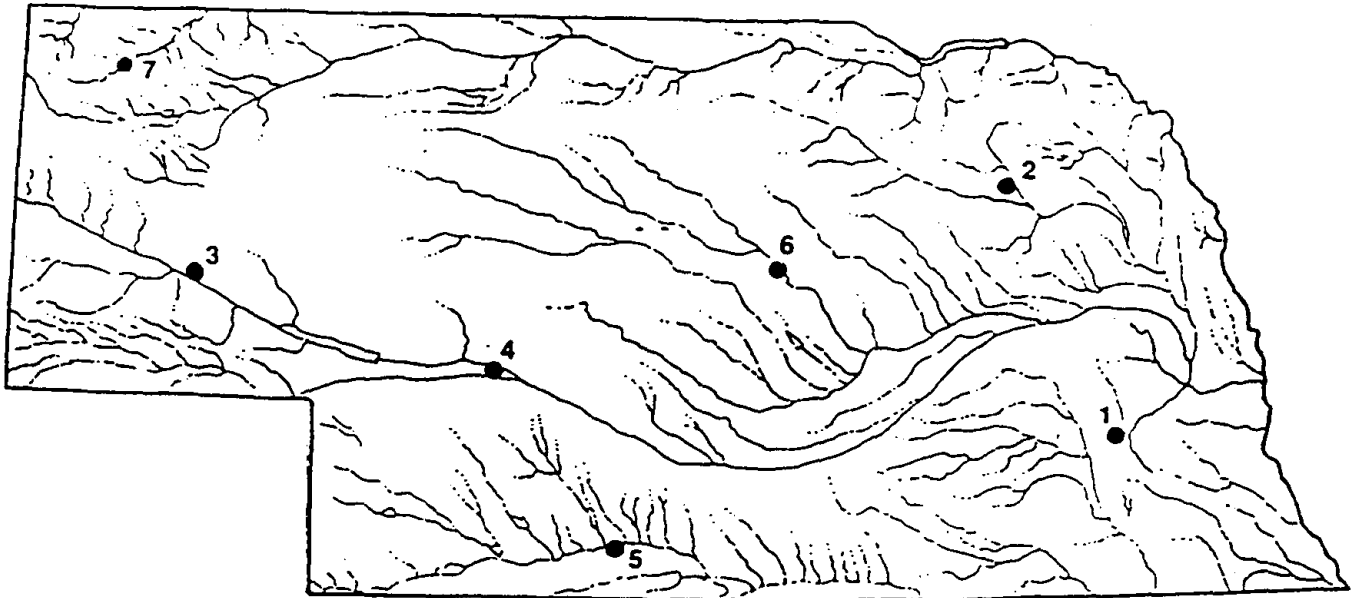
**STATE OF NEBRASKA**

**DEPARTMENT OF WATER RESOURCES**

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

**1996**

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



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# HYDROGRAPHIC REPORT

1996

## INTRODUCTION and EXPLANATION OF DATA

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

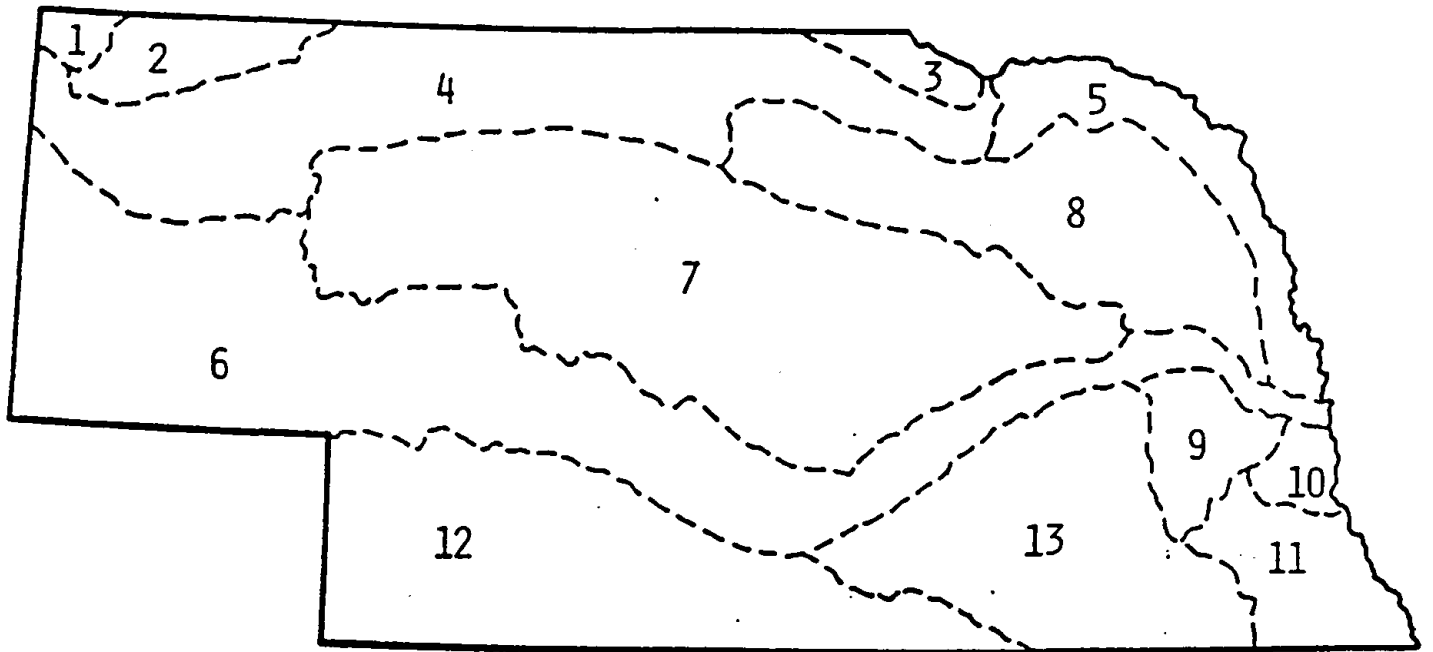
The Hydrographic Report for calendar year 1996 provides a record of stream flow, reservoir storage, and diversions for irrigation and power in Nebraska according to statutory authority granted under Statutes 46-212, 46-227, and 46-234. Stations are listed in order from upstream to downstream (downstream order) according to the river basin map on the next page. Multiple gages on a canal system are also in downstream order on the canal. The data presented include mean daily discharges for streams and canals and both daily and monthly reservoir storage values. Instantaneous and daily discharge values are expressed in cubic feet per second (cfs), monthly and annual totals are cubic foot per second-days (cfs-days) and acre-feet. Reservoir storage values are in acre-feet. Zero means there is no flow, a blank indicates no record was made. An "E" next to a daily record indicates an estimated value. Estimated values usually result from either a poor stage-discharge relationship due to a backwater condition or a missing or poor gage height record. Headings describe the period of record, type of gage and locations of gage sites by legal coordinates of Section, Township, and Range, East or West of the 6th Principal Meridian. The "Remarks" section for stations operated year round includes a statement on the accuracy of daily records. U.S. Geological Survey criteria are adopted for these accuracy ratings: If 95 percent of daily discharges are within 5 percent of true values the record is rated "excellent," if they are within 10 percent, the rating is "good," within 15 percent is "fair," and less than 15 percent is "poor."

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

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

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

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



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

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



**1996**

**HYDROGRAPHIC REPORT**

# WHITE RIVER BASIN

## WHITE RIVER at Crawford, 06444000 - 1996

LOCATION.--SE1/4NW1/4 Sec. 3-31-52 W., Dawes County, Lat. 42° 41' 33", Long. 103° 25' 03", on right bank 15 feet downstream from bridge in city park at Crawford.

DRAINAGE AREA.--313 square miles.

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

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991.  
E indicates estimated daily discharge. Estimated records January 2,3, 5-8, 18-31, February 1-9, 27-29, March 1-10, November 23, 24, 27, 28, December 12-31. Records good, except estimated records 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 268 cubic feet per second July 27, gage height 4.78 feet; minimum daily discharge 11 cubic feet per second August 21-23.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|-------|-------|-------|-------|-------|-------|------|-------|--------|-------|-------|
| 1         | 21    | 23E   | 20E   | 23    | 23    | 24    | 16    | 18   | 14    | 14     | 19    | 21    |
| 2         | 22E   | 22E   | 20E   | 23    | 24    | 23    | 16    | 16   | 14    | 14     | 19    | 21    |
| 3         | 22E   | 23E   | 22E   | 22    | 24    | 22    | 15    | 16   | 14    | 15     | 19    | 20    |
| 4         | 21    | 23E   | 22E   | 21    | 23    | 23    | 15    | 15   | 15    | 15     | 19    | 19    |
| 5         | 23E   | 23E   | 22E   | 21    | 24    | 23    | 18    | 15   | 13    | 15     | 19    | 22    |
| 6         | 24E   | 30E   | 22E   | 21    | 22    | 27    | 16    | 13   | 14    | 14     | 19    | 20    |
| 7         | 24E   | 40E   | 24E   | 22    | 22    | 24    | 17    | 13   | 15    | 15     | 19    | 21    |
| 8         | 25E   | 45E   | 26E   | 22    | 23    | 23    | 16    | 13   | 16    | 15     | 19    | 21    |
| 9         | 23    | 40E   | 26E   | 22    | 28    | 22    | 16    | 14   | 14    | 15     | 20    | 21    |
| 10        | 23    | 29    | 26E   | 21    | 30    | 21    | 17    | 13   | 14    | 15     | 19    | 21    |
| 11        | 23    | 25    | 27    | 21    | 26    | 21    | 16    | 13   | 12    | 15     | 19    | 22    |
| 12        | 23    | 25    | 26    | 27    | 25    | 21    | 15    | 12   | 13    | 14     | 19    | 21E   |
| 13        | 24    | 24    | 26    | 29    | 24    | 22    | 16    | 12   | 14    | 14     | 20    | 20E   |
| 14        | 22    | 24    | 24    | 29    | 22    | 21    | 19    | 13   | 15    | 14     | 22    | 20E   |
| 15        | 21    | 24    | 24    | 27    | 23    | 19    | 18    | 14   | 15    | 15     | 22    | 21E   |
| 16        | 22    | 25    | 24    | 25    | 25    | 20    | 21    | 15   | 14    | 15     | 23    | 20E   |
| 17        | 19    | 25    | 25    | 22    | 22    | 19    | 15    | 14   | 15    | 18     | 23    | 19E   |
| 18        | 16E   | 25    | 24    | 21    | 21    | 18    | 14    | 14   | 20    | 17     | 20    | 20E   |
| 19        | 18E   | 24    | 24    | 24    | 21    | 17    | 14    | 15   | 18    | 16     | 19    | 21E   |
| 20        | 20E   | 23    | 23    | 25    | 21    | 18    | 14    | 13   | 16    | 17     | 21    | 20E   |
| 21        | 22E   | 22    | 24    | 23    | 20    | 17    | 14    | 11   | 15    | 17     | 21    | 21E   |
| 22        | 22E   | 23    | 23    | 23    | 21    | 19    | 13    | 11   | 15    | 17     | 21    | 22E   |
| 23        | 23E   | 22    | 23    | 23    | 26    | 26    | 14    | 11   | 15    | 17     | 19E   | 20E   |
| 24        | 23E   | 21    | 21    | 22    | 35    | 19    | 14    | 12   | 15    | 17     | 20E   | 21E   |
| 25        | 24E   | 21    | 20    | 22    | 29    | 17    | 14    | 12   | 16    | 17     | 21    | 20E   |
| 26        | 24E   | 20    | 32    | 22    | 35    | 18    | 16    | 12   | 16    | 23     | 21    | 21E   |
| 27        | 23E   | 20E   | 28    | 23    | 49    | 17    | 59    | 12   | 16    | 22     | 19E   | 20E   |
| 28        | 24E   | 20E   | 25    | 27    | 39    | 17    | 19    | 12   | 16    | 18     | 20E   | 20E   |
| 29        | 24E   | 20E   | 24    | 25    | 32    | 17    | 20    | 14   | 15    | 22     | 21    | 20E   |
| 30        | 23E   | ----- | 23    | 24    | 28    | 17    | 17    | 33   | 15    | 22     | 21    | 21E   |
| 31        | 23E   | ----- | 24    | ----- | 27    | ----- | 17    | 15   | ----- | 19     | ----- | 21E   |
| TOTAL     | 691   | 731   | 744   | 702   | 814   | 612   | 541   | 436  | 449   | 513    | 603   | 638   |
| MEAN      | 22.3  | 25.2  | 24.0  | 23.4  | 26.3  | 20.4  | 17.5  | 14.1 | 15.0  | 16.5   | 20.1  | 20.6  |
| MAX       | 25    | 45    | 32    | 29    | 49    | 27    | 59    | 33   | 20    | 23     | 23    | 22    |
| MIN       | 16    | 20    | 20    | 21    | 20    | 17    | 13    | 11   | 12    | 14     | 19    | 19    |
| AC-FT     | 1,370 | 1,450 | 1,480 | 1,390 | 1,610 | 1,210 | 1,070 | 865  | 891   | 1,020  | 1,200 | 1,270 |
| YEAR 1996 | TOTAL | 7,474 | MEAN  | 20.4  | MAX   | 59    | MIN   | 11   | AC-FT | 14,820 |       |       |



# WHITE RIVER BASIN

**WHITNEY RESERVOIR from White River, 00410000 - 1996**

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<br>(Feet) | CONTENT<br>(Acre-feet) |
|--------------------------|-----------------------|------------------------|
| Top of conservation pool | 17.70                 | 10,700                 |
| Top of dead storage pool | 5.00                  | 500                    |

DAILY CONTENTS IN ACRE-FEET FOR 1996

| Day       | JAN | FEB   | MAR    | APR   | MAY    | JUN    | JUL | AUG   | SEP   | OCT | NOV   | DEC   |
|-----------|-----|-------|--------|-------|--------|--------|-----|-------|-------|-----|-------|-------|
| 1         |     |       |        |       |        |        |     |       |       |     |       |       |
| 2         |     |       |        |       |        |        |     |       |       |     |       |       |
| 3         |     |       |        |       |        |        |     |       |       |     |       |       |
| 4         |     |       |        |       |        |        |     |       |       |     | 5,140 |       |
| 5         |     |       | 9,580  |       |        |        |     |       |       |     |       |       |
| 6         |     |       |        |       |        |        |     |       |       |     |       |       |
| 7         |     |       |        |       |        |        |     |       |       |     |       |       |
| 8         |     |       |        |       |        |        |     |       |       |     |       |       |
| 9         |     |       |        |       |        |        |     |       |       |     |       |       |
| 10        |     |       |        |       |        |        |     |       |       |     |       |       |
| 11        |     |       |        |       |        | 10,600 |     |       |       |     |       |       |
| 12        |     |       |        |       |        |        |     |       |       |     |       |       |
| 13        |     |       |        |       |        |        |     | 6,030 |       |     |       |       |
| 14        |     |       |        |       | 10,300 |        |     |       |       |     |       |       |
| 15        |     |       |        |       |        |        |     |       |       |     |       |       |
| 16        |     |       |        |       |        |        |     |       |       |     |       |       |
| 17        |     |       |        |       |        |        |     |       |       |     |       |       |
| 18        |     |       |        |       |        |        |     |       |       |     |       |       |
| 19        |     |       |        |       |        |        |     |       |       |     |       |       |
| 20        |     |       |        |       |        |        |     |       |       |     |       |       |
| 21        |     |       | 10,200 |       |        |        |     |       |       |     |       |       |
| 22        |     |       |        |       |        |        |     |       |       |     |       |       |
| 23        |     |       |        |       |        |        |     |       | 3,980 |     |       |       |
| 24        |     |       |        |       |        | 10,300 |     |       |       |     |       |       |
| 25        |     |       |        |       |        |        |     |       |       |     |       |       |
| 26        |     |       |        |       |        |        |     |       |       |     |       |       |
| 27        |     |       |        |       |        |        |     |       |       |     |       |       |
| 28        |     |       |        |       |        |        |     |       |       |     |       |       |
| 29        |     |       |        |       |        |        |     |       |       |     |       |       |
| 30        |     | ----- |        | ----- |        | 6,910  |     |       |       |     |       | 7,440 |
| 31        |     | ----- |        | ----- |        | -----  |     |       | ----- |     | ----- |       |
| MAX       |     |       | 10,200 |       | 10,300 | 10,600 |     | 6,030 | 3,980 |     | 5,140 | 7,440 |
| MIN       |     |       | 9,580  |       | 10,300 | 6,910  |     | 6,030 | 3,980 |     | 5,140 | 7,440 |
| CHANGE    |     |       |        |       |        |        |     |       |       |     |       |       |
| YEAR 1996 |     | MAX   | 10,600 |       | MIN    | 3,980  |     |       |       |     |       |       |

# NIOBRARA RIVER BASIN

## NIOBRARA RIVER at Wyoming-Nebraska State Line, 06454000 - 1996

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

DRAINAGE AREA.--Approximately 455 square miles.

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

PERIOD OF RECORD.--1955 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994.  
E indicates estimated daily discharge. Estimated records January 2, 17-19, 25, February 25-28, March 24-26, September 25-October 3, October 9-16, December 16-18. Records good, except estimated records are poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 8.9 cubic feet per second April 17, gage height 2.13 feet; maximum gage height 4.18 feet March 24 due to backwater from snow in channel; minimum daily discharge 1.4 cubic feet per second September 15, 16.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB     | MAR   | APR   | MAY   | JUN   | JUL  | AUG  | SEP   | OCT   | NOV   | DEC   |
|-----------|-------|---------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|
| 1         | 2.5   | 2.1     | 2.7   | 4.8   | 4.8   | 4.5   | 2.8  | 2.1  | 1.8   | 2.5E  | 4.0   | 3.6   |
| 2         | 2.3E  | 2.1     | 2.8   | 5.1   | 4.5   | 4.5   | 2.6  | 1.9  | 1.8   | 2.6E  | 4.0   | 3.7   |
| 3         | 2.2   | 2.0     | 2.6   | 4.9   | 4.4   | 4.5   | 2.2  | 1.9  | 1.8   | 2.6E  | 4.0   | 3.6   |
| 4         | 2.2   | 2.0     | 2.7   | 4.2   | 4.6   | 4.9   | 2.0  | 1.9  | 1.7   | 2.6   | 3.9   | 3.6   |
| 5         | 2.3   | 1.9     | 2.6   | 4.6   | 3.7   | 5.1   | 2.0  | 1.9  | 1.7   | 2.6   | 4.2   | 3.7   |
| 6         | 2.4   | 2.0     | 2.8   | 4.5   | 3.6   | 5.3   | 1.9  | 1.8  | 2.0   | 2.6   | 3.8   | 3.8   |
| 7         | 2.4   | 2.1     | 2.7   | 4.4   | 3.4   | 4.9   | 2.0  | 1.8  | 1.8   | 2.6   | 3.6   | 3.8   |
| 8         | 2.4   | 2.6     | 2.8   | 4.4   | 3.3   | 4.7   | 1.9  | 1.9  | 1.7   | 2.6   | 3.6   | 3.9   |
| 9         | 2.5   | 2.8     | 3.0   | 4.3   | 3.6   | 4.7   | 2.0  | 1.8  | 1.7   | 2.5E  | 3.6   | 4.0   |
| 10        | 2.5   | 2.7     | 3.1   | 4.0   | 3.7   | 4.6   | 2.3  | 1.8  | 1.6   | 2.5E  | 3.5   | 4.0   |
| 11        | 2.3   | 2.5     | 3.5   | 4.3   | 3.7   | 4.4   | 2.0  | 1.9  | 1.5   | 2.6E  | 3.4   | 4.0   |
| 12        | 2.3   | 2.6     | 3.6   | 4.3   | 3.7   | 4.0   | 2.0  | 2.1  | 1.5   | 2.5E  | 3.4   | 4.1   |
| 13        | 2.4   | 2.8     | 3.8   | 5.5   | 3.6   | 3.9   | 2.5  | 2.2  | 1.5   | 2.5E  | 3.4   | 4.1   |
| 14        | 2.3   | 2.7     | 4.0   | 6.2   | 3.6   | 3.7   | 3.1  | 2.2  | 1.5   | 2.6E  | 3.4   | 4.2   |
| 15        | 2.4   | 2.6     | 3.9   | 6.5   | 3.6   | 3.6   | 2.5  | 2.0  | 1.4   | 2.6E  | 3.4   | 4.1   |
| 16        | 2.4   | 2.5     | 4.0   | 6.0   | 3.4   | 3.6   | 2.4  | 2.1  | 1.4   | 2.5E  | 3.3   | 4.0E  |
| 17        | 2.3E  | 2.4     | 3.9   | 6.2   | 3.1   | 3.3   | 2.2  | 2.1  | 2.1   | 2.6   | 3.3   | 4.2E  |
| 18        | 2.2E  | 2.7     | 3.8   | 5.8   | 3.1   | 3.0   | 2.1  | 2.1  | 3.0   | 2.7   | 3.3   | 4.4E  |
| 19        | 2.1E  | 2.8     | 3.7   | 6.5   | 3.0   | 2.8   | 2.3  | 2.0  | 2.9   | 2.7   | 3.5   | 4.2   |
| 20        | 2.1   | 3.4     | 3.9   | 6.7   | 3.1   | 2.8   | 3.4  | 2.0  | 2.8   | 2.8   | 3.5   | 4.3   |
| 21        | 2.2   | 3.2     | 5.2   | 7.1   | 3.2   | 2.8   | 2.6  | 1.9  | 2.8   | 2.7   | 3.4   | 4.3   |
| 22        | 2.3   | 3.3     | 4.7   | 6.8   | 3.3   | 4.0   | 2.2  | 1.8  | 2.8   | 2.7   | 3.5   | 4.5   |
| 23        | 2.5   | 3.2     | 4.8   | 6.3   | 3.8   | 5.2   | 2.2  | 1.9  | 2.7   | 2.6   | 3.4   | 4.4   |
| 24        | 2.4   | 3.2     | 4.6E  | 6.0   | 3.5   | 4.2   | 2.1  | 1.8  | 2.7   | 2.6   | 3.4   | 4.4   |
| 25        | 2.4E  | 3.2E    | 4.0E  | 5.5   | 2.6   | 4.0   | 2.1  | 1.7  | 2.6E  | 2.6   | 3.4   | 4.5   |
| 26        | 2.4   | 3.2E    | 3.5E  | 4.9   | 4.8   | 3.6   | 3.0  | 1.7  | 2.6E  | 2.9   | 3.4   | 4.5   |
| 27        | 2.4   | 3.0E    | 3.6   | 4.8   | 6.0   | 3.3   | 2.4  | 1.7  | 2.5E  | 3.0   | 3.4   | 4.6   |
| 28        | 2.4   | 2.4E    | 3.0   | 5.1   | 5.4   | 3.4   | 2.4  | 1.6  | 2.6E  | 3.3   | 3.5   | 4.7   |
| 29        | 2.2   | 2.2     | 3.3   | 4.9   | 6.4   | 3.3   | 2.1  | 2.4  | 2.5E  | 4.0   | 3.6   | 4.8   |
| 30        | 2.2   | -----   | 3.9   | 5.0   | 5.3   | 3.1   | 2.0  | 2.0  | 2.6E  | 4.0   | 3.6   | 5.1   |
| 31        | 2.2   | -----   | 4.1   | ----- | 4.8   | ----- | 2.2  | 1.8  | ----- | 4.0   | ----- | 5.0   |
| TOTAL     | 72.1  | 76.2    | 110.8 | 159.6 | 122.6 | 119.7 | 71.5 | 59.8 | 63.6  | 86.2  | 106.7 | 130.1 |
| MEAN      | 2.33  | 2.63    | 3.57  | 5.32  | 3.95  | 3.99  | 2.31 | 1.93 | 2.12  | 2.78  | 3.56  | 4.20  |
| MAX       | 2.5   | 3.4     | 5.2   | 7.1   | 6.4   | 5.3   | 3.4  | 2.4  | 3.0   | 4.0   | 4.2   | 5.1   |
| MIN       | 2.1   | 1.9     | 2.6   | 4.0   | 2.6   | 2.8   | 1.9  | 1.6  | 1.4   | 2.5   | 3.3   | 3.6   |
| AC-FT     | 143   | 151     | 220   | 317   | 243   | 237   | 142  | 119  | 126   | 171   | 212   | 258   |
| YEAR 1996 | TOTAL | 1,178.9 | MEAN  | 3.22  | MAX   | 7.1   | MIN  | 1.4  | AC-FT | 2,340 |       |       |

# NIOBRARA RIVER BASIN

JOHNSON CANAL from Niobrara River, 00072000 - 1996

LOCATION.--NE1/4NW1/4 Sec. 1-31-57 W. near Harrison

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

PERIOD OF RECORD.--1956 - present

REMARKS.--E indicates estimated daily discharge

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL  | AUG | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|------|-----|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 1.6   | 2.0   | .17  | 0   | 0     |     |       |     |
| 2         |     |       |     | 0     | 1.6   | 1.9   | .19  | 0   | 0     |     |       |     |
| 3         |     |       |     | 0     | 1.6   | 1.9   | .19  | 0   | 0     |     |       |     |
| 4         |     |       |     | 0     | 1.5   | 1.8   | .19  | 0   | 0     |     |       |     |
| 5         |     |       |     | 0     | 1.4   | 1.5   | .20  | 0   | 0     |     |       |     |
| 6         |     |       |     | 0     | 1.4   | 1.4   | .19  | 0   | 0     |     |       |     |
| 7         |     |       |     | 0     | 1.3   | 1.3   | .24  | 0   | 0     |     |       |     |
| 8         |     |       |     | 0     | 1.3   | 1.3   | .26  | 0   | 0     |     |       |     |
| 9         |     |       |     | 0     | 1.4   | 2.1   | .30  | 0   | 0     |     |       |     |
| 10        |     |       |     | 0     | 1.4   | 3.1   | .31  | 0   | 0     |     |       |     |
| 11        |     |       |     | 0     | 1.3   | 3.0   | .28  | 0   | 0     |     |       |     |
| 12        |     |       |     | 0     | 1.3   | 3.0   | .26  | 0   | 0     |     |       |     |
| 13        |     |       |     | 0     | 1.3E  | 3.0   | .25  | 0   | 0     |     |       |     |
| 14        |     |       |     | 0     | 1.3E  | 3.0   | .22  | 0   | 0     |     |       |     |
| 15        |     |       |     | 0     | 1.7   | 1.7   | 0    | 0   | 0     |     |       |     |
| 16        |     |       |     | 0     | 1.4   | .29   | 0    | 0   | 0     |     |       |     |
| 17        |     |       |     | 0     | 2.7   | .23   | .06  | 0   | 0     |     |       |     |
| 18        |     |       |     | 0     | 2.8E  | .23   | .59  | 0   | 0     |     |       |     |
| 19        |     |       |     | 1.5   | 2.9E  | .22   | .76  | 0   | 0     |     |       |     |
| 20        |     |       |     | 1.9   | 3.0E  | .20   | .17  | 0   | 0     |     |       |     |
| 21        |     |       |     | 2.0   | 3.2E  | .17   | .05  | 0   | 0     |     |       |     |
| 22        |     |       |     | 1.9   | 3.4   | .20   | 0    | 0   | 0     |     |       |     |
| 23        |     |       |     | 1.9   | 3.7   | .22   | 0    | 0   | 0     |     |       |     |
| 24        |     |       |     | 1.8   | 4.3   | .22   | 0    | 0   | 0     |     |       |     |
| 25        |     |       |     | 1.6   | 4.6   | .20   | 0    | 0   | 0     |     |       |     |
| 26        |     |       |     | 1.6   | 4.8   | .17   | 0    | 0   | 0     |     |       |     |
| 27        |     |       |     | 1.6   | 5.1   | .13   | 0    | 0   | 0     |     |       |     |
| 28        |     |       |     | 1.7   | 5.3   | .14   | 0    | 0   | 0     |     |       |     |
| 29        |     |       |     | 1.8   | 4.1   | .15   | 0    | 0   | 0     |     |       |     |
| 30        |     | ----- |     | 1.7   | 2.0   | .16   | 0    | 0   | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 2.1   | ----- | 0    | 0   | ----- |     | ----- |     |
| TOTAL     |     |       |     | 21.0  | 76.8  | 34.93 | 4.88 | 0   | 0     |     |       |     |
| MEAN      |     |       |     | .70   | 2.48  | 1.16  | .16  | 0   | 0     |     |       |     |
| MAX       |     |       |     | 2.0   | 5.3   | 3.1   | .76  | 0   | 0     |     |       |     |
| MIN       |     |       |     | 0     | 1.3   | .13   | 0    | 0   | 0     |     |       |     |
| AC-FT     |     |       |     | 42    | 152   | 69    | 9.7  | 0   | 0     |     |       |     |
| YEAR 1996 | MAX | 5.3   | MIN | 0     | AC-FT | 273   |      |     |       |     |       |     |

# NIOBRARA RIVER BASIN

**LAKOTAH CANAL from Niobrara River, 00079000 - 1996**

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

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

PERIOD OF RECORD.--1956 - present

REMARKS.--E indicates estimated daily discharge

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY    | JUN   | JUL  | AUG  | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|--------|-------|------|------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 2.3    | 4.8   | 1.4  | 1.9  | 1.8   | 0   |       |     |
| 2         |     |       |     | 2.4E  | 2.5    | 4.4   | 1.3  | 2.0  | 1.8   | 0   |       |     |
| 3         |     |       |     | 4.7E  | 2.7    | 4.0   | 1.3  | 2.0  | 1.7   | 0   |       |     |
| 4         |     |       |     | 4.5E  | 2.8    | 3.8   | 1.2  | 2.2  | 1.7   | 0   |       |     |
| 5         |     |       |     | 4.3E  | 3.0    | 4.8   | 1.2  | 2.0  | 1.7   | 0   |       |     |
| 6         |     |       |     | 4.1E  | 3.2    | 3.7   | 1.1  | 1.9  | 1.8   | 0   |       |     |
| 7         |     |       |     | 3.9E  | 3.3    | 3.6   | 1.2  | 1.8  | 1.6   | 0   |       |     |
| 8         |     |       |     | 3.7E  | 3.6    | 3.6   | 1.1  | 1.7  | 1.7   | 0   |       |     |
| 9         |     |       |     | 3.5E  | 4.0    | 3.5   | 1.1  | 1.7  | 1.8   | 0   |       |     |
| 10        |     |       |     | 3.4   | 4.3    | 2.0   | 1.1  | 1.6  | 1.8   | 0   |       |     |
| 11        |     |       |     | 3.6   | 4.3    | 1.1   | 1.1  | 1.6  | 1.6   | 0   |       |     |
| 12        |     |       |     | 4.4   | 4.0    | .88   | 1.1  | 1.6  | 1.5   | 0   |       |     |
| 13        |     |       |     | 4.9   | 3.8    | .75   | 1.2  | 1.5  | 1.6   | 0   |       |     |
| 14        |     |       |     | 5.5   | 3.4    | .60   | 1.3  | 1.3  | 1.6   | 0   |       |     |
| 15        |     |       |     | 5.8   | 3.1    | .56   | 1.6  | 1.4  | 1.7   | 0   |       |     |
| 16        |     |       |     | 5.5   | 3.0    | 2.5   | 1.8  | 1.5  | 1.8   | 0   |       |     |
| 17        |     |       |     | 4.9   | 2.7    | 2.5   | 1.6  | 1.5  | 1.8   | 0   |       |     |
| 18        |     |       |     | 4.3   | 2.6    | 2.3   | 1.3  | 1.6  | 1.9   | 0   |       |     |
| 19        |     |       |     | 4.3   | 1.4    | 1.9   | 1.2  | 1.6  | 1.9   | 0   |       |     |
| 20        |     |       |     | 4.5   | .73    | 1.7   | 1.2  | 1.5  | 2.0   | 0   |       |     |
| 21        |     |       |     | 4.7   | .66    | 1.6   | 1.1  | 1.5  | 2.1   | 0   |       |     |
| 22        |     |       |     | 4.6   | .68    | 1.5   | 1.1  | 1.5  | 2.1   | 0   |       |     |
| 23        |     |       |     | 4.3   | .91    | 2.1   | 1.2  | 1.5  | 2.1   | 0   |       |     |
| 24        |     |       |     | 1.9   | 2.5    | 2.3   | 1.1  | 1.6  | 2.2   | 0   |       |     |
| 25        |     |       |     | 2.1   | 3.5    | 2.2   | 1.0  | 1.6  | 2.0   | 0   |       |     |
| 26        |     |       |     | 1.6   | 4.3    | 2.0   | 1.2  | 1.6  | 0     | 0   |       |     |
| 27        |     |       |     | 1.5   | 5.9    | 2.0   | 1.3  | 1.6  | 0     | 0   |       |     |
| 28        |     |       |     | 1.9   | 6.4    | 1.7   | 1.5  | 1.6  | 0     | 0   |       |     |
| 29        |     |       |     | 2.1   | 5.4    | 1.5   | 1.5  | 1.6  | 0     | 0   |       |     |
| 30        |     | ----- |     | 2.3   | 5.5    | 1.5   | 1.6  | 1.7  | 0     | 0   |       |     |
| 31        |     | ----- |     | ----- | 5.5    | ----- | 1.8  | 1.8  | ----- | 0   | ----- |     |
| TOTAL     |     |       |     | 109.2 | 101.98 | 71.39 | 39.8 | 51.5 | 45.3  | 0   |       |     |
| MEAN      |     |       |     | 3.64  | 3.29   | 2.38  | 1.28 | 1.66 | 1.51  | 0   |       |     |
| MAX       |     |       |     | 5.8   | 6.4    | 4.8   | 1.8  | 2.2  | 2.2   | 0   |       |     |
| MIN       |     |       |     | 0     | .66    | .56   | 1.0  | 1.3  | 0     | 0   |       |     |
| AC-FT     |     |       |     | 217   | 202    | 142   | 79   | 102  | 90    | 0   |       |     |
| YEAR 1996 | MAX | 6.4   | MIN | 0     | AC-FT  | 831   |      |      |       |     |       |     |

# NIOBRARA RIVER BASIN

**EARNEST CANAL (SOUTH) from Niobrara River, 00038100 - 1996**

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

REMARKS.--E indicates estimated daily discharge

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL  | AUG  | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|------|------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 0     | 3.0  | 3.0  | 0     |     |       |     |
| 2         |     |       |     |       | 0     | 0     | 2.9  | 3.2  | 0     |     |       |     |
| 3         |     |       |     |       | 0     | 0     | 2.8  | 3.2  | 0     |     |       |     |
| 4         |     |       |     |       | 0     | 0     | 2.7  | 3.1  | 0     |     |       |     |
| 5         |     |       |     |       | 0     | 0     | 2.5  | 3.1  | 0     |     |       |     |
| 6         |     |       |     |       | 0     | 0     | 2.3  | 3.1  | 0     |     |       |     |
| 7         |     |       |     |       | 0     | 0     | 2.4  | 2.9  | 0     |     |       |     |
| 8         |     |       |     |       | 0     | 0     | 2.5  | 2.7  | 0     |     |       |     |
| 9         |     |       |     |       | 0     | 0     | 2.5  | 2.5  | 0     |     |       |     |
| 10        |     |       |     |       | 0     | 0     | 2.5  | 2.5  | 0     |     |       |     |
| 11        |     |       |     |       | 0     | 2.9   | 2.4  | 2.5  | 0     |     |       |     |
| 12        |     |       |     |       | 0     | 5.7   | 2.4  | 2.4  | 0     |     |       |     |
| 13        |     |       |     |       | 0     | 4.5   | 2.4  | 2.2  | 0     |     |       |     |
| 14        |     |       |     |       | 0     | 3.9   | 2.6  | 2.0  | 0     |     |       |     |
| 15        |     |       |     |       | .40E  | 3.8   | 2.7  | 1.9  | 0     |     |       |     |
| 16        |     |       |     |       | .60E  | 1.9   | 2.8  | 2.0  | 0     |     |       |     |
| 17        |     |       |     |       | .40E  | 0     | 2.7  | 2.0  | 0     |     |       |     |
| 18        |     |       |     |       | .20E  | 0     | 2.5  | 1.9  | 0     |     |       |     |
| 19        |     |       |     |       | 0     | .93   | 2.5  | 1.9  | 0     |     |       |     |
| 20        |     |       |     |       | 0     | 2.8   | 2.4  | 1.7  | 0     |     |       |     |
| 21        |     |       |     |       | 0     | 2.6   | 2.3  | 1.6  | 0     |     |       |     |
| 22        |     |       |     |       | 0     | 2.7   | 2.2  | 1.5  | 0     |     |       |     |
| 23        |     |       |     |       | 0     | 2.8   | 2.2  | 1.5  | 0     |     |       |     |
| 24        |     |       |     |       | 0     | 2.8   | 2.1  | 1.5  | 0     |     |       |     |
| 25        |     |       |     |       | 0     | 2.8   | 2.0  | 1.5  | 0     |     |       |     |
| 26        |     |       |     |       | 0     | 2.9   | 2.2  | 1.0  | 0     |     |       |     |
| 27        |     |       |     |       | 0     | 2.9   | 2.1  | 0    | 0     |     |       |     |
| 28        |     |       |     |       | 0     | 2.9   | 1.9  | 0    | 0     |     |       |     |
| 29        |     |       |     |       | 0     | 3.0   | 2.1  | 0    | 0     |     |       |     |
| 30        |     | ----- |     |       | 0     | 3.0   | 2.2  | 0    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 0     | ----- | 2.5  | 0    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 1.60  | 54.73 | 75.3 | 58.3 | 0     |     |       |     |
| MEAN      |     |       |     |       | .052  | 1.82  | 2.43 | 1.88 | 0     |     |       |     |
| MAX       |     |       |     |       | .60   | 5.7   | 3.0  | 3.2  | 0     |     |       |     |
| MIN       |     |       |     |       | 0     | 0     | 1.9  | 0    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 3.2   | 109   | 149  | 116  | 0     |     |       |     |
| YEAR 1996 | MAX | 5.7   | MIN | 0     | AC-FT | 377   |      |      |       |     |       |     |

# NIOBRARA RIVER BASIN

EARNEST CANAL (NORTH) from Niobrara River, 00038200 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL | AUG  | SEP   | OCT   | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-----|------|-------|-------|-------|-----|
| 1         |     |       |     |       | 0     | 3.6   | 0   | 0    | .68   | 2.8   |       |     |
| 2         |     |       |     |       | 0     | 3.4   | 0   | 0    | .71   | 2.8   |       |     |
| 3         |     |       |     |       | 0     | 3.3   | 0   | 0    | .70   | 2.9   |       |     |
| 4         |     |       |     |       | 0     | 3.2   | 0   | 0    | .70   | 3.1   |       |     |
| 5         |     |       |     |       | 0     | 3.1   | 0   | 0    | 1.1   | 3.3   |       |     |
| 6         |     |       |     |       | 0     | 3.1   | 0   | 0    | 1.5   | 3.5   |       |     |
| 7         |     |       |     |       | 0     | 3.1   | 0   | 0    | 1.9   | 3.6   |       |     |
| 8         |     |       |     |       | 0     | 3.0   | 0   | 0    | 2.3   | 3.8   |       |     |
| 9         |     |       |     |       | 0     | 3.1   | 0   | 0    | 2.4   | 4.1   |       |     |
| 10        |     |       |     |       | 0     | 3.5   | 0   | 0    | 2.2   | 4.2   |       |     |
| 11        |     |       |     |       | 0     | 1.7   | 0   | 0    | 2.2   | 4.2   |       |     |
| 12        |     |       |     |       | 0     | 2.2   | 0   | 0    | 2.1   | 4.1   |       |     |
| 13        |     |       |     |       | 0     | 4.5   | 0   | 0    | 2.2   | 4.1   |       |     |
| 14        |     |       |     |       | 0     | 2.5   | 0   | 0    | 2.3   | 4.0   |       |     |
| 15        |     |       |     |       | 0     | 2.6   | 0   | 0    | 2.3   | 3.9   |       |     |
| 16        |     |       |     |       | 3.4   | 0     | 0   | 0    | 2.3   | 3.9   |       |     |
| 17        |     |       |     |       | 5.7   | 0     | 0   | 0    | 2.4   | 3.9   |       |     |
| 18        |     |       |     |       | 4.3   | 0     | 0   | 0    | 2.6   | 4.0   |       |     |
| 19        |     |       |     |       | 4.1   | 0     | 0   | 0    | 2.6   | 4.0   |       |     |
| 20        |     |       |     |       | 4.0   | 0     | 0   | 0    | 2.6   | 4.0   |       |     |
| 21        |     |       |     |       | 4.1   | 0     | 0   | 0    | 2.7   | 4.0   |       |     |
| 22        |     |       |     |       | 4.2   | 0     | 0   | 0    | 2.7   | 4.0   |       |     |
| 23        |     |       |     |       | 4.2   | 0     | 0   | 0    | 2.7   | 4.0   |       |     |
| 24        |     |       |     |       | 4.2   | 0     | 0   | 0    | 2.7   | 4.0   |       |     |
| 25        |     |       |     |       | 4.3   | 0     | 0   | 0    | 2.7   | 4.0   |       |     |
| 26        |     |       |     |       | 4.2   | 0     | 0   | .02  | 2.7   | 4.0   |       |     |
| 27        |     |       |     |       | 4.1   | 0     | 0   | .30  | 2.7   | 4.1   |       |     |
| 28        |     |       |     |       | 4.1   | 0     | 0   | .46  | 2.7   | 4.2   |       |     |
| 29        |     |       |     |       | 4.1   | 0     | 0   | .79  | 2.7   | 4.2   |       |     |
| 30        |     | ----- |     |       | 3.9   | 0     | 0   | .91  | 2.8   | 1.2   |       |     |
| 31        |     | ----- |     | ----- | 3.7   | ----- | 0   | .81  | ----- | 0     | ----- |     |
| TOTAL     |     |       |     |       | 66.6  | 45.9  | 0   | 3.29 | 64.89 | 111.9 |       |     |
| MEAN      |     |       |     |       | 2.15  | 1.53  | 0   | .11  | 2.16  | 3.61  |       |     |
| MAX       |     |       |     |       | 5.7   | 4.5   | 0   | .91  | 2.8   | 4.2   |       |     |
| MIN       |     |       |     |       | 0     | 0     | 0   | 0    | .68   | 0     |       |     |
| AC-FT     |     |       |     |       | 132   | 91    | 0   | 6.5  | 129   | 222   |       |     |
| YEAR 1996 | MAX | 5.7   | MIN | 0     | AC-FT | 580   |     |      |       |       |       |     |

# NIOBRARA RIVER BASIN

## McGINLEY-STOVER CANAL from Niobrara River, 00084000 - 1996

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

REMARKS.--E indicates estimated daily discharge

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL | AUG | SEP   | OCT  | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-----|-----|-------|------|-------|-----|
| 1         |     |       |     | 0     | 4.9   | 0     | 0   | 0   | 0     | 4.9  |       |     |
| 2         |     |       |     | 0     | 4.4E  | 0     | 0   | 0   | 1.0E  | 5.0  |       |     |
| 3         |     |       |     | 0     | 4.3E  | 0     | 0   | 0   | 1.5E  | 4.9  |       |     |
| 4         |     |       |     | 0     | 4.2E  | 0     | 0   | 0   | 1.9   | 4.9  |       |     |
| 5         |     |       |     | 0     | 4.1E  | 0     | 0   | 0   | 2.5   | 5.0  |       |     |
| 6         |     |       |     | 0     | 4.0E  | 0     | 0   | 0   | 3.3   | 5.1  |       |     |
| 7         |     |       |     | 0     | 3.9E  | 0     | 0   | 0   | 3.3   | 5.2  |       |     |
| 8         |     |       |     | 0     | 3.8   | 0     | 0   | 0   | 3.3   | 5.1  |       |     |
| 9         |     |       |     | 0     | 6.6   | 0     | 0   | 0   | 3.4   | 4.9  |       |     |
| 10        |     |       |     | 0     | 8.7   | 0     | 0   | 0   | 3.4   | 5.0  |       |     |
| 11        |     |       |     | 0     | 9.2   | 0     | 0   | 0   | 3.5   | 4.9  |       |     |
| 12        |     |       |     | 0     | 9.1   | 0     | 0   | 0   | 3.5   | 5.1  |       |     |
| 13        |     |       |     | 0     | 8.4   | 0     | 0   | 0   | 3.5   | 5.0  |       |     |
| 14        |     |       |     | 0     | 6.8   | 0     | 0   | 0   | 3.7   | 2.5  |       |     |
| 15        |     |       |     | 0     | 3.1   | 0     | 0   | 0   | 3.9   | 0    |       |     |
| 16        |     |       |     | 0     | 2.5   | 0     | 0   | 0   | 4.0   | 0    |       |     |
| 17        |     |       |     | 0     | 2.7   | 0     | 0   | 0   | 4.1   | 0    |       |     |
| 18        |     |       |     | 0     | 3.2   | 0     | 0   | 0   | 4.7   | 0    |       |     |
| 19        |     |       |     | 0     | 2.9   | 0     | 0   | 0   | 4.2   | 0    |       |     |
| 20        |     |       |     | 0     | 2.5   | 0     | 0   | 0   | 4.3   | 0    |       |     |
| 21        |     |       |     | 0     | 2.3   | 0     | 0   | 0   | 4.3   | 0    |       |     |
| 22        |     |       |     | 0     | 2.3   | 0     | 0   | 0   | 4.5   | 0    |       |     |
| 23        |     |       |     | 0     | 2.4   | 0     | 0   | 0   | 4.5   | 0    |       |     |
| 24        |     |       |     | 5.2   | 2.8   | 0     | 0   | 0   | 4.4   | 0    |       |     |
| 25        |     |       |     | 4.2   | 2.7   | 0     | 0   | 0   | 4.7   | 0    |       |     |
| 26        |     |       |     | 4.0   | 3.8   | 0     | 0   | 0   | 5.0   | 0    |       |     |
| 27        |     |       |     | 3.6   | 4.7   | 0     | 0   | 0   | 5.1   | 0    |       |     |
| 28        |     |       |     | 4.0   | 1.1   | 0     | 0   | 0   | 5.1   | 0    |       |     |
| 29        |     |       |     | 5.4   | 0     | 0     | 0   | 0   | 5.1   | 0    |       |     |
| 30        |     | ----- |     | 5.4   | 0     | 0     | 0   | 0   | 5.1   | 0    |       |     |
| 31        |     | ----- |     | ----- | 0     | ----- | 0   | 0   | ----- | 0    | ----- |     |
| TOTAL     |     |       |     | 31.8  | 121.4 | 0     | 0   | 0   | 110.8 | 67.5 |       |     |
| MEAN      |     |       |     | 1.06  | 3.92  | 0     | 0   | 0   | 3.69  | 2.18 |       |     |
| MAX       |     |       |     | 5.4   | 9.2   | 0     | 0   | 0   | 5.1   | 5.2  |       |     |
| MIN       |     |       |     | 0     | 0     | 0     | 0   | 0   | 0     | 0    |       |     |
| AC-FT     |     |       |     | 63    | 241   | 0     | 0   | 0   | 220   | 134  |       |     |
| YEAR 1996 | MAX | 9.2   | MIN | 0     | AC-FT | 658   |     |     |       |      |       |     |

# NIOBRARA RIVER BASIN

COOK CANAL NO. 1 from Niobrara River, 00029000 - 1996

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 FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL | AUG | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-----|-----|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | .36   | 0   | 0   | 0     |     |       |     |
| 2         |     |       |     |       | 0     | .33   | 0   | 0   | 0     |     |       |     |
| 3         |     |       |     |       | 0     | .15   | 0   | 0   | 0     |     |       |     |
| 4         |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 5         |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 6         |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 7         |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 8         |     |       |     |       | 1.1   | 0     | 0   | 0   | 0     |     |       |     |
| 9         |     |       |     |       | 1.2   | 0     | 0   | 0   | 0     |     |       |     |
| 10        |     |       |     |       | 1.2   | 0     | 0   | 0   | 0     |     |       |     |
| 11        |     |       |     |       | 1.2   | 0     | 0   | 0   | 0     |     |       |     |
| 12        |     |       |     |       | 1.2   | 0     | 0   | 0   | 0     |     |       |     |
| 13        |     |       |     |       | 1.2   | 0     | 0   | 0   | 0     |     |       |     |
| 14        |     |       |     |       | 1.2   | 0     | 0   | 0   | 0     |     |       |     |
| 15        |     |       |     |       | 1.1   | 0     | 0   | 0   | 0     |     |       |     |
| 16        |     |       |     |       | .95   | 0     | 0   | 0   | 0     |     |       |     |
| 17        |     |       |     |       | 1.0   | 0     | 0   | 0   | 0     |     |       |     |
| 18        |     |       |     |       | .72   | 0     | 0   | 0   | 0     |     |       |     |
| 19        |     |       |     |       | .03   | 0     | 0   | 0   | 0     |     |       |     |
| 20        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 21        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 22        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 23        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 24        |     |       |     |       | .20   | 0     | 0   | 0   | 0     |     |       |     |
| 25        |     |       |     |       | .18   | 0     | 0   | 0   | 0     |     |       |     |
| 26        |     |       |     |       | .31   | 0     | 0   | 0   | 0     |     |       |     |
| 27        |     |       |     |       | .54   | 0     | 0   | 0   | 0     |     |       |     |
| 28        |     |       |     |       | .48   | 0     | 0   | 0   | 0     |     |       |     |
| 29        |     |       |     |       | .47   | 0     | 0   | 0   | 0     |     |       |     |
| 30        |     | ----- |     |       | .47   | 0     | 0   | 0   | 0     |     |       |     |
| 31        |     | ----- |     | ----- | .41   | ----- | 0   | 0   | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 15.16 | 0.84  | 0   | 0   | 0     |     |       |     |
| MEAN      |     |       |     |       | .49   | .028  | 0   | 0   | 0     |     |       |     |
| MAX       |     |       |     |       | 1.2   | .36   | 0   | 0   | 0     |     |       |     |
| MIN       |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| AC-FT     |     |       |     |       | 30    | 1.7   | 0   | 0   | 0     |     |       |     |
| YEAR 1996 | MAX | 1.2   | MIN | 0     | AC-FT | 32    |     |     |       |     |       |     |



# NIOBRARA RIVER BASIN

HARRIS-NEECE CANAL from Niobrara River, 00062000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG    | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|--------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 0     | 6.1    | 7.6   | .16    | 4.4   |     |       |     |
| 2         |     |       |     | 0     | 0     | 6.3    | 6.8   | 0      | 4.1   |     |       |     |
| 3         |     |       |     | 0     | 0     | 6.4    | 6.6   | 0      | 4.6   |     |       |     |
| 4         |     |       |     | 0     | 0     | 6.8    | 6.5   | 0      | 3.8   |     |       |     |
| 5         |     |       |     | 0     | 0     | 7.1    | 6.3   | 0      | 5.2   |     |       |     |
| 6         |     |       |     | 0     | 0     | 7.1    | 6.4   | 0      | 5.0   |     |       |     |
| 7         |     |       |     | 0     | 0     | 7.0    | 6.9   | 0      | 4.5   |     |       |     |
| 8         |     |       |     | 0     | 5.0   | 7.1    | 7.3   | 3.2    | 3.9   |     |       |     |
| 9         |     |       |     | 0     | 9.1   | 7.3    | 7.5   | 5.2    | 4.3   |     |       |     |
| 10        |     |       |     | 0     | 9.2   | 8.1    | 7.7   | 5.3    | 5.4   |     |       |     |
| 11        |     |       |     | 0     | 9.0   | 7.7    | 7.6   | 5.2    | 1.8   |     |       |     |
| 12        |     |       |     | 0     | 8.8   | 7.8    | 7.8   | 5.2    | 0     |     |       |     |
| 13        |     |       |     | 0     | 8.9   | 8.7    | 7.6   | 5.3    | 0     |     |       |     |
| 14        |     |       |     | 0     | 8.8   | 9.0    | 8.0   | 5.5    | 0     |     |       |     |
| 15        |     |       |     | 0     | 8.4   | 6.4    | 8.0   | 6.8    | 0     |     |       |     |
| 16        |     |       |     | 0     | 8.3   | 11.3   | 7.7   | 7.5    | 0     |     |       |     |
| 17        |     |       |     | 0     | 8.0   | 0      | 7.3   | 7.3    | 0     |     |       |     |
| 18        |     |       |     | 0     | 8.0   | 0      | 6.8   | 6.8    | 0     |     |       |     |
| 19        |     |       |     | 0     | 7.8   | 0      | 6.9   | 7.2    | 0     |     |       |     |
| 20        |     |       |     | 0     | 7.8   | 0      | 6.6   | 6.8    | 0     |     |       |     |
| 21        |     |       |     | 0     | 7.4   | 0      | 6.5   | 6.5    | 0     |     |       |     |
| 22        |     |       |     | 0     | 7.4   | 0      | 6.5   | 6.5    | 0     |     |       |     |
| 23        |     |       |     | 0     | 8.1   | 0      | 6.6   | 6.8    | 0     |     |       |     |
| 24        |     |       |     | 0     | 11    | 0      | 6.6   | 6.9    | 0     |     |       |     |
| 25        |     |       |     | 0     | 11    | 0      | 7.3   | 7.0    | 0     |     |       |     |
| 26        |     |       |     | 0     | 12    | 15.1   | 8.4   | 6.0    | 0     |     |       |     |
| 27        |     |       |     | 0     | 12    | 5.7    | 9.1   | 4.9    | 0     |     |       |     |
| 28        |     |       |     | 0     | 12    | 8.2    | 9.6   | 4.5    | 0     |     |       |     |
| 29        |     |       |     | 0     | 11    | 7.9    | 10    | 4.7    | 0     |     |       |     |
| 30        |     | ----- |     | 0     | 5.6   | 7.8    | 11    | 5.3    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 5.8   | -----  | 11    | 6.0    | ----- |     | ----- |     |
| TOTAL     |     |       |     | 0     | 210.4 | 139.14 | 236.3 | 143.06 | 47.0  |     |       |     |
| MEAN      |     |       |     | 0     | 6.79  | 4.64   | 7.62  | 4.61   | 1.57  |     |       |     |
| MAX       |     |       |     | 0     | 12    | 9.0    | 11    | 7.5    | 5.4   |     |       |     |
| MIN       |     |       |     | 0     | 0     | 0      | 6.3   | 0      | 0     |     |       |     |
| AC-FT     |     |       |     | 0     | 417   | 276    | 469   | 284    | 93    |     |       |     |
| YEAR 1996 | MAX | 12    | MIN | 0     | AC-FT | 1,540  |       |        |       |     |       |     |

# NIOBRARA RIVER BASIN

**LABELLE CANAL from Niobrara River, 00078000 - 1996**

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL | AUG | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-----|-----|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 2         |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 3         |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 4         |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 5         |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 6         |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 7         |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 8         |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 9         |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 10        |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 11        |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 12        |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 13        |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 14        |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 15        |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 16        |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 17        |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 18        |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 19        |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| 20        |     |       |     | 0     | 0     | 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     | .51   | 0     | 0   | 0   |       |     |       |     |
| 28        |     |       |     | 0     | 3.4   | 0     | 0   | 0   |       |     |       |     |
| 29        |     |       |     | 0     | 3.5   | 0     | 0   | 0   |       |     |       |     |
| 30        |     | ----- |     | 0     | 2.3   | 0     | 0   | 0   |       |     |       |     |
| 31        |     | ----- |     | ----- | 0     | ----- | 0   | 0   | ----- |     | ----- |     |
| TOTAL     |     |       |     | 0     | 9.71  | 0     | 0   | 0   |       |     |       |     |
| MEAN      |     |       |     | 0     | .31   | 0     | 0   | 0   |       |     |       |     |
| MAX       |     |       |     | 0     | 3.5   | 0     | 0   | 0   |       |     |       |     |
| MIN       |     |       |     | 0     | 0     | 0     | 0   | 0   |       |     |       |     |
| AC-FT     |     |       |     | 0     | 19    | 0     | 0   | 0   |       |     |       |     |
| YEAR 1996 | MAX | 3.5   | MIN | 0     | AC-FT | 19    |     |     |       |     |       |     |

# NIOBRARA RIVER BASIN

**METTLEN CANAL from Niobrara River, 00089000 - 1996**

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

REMARKS.--E indicates estimated daily discharge

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-----|-----|
| 1         |     |       |     | 0     | 6.7   | 2.4   | 2.0   | 1.2   | 0     |     |     |     |
| 2         |     |       |     | 0     | 6.6   | 2.4   | 1.7   | 4.3   | 0     |     |     |     |
| 3         |     |       |     | 0     | 6.4E  | 2.1   | 1.4   | 4.3   | 0     |     |     |     |
| 4         |     |       |     | 0     | 6.3E  | 1.9   | 1.1   | 4.1   | 0     |     |     |     |
| 5         |     |       |     | 0     | 6.1E  | 1.6   | 1.2   | 3.9   | 0     |     |     |     |
| 6         |     |       |     | 0     | 5.9E  | 1.8   | 1.0   | 3.6   | 0     |     |     |     |
| 7         |     |       |     | 0     | 5.8E  | 1.4   | 1.5   | 3.4   | 0     |     |     |     |
| 8         |     |       |     | 0     | 5.6   | 1.3   | 1.2   | 3.3   | 0     |     |     |     |
| 9         |     |       |     | 0     | 5.9   | 1.3   | 1.2   | 1.7   | 0     |     |     |     |
| 10        |     |       |     | 0     | 5.0   | 1.2   | 1.6   | .27   | 0     |     |     |     |
| 11        |     |       |     | 0     | 3.9   | 1.1   | 1.4   | .13   | 0     |     |     |     |
| 12        |     |       |     | 0     | 3.7   | 1.2   | .99   | .08   | 0     |     |     |     |
| 13        |     |       |     | 0     | 3.7   | 1.3   | 1.3   | 0     | 0     |     |     |     |
| 14        |     |       |     | 0     | 3.8   | 1.1   | 2.3   | 0     | 0     |     |     |     |
| 15        |     |       |     | 0     | 4.4   | 1.0   | 1.6   | 0     | 0     |     |     |     |
| 16        |     |       |     | 0     | 4.5   | 1.3   | 1.4   | 0     | 0     |     |     |     |
| 17        |     |       |     | 0     | 3.9   | 1.6   | 1.4   | 0     | 0     |     |     |     |
| 18        |     |       |     | 0     | 3.3   | 1.6   | .27   | 0     | 0     |     |     |     |
| 19        |     |       |     | 0     | 2.2   | 1.4   | 0     | 0     | 0     |     |     |     |
| 20        |     |       |     | 0     | 2.6   | 1.4E  | 0     | 0     | 0     |     |     |     |
| 21        |     |       |     | 0     | 2.6   | 1.5E  | 0     | 0     | 0     |     |     |     |
| 22        |     |       |     | 0     | 2.4   | 1.5E  | 0     | 0     | 0     |     |     |     |
| 23        |     |       |     | 0     | 3.5   | 1.5E  | 0     | 0     | 0     |     |     |     |
| 24        |     |       |     | 4.0   | 5.0   | 1.5E  | 0     | 0     | 0     |     |     |     |
| 25        |     |       |     | 6.9   | 3.9   | 1.6E  | 0     | 0     | 0     |     |     |     |
| 26        |     |       |     | 6.8   | 5.2   | 1.6   | 0     | 0     | 0     |     |     |     |
| 27        |     |       |     | 6.3   | 6.6   | 4.6   | 0     | 0     | 0     |     |     |     |
| 28        |     |       |     | 6.5   | 4.1   | 4.4   | 0     | 0     | 0     |     |     |     |
| 29        |     |       |     | 6.6   | 2.1   | 2.8   | 0     | 0     | 0     |     |     |     |
| 30        |     | ----- |     | 6.6   | 2.0   | 2.4   | 0     | 0     | 0     |     |     |     |
| 31        |     | ----- |     | ----- | 2.4   | ----- | 0     | 0     | ----- |     |     |     |
| TOTAL     |     |       |     | 43.7  | 136.1 | 54.0  | 24.56 | 30.28 | 0     |     |     |     |
| MEAN      |     |       |     | 1.46  | 4.39  | 1.80  | .79   | .98   | 0     |     |     |     |
| MAX       |     |       |     | 6.9   | 6.7   | 4.6   | 2.3   | 4.3   | 0     |     |     |     |
| MIN       |     |       |     | 0     | 2.0   | 1.0   | 0     | 0     | 0     |     |     |     |
| AC-FT     |     |       |     | 87    | 270   | 107   | 49    | 60    | 0     |     |     |     |
| YEAR 1996 | MAX | 6.9   | MIN | 0     | AC-FT | 573   |       |       |       |     |     |     |

# NIOBRARA RIVER BASIN

**BENNETT-KAY CANAL from Niobrara River, 00013000 - 1996**

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 FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL | AUG | SEP   | OCT | NOV | DEC   |
|-----------|-----|-------|-----|-------|-------|-------|-----|-----|-------|-----|-----|-------|
| 1         |     |       |     |       | 0     | 5.0   | 0   | 0   | 0     |     |     |       |
| 2         |     |       |     |       | 0     | 5.1   | 0   | 0   | 0     |     |     |       |
| 3         |     |       |     |       | 0     | 5.2   | 0   | 0   | 0     |     |     |       |
| 4         |     |       |     |       | 0     | 5.4   | 0   | 0   | 0     |     |     |       |
| 5         |     |       |     |       | 0     | 4.6   | 0   | 0   | 0     |     |     |       |
| 6         |     |       |     |       | 0     | 1.1   | 0   | 0   | 0     |     |     |       |
| 7         |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 8         |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 9         |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 10        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 11        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 12        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 13        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 14        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 15        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 16        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 17        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 18        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 19        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 20        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 21        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| 22        |     |       |     |       | .87   | 0     | 0   | 0   | 0     |     |     |       |
| 23        |     |       |     |       | 4.1   | 0     | 0   | 0   | 0     |     |     |       |
| 24        |     |       |     |       | 4.7   | 0     | 0   | 0   | 0     |     |     |       |
| 25        |     |       |     |       | 5.3   | 0     | 0   | 0   | 0     |     |     |       |
| 26        |     |       |     |       | 5.7   | 0     | 0   | 0   | 0     |     |     |       |
| 27        |     |       |     |       | 7.6   | 0     | 0   | 0   | 0     |     |     |       |
| 28        |     |       |     |       | 8.6   | 0     | 0   | 0   | 0     |     |     |       |
| 29        |     |       |     |       | 6.2   | 0     | 0   | 0   | 0     |     |     |       |
| 30        |     | ----- |     |       | 4.7   | 0     | 0   | 0   | 0     |     |     |       |
| 31        |     | ----- |     | ----- | 4.8   | ----- | 0   | 0   | ----- |     |     | ----- |
| TOTAL     |     |       |     |       | 52.57 | 26.4  | 0   | 0   | 0     |     |     |       |
| MEAN      |     |       |     |       | 1.70  | .88   | 0   | 0   | 0     |     |     |       |
| MAX       |     |       |     |       | 8.6   | 5.4   | 0   | 0   | 0     |     |     |       |
| MIN       |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |     |       |
| AC-FT     |     |       |     |       | 104   | 52    | 0   | 0   | 0     |     |     |       |
| YEAR 1996 | MAX | 8.6   | MIN | 0     | AC-FT | 157   |     |     |       |     |     |       |

# NIOBRARA RIVER BASIN

MOORE - KAY CANAL from Niobrara River, 00104000 - 1996

LOCATION.--SE1/4NE1/4 Sec. 9-26-53 W. near Marsland

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY    | JUN    | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|--------|--------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 6.9    | .19    | .66   | 3.6   | 1.8   | 0   |       |     |
| 2         |     |       |     | 0     | 6.9    | .23    | 0     | 0     | 1.7   | 0   |       |     |
| 3         |     |       |     | 0     | 7.0    | 1.3    | 0     | 0     | 1.7   | 0   |       |     |
| 4         |     |       |     | 0     | 6.7    | 7.5    | 0     | 0     | 1.9   | 0   |       |     |
| 5         |     |       |     | 0     | 6.7    | 6.9    | 0     | 0     | 1.8   | 0   |       |     |
| 6         |     |       |     | 0     | 6.7    | 7.2    | 0     | 0     | 2.2   | 0   |       |     |
| 7         |     |       |     | 0     | 6.7    | 7.2    | 0     | 0     | 2.2   | 0   |       |     |
| 8         |     |       |     | 0     | 7.0    | 6.6    | 0     | 0     | 2.3   | 0   |       |     |
| 9         |     |       |     | 0     | 7.8    | 6.2    | 0     | 0     | 2.3   | 0   |       |     |
| 10        |     |       |     | 0     | 7.7    | 5.8    | 0     | 0     | 2.3   | 0   |       |     |
| 11        |     |       |     | 0     | 7.4    | 5.5    | 0     | 0     | 2.3   | 0   |       |     |
| 12        |     |       |     | 0     | 7.1    | 5.1    | 0     | 0     | 1.4   | 0   |       |     |
| 13        |     |       |     | 0     | 6.7    | 5.7    | 0     | .05   | 0     | 0   |       |     |
| 14        |     |       |     | 0     | 6.7    | 5.7    | 0     | .80   | 0     | 0   |       |     |
| 15        |     |       |     | 0     | 6.2    | 5.5    | 0     | 1.7   | 0     | 0   |       |     |
| 16        |     |       |     | 0     | 6.5    | 5.5    | 1.9   | 1.6   | 0     | 0   |       |     |
| 17        |     |       |     | 0     | 3.0    | 5.8    | 2.9   | 1.6   | 0     | 0   |       |     |
| 18        |     |       |     | .52   | 0      | 6.3    | 3.0   | 2.0   | 0     | 0   |       |     |
| 19        |     |       |     | 2.2   | 0      | 5.7    | 2.5   | 1.3   | 0     | 0   |       |     |
| 20        |     |       |     | 2.4   | 0      | 5.0    | 2.1   | 0     | 0     | 0   |       |     |
| 21        |     |       |     | 2.5   | .86    | 4.9    | 2.1   | 0     | 0     | 0   |       |     |
| 22        |     |       |     | 2.5   | 4.1    | 5.2    | 2.1   | 0     | 0     | 0   |       |     |
| 23        |     |       |     | 2.1   | 3.6    | 5.4    | .64   | 0     | 0     | 0   |       |     |
| 24        |     |       |     | .83   | 4.1    | 5.0    | 0     | 0     | 0     | 0   |       |     |
| 25        |     |       |     | .16   | 4.4    | 4.5    | 0     | 0     | 0     | 0   |       |     |
| 26        |     |       |     | 0     | 5.2    | 4.2    | .83   | 0     | 0     | 0   |       |     |
| 27        |     |       |     | 0     | 4.0    | 3.9    | 4.2   | 0     | 0     | 0   |       |     |
| 28        |     |       |     | 0     | 2.0    | 3.1    | 4.8   | 0     | 0     | 0   |       |     |
| 29        |     |       |     | 1.1   | 1.6    | 2.9    | 4.1   | 0     | 0     | 0   |       |     |
| 30        |     | ----- |     | 7.3   | .76    | 2.2    | 4.3   | .36   | 0     | 0   |       |     |
| 31        |     | ----- |     | ----- | .40    | -----  | 5.3   | 1.9   | ----- | 0   | ----- |     |
| TOTAL     |     |       |     | 21.61 | 144.72 | 146.22 | 41.43 | 14.91 | 23.9  | 0   |       |     |
| MEAN      |     |       |     | .72   | 4.67   | 4.87   | 1.34  | .48   | .80   | 0   |       |     |
| MAX       |     |       |     | 7.3   | 7.8    | 7.5    | 5.3   | 3.6   | 2.3   | 0   |       |     |
| MIN       |     |       |     | 0     | 0      | .19    | 0     | 0     | 0     | 0   |       |     |
| AC-FT     |     |       |     | 43    | 287    | 290    | 82    | 30    | 47    | 0   |       |     |
| YEAR 1996 | MAX | 7.8   | MIN | 0     | AC-FT  | 779    |       |       |       |     |       |     |

# NIOBRARA RIVER BASIN

GEO. HITSHEW CANAL from Niobrara River, 00063000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

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

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No water diverted in 1996

# NIOBRARA RIVER BASIN

**McLAUGHLIN CANAL from Niobrara River, 00086000 - 1996**

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

REMARKS.--E indicates estimated daily discharge

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY    | JUN   | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|--------|-------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 0      | 0     | 5.3   | 0     | 4.0   |     |       |     |
| 2         |     |       |     | 0     | 0      | 0     | 5.6   | 0     | 3.7   |     |       |     |
| 3         |     |       |     | 0     | 0      | 0     | 5.6   | 0     | 3.7   |     |       |     |
| 4         |     |       |     | 0     | 0      | 0     | 5.6   | 0     | 3.7   |     |       |     |
| 5         |     |       |     | 0     | 0      | 0     | 5.7   | 0     | 3.9   |     |       |     |
| 6         |     |       |     | 0     | 0      | 0     | 5.5   | 0     | 4.7   |     |       |     |
| 7         |     |       |     | 0     | 0      | 0     | 5.5   | 0     | 5.3   |     |       |     |
| 8         |     |       |     | 0     | 0      | 0     | 5.5   | 0     | 4.9   |     |       |     |
| 9         |     |       |     | 0     | 0      | 0     | 5.4   | 0     | 4.9   |     |       |     |
| 10        |     |       |     | 0     | 0      | 0     | 5.4   | 0     | 4.7   |     |       |     |
| 11        |     |       |     | 0     | 0      | 0     | 5.4   | 0     | 4.6   |     |       |     |
| 12        |     |       |     | 0     | 0      | 0     | 5.1   | .44   | 4.2   |     |       |     |
| 13        |     |       |     | 0     | 0      | 5.4   | 4.9   | 3.7   | 4.2   |     |       |     |
| 14        |     |       |     | 0     | 2.5    | 7.6   | 4.8   | 4.0   | 4.4   |     |       |     |
| 15        |     |       |     | 0     | 7.2    | 7.6   | 4.7   | 4.2   | 4.6   |     |       |     |
| 16        |     |       |     | 0     | 7.6    | 7.7   | 5.1   | 3.9   | 4.6   |     |       |     |
| 17        |     |       |     | 0     | 8.0    | 7.6   | 4.3   | 3.9 E | 4.9   |     |       |     |
| 18        |     |       |     | 0     | 8.2    | 7.6   | 3.6   | 3.9 E | 3.3   |     |       |     |
| 19        |     |       |     | 0     | 8.3    | 7.9   | 2.4   | 3.9 E | .01   |     |       |     |
| 20        |     |       |     | 0     | 8.3    | 7.0   | .52   | 3.9 E | 0     |     |       |     |
| 21        |     |       |     | 0     | 8.3    | 6.4   | 0     | 3.9 E | 0     |     |       |     |
| 22        |     |       |     | 0     | 8.3    | 6.2   | 0     | 3.9 E | 0     |     |       |     |
| 23        |     |       |     | 0     | 8.4    | 6.0   | 0     | 3.9 E | 0     |     |       |     |
| 24        |     |       |     | 0     | 8.8    | 6.0   | 0     | 3.9 E | 0     |     |       |     |
| 25        |     |       |     | 0     | 8.8    | 6.1   | 0     | 3.9 E | 0     |     |       |     |
| 26        |     |       |     | 0     | 8.9    | 6.0   | 0     | 3.9 E | 0     |     |       |     |
| 27        |     |       |     | 0     | 5.1    | 5.9   | 0     | 3.7   | 0     |     |       |     |
| 28        |     |       |     | 0     | 3.3    | 6.0   | 0     | 3.6   | 0     |     |       |     |
| 29        |     |       |     | 0     | 2.7    | 5.9   | 0     | 4.3   | 0     |     |       |     |
| 30        |     | ----- |     | 0     | .68    | 5.6   | 0     | 5.3   | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 0      | ----- | 0     | 4.9   | ----- |     | ----- |     |
| TOTAL     |     |       |     | 0     | 113.36 | 118.5 | 95.92 | 77.04 | 78.61 |     |       |     |
| MEAN      |     |       |     | 0     | 3.66   | 3.95  | 3.09  | 2.49  | 2.62  |     |       |     |
| MAX       |     |       |     | 0     | 8.9    | 7.9   | 5.7   | 5.3   | 5.3   |     |       |     |
| MIN       |     |       |     | 0     | 0      | 0     | 0     | 0     | 0     |     |       |     |
| AC-FT     |     |       |     | 0     | 225    | 235   | 190   | 153   | 156   |     |       |     |
| YEAR 1996 | MAX | 8.9   | MIN | 0     | AC-FT  | 959   |       |       |       |     |       |     |

# NIOBRARA RIVER BASIN

**EXCELSIOR CANAL from Niobrara River, 00046000 - 1996**

LOCATION.--SE1/4NW1/4 Sec. 10-28-52 W. near Marsland

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

REMARKS.--E indicates estimated daily discharge

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 0     | 1.1   | 3.3   | 0     | 0   |       |     |
| 2         |     |       |     |       | 0     | 0     | 1.0   | 3.6   | 0     | 0   |       |     |
| 3         |     |       |     |       | 0     | 0     | .98   | 3.7   | 0     | 0   |       |     |
| 4         |     |       |     |       | 0     | 0     | .93   | 3.6   | 0     | 0   |       |     |
| 5         |     |       |     |       | 0     | 0     | 1.5   | 3.6   | 0     | 0   |       |     |
| 6         |     |       |     |       | 0     | .09   | 1.3   | 3.5   | 0     | 0   |       |     |
| 7         |     |       |     |       | 0     | 1.2   | 1.1   | 3.4   | 0     | 0   |       |     |
| 8         |     |       |     |       | 0     | 2.8   | 1.3   | 3.2   | 0     | 0   |       |     |
| 9         |     |       |     |       | 0     | 3.1   | 1.3   | 3.0   | 0     | 0   |       |     |
| 10        |     |       |     |       | 0     | 2.9   | 1.1   | 3.0   | 0     | 0   |       |     |
| 11        |     |       |     |       | 0     | 2.3   | 1.0 E | 2.9   | 0     | 0   |       |     |
| 12        |     |       |     |       | 0     | 1.9   | .95E  | 2.6   | 0     | 0   |       |     |
| 13        |     |       |     |       | 0     | 2.2   | .65E  | .75   | 0     | 0   |       |     |
| 14        |     |       |     |       | 0     | 2.4   | 2.3 E | 0     | 0     | 0   |       |     |
| 15        |     |       |     |       | 0     | 2.6   | 2.7   | 0     | 0     | 0   |       |     |
| 16        |     |       |     |       | 0     | 2.8   | 2.1   | 0     | 0     | 0   |       |     |
| 17        |     |       |     |       | 0     | 2.9   | 1.4   | 0     | 0     | 0   |       |     |
| 18        |     |       |     |       | 0     | 2.7   | .68   | 0     | 0     | 0   |       |     |
| 19        |     |       |     |       | 0     | 2.8   | .97   | 0     | 0     | 0   |       |     |
| 20        |     |       |     |       | 0     | 3.1   | 2.2   | 0     | 0     | 0   |       |     |
| 21        |     |       |     |       | 0     | 3.4   | 2.4   | 0     | 0     | 0   |       |     |
| 22        |     |       |     |       | 0     | 3.5   | 2.4   | 0     | 0     | 0   |       |     |
| 23        |     |       |     |       | 0     | 4.1   | 2.3   | 0     | 0     | 0   |       |     |
| 24        |     |       |     |       | 0     | 4.1   | 2.6   | 0     | 0     | 0   |       |     |
| 25        |     |       |     |       | 0     | 3.7   | 2.7   | 0     | 0     | 0   |       |     |
| 26        |     |       |     |       | 0     | 3.6   | 2.8   | 0     | 0     | 0   |       |     |
| 27        |     |       |     |       | 0     | 3.5   | 2.8   | 0     | 0     | 0   |       |     |
| 28        |     |       |     |       | 0     | 3.3   | 2.7   | 0     | 0     | 0   |       |     |
| 29        |     |       |     |       | 0     | 3.1   | 2.6   | 0     | 0     | 0   |       |     |
| 30        |     | ----- |     |       | 0     | 2.1   | 2.5   | 0     | 0     | 0   |       |     |
| 31        |     | ----- |     | ----- | 0     | ----- | 2.9   | 0     | ----- | 0   | ----- |     |
| TOTAL     |     |       |     |       | 0     | 70.19 | 55.26 | 40.15 | 0     | 0   |       |     |
| MEAN      |     |       |     |       | 0     | 2.34  | 1.78  | 1.30  | 0     | 0   |       |     |
| MAX       |     |       |     |       | 0     | 4.1   | 2.9   | 3.7   | 0     | 0   |       |     |
| MIN       |     |       |     |       | 0     | 0     | .65   | 0     | 0     | 0   |       |     |
| AC-FT     |     |       |     |       | 0     | 139   | 110   | 80    | 0     | 0   |       |     |
| YEAR 1996 | MAX | 4.1   | MIN | 0     | AC-FT | 328   |       |       |       |     |       |     |



# NIOBRARA RIVER BASIN

HUGHES CANAL from Niobrara River, 00069000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1956 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL | AUG | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-----|-----|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | .93   | 0   | 0   | 0     |     |       |     |
| 2         |     |       |     |       | 0     | .81   | 0   | 0   | 0     |     |       |     |
| 3         |     |       |     |       | 0     | .82   | 0   | 0   | 0     |     |       |     |
| 4         |     |       |     |       | 0     | .97   | 0   | 0   | 0     |     |       |     |
| 5         |     |       |     |       | 0     | 1.4   | 0   | 0   | 0     |     |       |     |
| 6         |     |       |     |       | 0     | 1.4   | 0   | 0   | 0     |     |       |     |
| 7         |     |       |     |       | 0     | 1.3   | 0   | 0   | 0     |     |       |     |
| 8         |     |       |     |       | 0     | 1.3   | 0   | 0   | 0     |     |       |     |
| 9         |     |       |     |       | 0     | 1.2   | 0   | 0   | 0     |     |       |     |
| 10        |     |       |     |       | 0     | 1.3   | 0   | 0   | 0     |     |       |     |
| 11        |     |       |     |       | 0     | .76   | 0   | 0   | 0     |     |       |     |
| 12        |     |       |     |       | 0     | .02   | 0   | 0   | 0     |     |       |     |
| 13        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 14        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 15        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 16        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 17        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 18        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 19        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 20        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 21        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 22        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 23        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 24        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 25        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 26        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 27        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 28        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 29        |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 30        |     | ----- |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| 31        |     | ----- |     | ----- | .74   | ----- | 0   | 0   | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 0.74  | 11.91 | 0   | 0   | 0     |     |       |     |
| MEAN      |     |       |     |       | .024  | .40   | 0   | 0   | 0     |     |       |     |
| MAX       |     |       |     |       | .74   | 1.4   | 0   | 0   | 0     |     |       |     |
| MIN       |     |       |     |       | 0     | 0     | 0   | 0   | 0     |     |       |     |
| AC-FT     |     |       |     |       | 1.5   | 24    | 0   | 0   | 0     |     |       |     |
| YEAR 1996 | MAX | 1.4   | MIN | 0     | AC-FT | 25    |     |     |       |     |       |     |

# NIOBRARA RIVER BASIN

PIONEER CANAL from Niobrara River, 00123000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG  | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 5.1   | 5.2   | 0     | 2.1  | 0     | 0   |       |     |
| 2         |     |       |     | 0     | 5.1   | 5.1   | 0     | 2.2  | 0     | 0   |       |     |
| 3         |     |       |     | 0     | 5.2   | 5.0   | 0     | 2.2  | 0     | 0   |       |     |
| 4         |     |       |     | 0     | 5.2   | 3.8   | 0     | 2.2  | 0     | 0   |       |     |
| 5         |     |       |     | 0     | 5.3   | .22   | .09   | .15  | 0     | 0   |       |     |
| 6         |     |       |     | 0     | 5.2   | 0     | .07   | 0    | 0     | 0   |       |     |
| 7         |     |       |     | 0     | 5.2   | 0     | 1.8   | 0    | 0     | 0   |       |     |
| 8         |     |       |     | 0     | 5.2   | 0     | 2.3   | 0    | 0     | 0   |       |     |
| 9         |     |       |     | 0     | 5.2   | 0     | 2.3   | 0    | 0     | 0   |       |     |
| 10        |     |       |     | 0     | 5.0   | 0     | 2.4   | 0    | 0     | 0   |       |     |
| 11        |     |       |     | 0     | 4.7   | 0     | 2.4   | 0    | 0     | 0   |       |     |
| 12        |     |       |     | 0     | 4.6   | 0     | 2.5   | 0    | 0     | 0   |       |     |
| 13        |     |       |     | 0     | 4.5   | 0     | 2.5   | 0    | 0     | 0   |       |     |
| 14        |     |       |     | 0     | 4.3   | 0     | 2.6   | 0    | 0     | 0   |       |     |
| 15        |     |       |     | 0     | 3.9   | 0     | 2.7   | 0    | 0     | 0   |       |     |
| 16        |     |       |     | 0     | 3.8   | 0     | 2.8   | 0    | 0     | 0   |       |     |
| 17        |     |       |     | 0     | 4.0   | 0     | 2.7   | 0    | 0     | 0   |       |     |
| 18        |     |       |     | 0     | 3.8   | 0     | 2.7   | 0    | 0     | 0   |       |     |
| 19        |     |       |     | 0     | 3.7   | 0     | 2.5   | 0    | 0     | 0   |       |     |
| 20        |     |       |     | 0     | 3.7   | 0     | 2.3   | 0    | 0     | 0   |       |     |
| 21        |     |       |     | 0     | 3.6   | 0     | 2.2   | 0    | 0     | 0   |       |     |
| 22        |     |       |     | 0     | 3.6   | 0     | 2.1   | 0    | 0     | 0   |       |     |
| 23        |     |       |     | 0     | 3.9   | 0     | 2.0   | 0    | 0     | 0   |       |     |
| 24        |     |       |     | 0     | 4.2   | 0     | 1.9   | 0    | 0     | 0   |       |     |
| 25        |     |       |     | 0     | 4.3   | 0     | 1.9   | 0    | 0     | 0   |       |     |
| 26        |     |       |     | 0     | 4.5   | 0     | 1.9   | 0    | 0     | 0   |       |     |
| 27        |     |       |     | 0     | 5.0   | 0     | 1.9   | 0    | 0     | 0   |       |     |
| 28        |     |       |     | 0     | 5.2   | 0     | 2.0   | 0    | 0     | 0   |       |     |
| 29        |     |       |     | .51   | 5.3   | 0     | 2.0   | 0    | 0     | 0   |       |     |
| 30        |     | ----- |     | 5.1   | 5.4   | 0     | 2.0   | 0    | 0     | 0   |       |     |
| 31        |     | ----- |     | ----- | 5.4   | ----- | 2.1   | 0    | ----- | 0   | ----- |     |
| TOTAL     |     |       |     | 5.61  | 143.1 | 19.32 | 56.66 | 8.85 | 0     | 0   |       |     |
| MEAN      |     |       |     | .19   | 4.62  | .64   | 1.83  | .29  | 0     | 0   |       |     |
| MAX       |     |       |     | 5.1   | 5.4   | 5.2   | 2.8   | 2.2  | 0     | 0   |       |     |
| MIN       |     |       |     | 0     | 3.6   | 0     | 0     | 0    | 0     | 0   |       |     |
| AC-FT     |     |       |     | 11    | 284   | 38    | 112   | 18   | 0     | 0   |       |     |
| YEAR 1996 | MAX | 5.4   | MIN | 0     | AC-FT | 463   |       |      |       |     |       |     |

# NIOBRARA RIVER BASIN

## NIOBRARA RIVER above Box Butte Reservoir, 06454500 - 1996

LOCATION.--NE1/4 Sec. 27-29-50 W., Dawes County, Lat. 42° 27' 35", Long. 103° 10' 15", on right bank 1 mile upstream from high-water line of Box Butte Reservoir and 6 miles east of Marsland.

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

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

PERIOD OF RECORD.--Oct. 1946 - present

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

E indicates estimated daily discharge. Estimated records January 2, 5-7, 17-21, 24-February 5, February 16, 24-March 1, March 7-8, 25-26, April 1-5, September 12-18, November 23-24, December 14-26, Records good except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 186 cubic feet per second August 30, gage height 6.05 feet; minimum daily discharge 8.0 cubic feet per second July 24.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB     | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|---------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 20    | 20E     | 34E   | 38E   | 26    | 34    | 12    | 12    | 16    | 20     | 26    | 28    |
| 2         | 22E   | 20E     | 34    | 38E   | 25    | 31    | 11    | 12    | 16    | 16     | 28    | 26    |
| 3         | 25    | 20E     | 34    | 38E   | 25    | 27    | 11    | 13    | 14    | 19     | 26    | 28    |
| 4         | 22    | 20E     | 34    | 39E   | 26    | 27    | 13    | 16    | 14    | 18     | 28    | 27    |
| 5         | 21E   | 20E     | 34    | 39E   | 26    | 31    | 25    | 21    | 13    | 20     | 28    | 26    |
| 6         | 22E   | 21      | 33    | 39    | 26    | 29    | 14    | 15    | 14    | 20     | 28    | 28    |
| 7         | 22E   | 24      | 31E   | 39    | 24    | 28    | 9.4   | 15    | 14    | 21     | 28    | 27    |
| 8         | 20    | 62      | 30E   | 40    | 24    | 27    | 9.9   | 14    | 13    | 21     | 27    | 25    |
| 9         | 22    | 33      | 28    | 40    | 26    | 26    | 9.4   | 12    | 14    | 20     | 27    | 27    |
| 10        | 22    | 34      | 30    | 38    | 27    | 22    | 9.3   | 12    | 13    | 19     | 27    | 31    |
| 11        | 21    | 29      | 37    | 38    | 29    | 20    | 9.8   | 12    | 13    | 19     | 26    | 33    |
| 12        | 21    | 33      | 39    | 38    | 29    | 19    | 10    | 11    | 14E   | 19     | 27    | 31    |
| 13        | 22    | 34      | 42    | 40    | 21    | 17    | 11    | 12    | 15E   | 20     | 27    | 33    |
| 14        | 23    | 36      | 37    | 41    | 17    | 15    | 12    | 11    | 16E   | 21     | 27    | 33E   |
| 15        | 24    | 39      | 38    | 42    | 13    | 15    | 11    | 24    | 17E   | 21     | 27    | 30E   |
| 16        | 25    | 36E     | 41    | 41    | 14    | 16    | 10    | 32    | 18E   | 21     | 26    | 28E   |
| 17        | 24E   | 38      | 42    | 41    | 15    | 16    | 9.5   | 12    | 19E   | 22     | 24    | 28E   |
| 18        | 22E   | 40      | 42    | 40    | 14    | 15    | 9.0   | 12    | 20E   | 22     | 26    | 26E   |
| 19        | 22E   | 41      | 39    | 40    | 13    | 15    | 9.3   | 11    | 21E   | 23     | 28    | 28E   |
| 20        | 21E   | 42      | 38    | 41    | 13    | 15    | 8.8   | 10    | 22    | 23     | 30    | 28E   |
| 21        | 20E   | 46      | 38    | 40    | 12    | 15    | 8.4   | 11    | 20    | 23     | 30    | 28E   |
| 22        | 20    | 49      | 39    | 38    | 12    | 15    | 8.7   | 10    | 19    | 23     | 32    | 27E   |
| 23        | 20    | 48      | 39    | 39    | 14    | 16    | 8.4   | 9.9   | 19    | 24     | 29E   | 27E   |
| 24        | 19E   | 35E     | 40    | 38    | 18    | 15    | 8.0   | 9.8   | 19    | 24     | 28E   | 26E   |
| 25        | 19E   | 35E     | 35E   | 36    | 18    | 14    | 8.9   | 9.4   | 20    | 25     | 27    | 24E   |
| 26        | 20E   | 33E     | 30E   | 32    | 23    | 13    | 12    | 9.8   | 20    | 27     | 28    | 24E   |
| 27        | 20E   | 33E     | 28    | 31    | 35    | 12    | 13    | 9.4   | 19    | 28     | 27    | 22    |
| 28        | 21E   | 33E     | 33    | 31    | 38    | 12    | 13    | 9.4   | 19    | 29     | 28    | 24    |
| 29        | 20E   | 34E     | 36    | 30    | 41    | 12    | 13    | 37    | 21    | 31     | 29    | 25    |
| 30        | 20E   | -----   | 37    | 21    | 40    | 13    | 13    | 116   | 20    | 31     | 29    | 29    |
| 31        | 20E   | -----   | 38    | ----- | 40    | ----- | 13    | 58    | ----- | 30     | ----- | 28    |
| TOTAL     | 662   | 988     | 1,110 | 1,126 | 724   | 582   | 343.8 | 578.7 | 514   | 703    | 832   | 858   |
| MEAN      | 21.4  | 34.1    | 35.8  | 37.5  | 23.4  | 19.4  | 11.1  | 18.7  | 17.1  | 22.7   | 27.7  | 27.7  |
| MAX       | 25    | 62      | 42    | 42    | 41    | 34    | 25    | 116   | 22    | 31     | 32    | 33    |
| MIN       | 19    | 20      | 28    | 21    | 12    | 12    | 8.0   | 9.4   | 13    | 18     | 24    | 22    |
| AC-FT     | 1,310 | 1,960   | 2,200 | 2,230 | 1,440 | 1,150 | 682   | 1,150 | 1,020 | 1,390  | 1,650 | 1,700 |
| YEAR 1996 | TOTAL | 9,021.5 | MEAN  | 24.6  | MAX   | 116   | MIN   | 8.0   | AC-FT | 17,890 |       |       |



# NIOBRARA RIVER BASIN

## NIOBRARA RIVER below Box Butte Reservoir, 06455500 - 1996

LOCATION.--SE1/4 Sec. 28-29-49 W., Dawes County, Lat. 42° 27' 25", Long. 103° 04' 05", on left bank 0.2 mile downstream from Box Butte Reservoir and nine miles north of Hemingford.

DRAINAGE AREA.--Approximately 460 square miles.

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

PERIOD OF RECORD.--Oct. 1946 - present

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 161 cubic feet per second July 4, gage height 4.23 feet; minimum daily discharge 0.74 cubic feet per second on August 20.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB      | MAR   | APR   | MAY  | JUN   | JUL   | AUG      | SEP    | OCT    | NOV   | DEC   |
|-----------|-------|----------|-------|-------|------|-------|-------|----------|--------|--------|-------|-------|
| 1         | 1.0   | .90      | .81   | 1.1   | 1.1  | 1.3   | 101   | 100      | 45     | .79    | 1.0   | .93   |
| 2         | 1.0   | .91      | .81   | 1.1   | 1.1  | 1.2   | 99    | 100      | 46     | .78    | .98   | .93   |
| 3         | .97   | .92      | .81   | 1.1   | 1.1  | 1.3   | 117   | 98       | 42     | .78    | .98   | .94   |
| 4         | .93   | .90      | .81   | 1.1   | 1.1  | 1.3   | 146   | 95       | 25     | .79    | .98   | .95   |
| 5         | .93   | .87      | .81   | 1.1   | 1.1  | 1.3   | 158   | 83       | 1.1    | .84    | .98   | .95   |
| 6         | .95   | .91      | .81   | 1.1   | 1.1  | 1.3   | 158   | 71       | 1.1    | .84    | .97   | .95   |
| 7         | .93   | .93      | .81   | 1.0   | 1.1  | 1.3   | 152   | 80       | 1.1    | .86    | .94   | .94   |
| 8         | .93   | .95      | .81   | 1.1   | 1.1  | 1.3   | 134   | 91       | 1.0    | .82    | .94   | .95   |
| 9         | .93   | .95      | .91   | 1.1   | 1.1  | 1.3   | 105   | 96       | .97    | .81    | .94   | .96   |
| 10        | .94   | .91      | .94   | 1.1   | 1.2  | 1.3   | 86    | 93       | .95    | .82    | .93   | .97   |
| 11        | .94   | .92      | 1.1   | 1.1   | 1.2  | 1.3   | 98    | 79       | .95    | .84    | .94   | .96   |
| 12        | .95   | .93      | 1.1   | 1.2   | 1.2  | 1.3   | 121   | 65       | .95    | .86    | .94   | .98   |
| 13        | .94   | .93      | 1.1   | 1.2   | 1.2  | 1.3   | 134   | 67       | .95    | .87    | .95   | .98   |
| 14        | .93   | .91      | 1.1   | 1.1   | 1.2  | 1.4   | 125   | 77       | .95    | .86    | .95   | .98   |
| 15        | .96   | .90      | 1.1   | 1.1   | 1.2  | 1.4   | 120   | 70       | .95    | .84    | .95   | .97   |
| 16        | .97   | .93      | 1.1   | 1.1   | 1.2  | 1.4   | 122   | 40       | .93    | .85    | .97   | .95E  |
| 17        | .94   | .95      | 1.1   | 1.1   | 1.2  | 1.3   | 122   | .89      | .97    | .94    | .98   | .94   |
| 18        | .93   | .93      | 1.1   | 1.1   | 1.2  | 1.4   | 131   | .87      | 1.1    | .93    | .98   | .95   |
| 19        | .93   | .91      | 1.1   | 1.1   | 1.2  | 1.4   | 131   | .81      | 1.0    | .93    | .98   | .96   |
| 20        | .93   | .88      | 1.1   | 1.2   | 1.2  | 1.4   | 129   | .74      | .95    | .93    | .98   | .98   |
| 21        | .95   | .89      | 1.1   | 1.2   | 1.2  | 1.4   | 128   | 51       | .90    | .95    | .98   | .98   |
| 22        | .95   | .87      | 1.1   | 1.1   | 1.3  | 1.4   | 128   | 98       | .90    | .93    | .98   | .98   |
| 23        | .95   | .86      | 1.1   | 1.1   | 1.4  | 1.4   | 118   | 104      | .87    | .95    | .96   | .98   |
| 24        | .96   | .84      | 1.1   | 1.1   | 1.4  | 1.4   | 110   | 94       | .87    | .95    | .95   | .97   |
| 25        | .98   | .82      | 1.1   | 1.0   | 1.3  | 1.3   | 104   | 108      | .86    | .95    | .95   | .95   |
| 26        | .97   | .81      | 1.1   | 1.0   | 1.6  | 1.3   | 87    | 135      | .84    | 1.0    | .95   | .95   |
| 27        | .94   | .81      | 1.1   | 1.1   | 1.6  | 1.3   | 79    | 134      | .84    | 1.0    | .94   | .94   |
| 28        | .93   | .80      | 1.2   | 1.1   | 1.4  | 1.3   | 88    | 113      | .81    | 1.0    | .93   | .93   |
| 29        | .94   | .78      | 1.1   | 1.1   | 1.4  | 1.3   | 97    | 89       | .81    | 1.1    | .93   | .95   |
| 30        | .95   | -----    | 1.1   | 1.1   | 1.4  | 1.3   | 95    | 63       | .60    | 1.1    | .93   | .98   |
| 31        | .94   | -----    | 1.1   | ----- | 1.3  | ----- | 98    | 45       | -----  | 1.1    | ----- | .98   |
| TOTAL     | 29.39 | 25.82    | 31.43 | 33.1  | 38.4 | 39.9  | 3,621 | 2,342.31 | 182.42 | 28.01  | 28.76 | 29.71 |
| MEAN      | .95   | .89      | 1.01  | 1.10  | 1.24 | 1.33  | 117   | 75.6     | 6.08   | .90    | .96   | .96   |
| MAX       | 1.0   | .95      | 1.2   | 1.2   | 1.6  | 1.4   | 158   | 135      | 46     | 1.1    | 1.0   | .98   |
| MIN       | .93   | .78      | .81   | 1.0   | 1.1  | 1.2   | 79    | .74      | .80    | .78    | .93   | .93   |
| AC-FT     | 58    | 51       | 62    | 66    | 76   | 79    | 7,180 | 4,650    | 362    | 56     | 57    | 59    |
| YEAR 1996 | TOTAL | 6,430.25 | MEAN  | 17.6  | MAX  | 158   | MIN   | .74      | AC-FT  | 12,750 |       |       |

# NIOBRARA RIVER BASIN

MONTAGUE CANAL from Niobrara River, 00102000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

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

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No water diverted in 1996.

# NIOBRARA RIVER BASIN

LICHTER CANAL from Niobrara River, 00081000 - 1996

LOCATION.--NE1/4SW1/4 Sec. 26-29-48 W. near Dunlap

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

PERIOD OF RECORD.--1956 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG | SEP   | OCT | NOV | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-----|-------|-----|-----|-----|
| 1         |     |       |     |       | 0     | 0     | 0     | 0   | 0     |     |     |     |
| 2         |     |       |     |       | 0     | 0     | 0     | 0   | 0     |     |     |     |
| 3         |     |       |     |       | 0     | 0     | 0     | 0   | 0     |     |     |     |
| 4         |     |       |     |       | 0     | 0     | 0     | 0   | 0     |     |     |     |
| 5         |     |       |     |       | 0     | 0     | 0     | 0   | 0     |     |     |     |
| 6         |     |       |     |       | 0     | 0     | 0     | 0   | 0     |     |     |     |
| 7         |     |       |     |       | 0     | 0     | 0     | 0   | 0     |     |     |     |
| 8         |     |       |     |       | 0     | 0     | 0     | 0   | 0     |     |     |     |
| 9         |     |       |     |       | 0     | 0     | 0     | 0   | 0     |     |     |     |
| 10        |     |       |     |       | 0     | 0     | 0     | 0   | 0     |     |     |     |
| 11        |     |       |     |       | 0     | 0     | 0     | 0   | 0     |     |     |     |
| 12        |     |       |     |       | 0     | .63   | 1.6   | 0   | 0     |     |     |     |
| 13        |     |       |     |       | 0     | 1.9   | 2.7   | 0   | 0     |     |     |     |
| 14        |     |       |     |       | 0     | .78   | 2.7   | 0   | 0     |     |     |     |
| 15        |     |       |     |       | 0     | 1.1   | 2.7   | 0   | 0     |     |     |     |
| 16        |     |       |     |       | 0     | 1.3   | 2.7   | 0   | 0     |     |     |     |
| 17        |     |       |     |       | 0     | 2.0   | 2.7   | 0   | 0     |     |     |     |
| 18        |     |       |     |       | 0     | 2.7   | 2.8   | 0   | 0     |     |     |     |
| 19        |     |       |     |       | 0     | 2.6   | 2.9   | 0   | 0     |     |     |     |
| 20        |     |       |     |       | 0     | 1.3   | 2.9   | 0   | 0     |     |     |     |
| 21        |     |       |     |       | 0     | 1.2   | .87   | 0   | 0     |     |     |     |
| 22        |     |       |     |       | 0     | 1.7   | 0     | 0   | 0     |     |     |     |
| 23        |     |       |     |       | 0     | 2.3   | 0     | 0   | 0     |     |     |     |
| 24        |     |       |     |       | 0     | 2.2   | 0     | 0   | 0     |     |     |     |
| 25        |     |       |     |       | 0     | .97   | 0     | 0   | 0     |     |     |     |
| 26        |     |       |     |       | 0     | .55   | 0     | 0   | 0     |     |     |     |
| 27        |     |       |     |       | 0     | .13   | 0     | 0   | 0     |     |     |     |
| 28        |     |       |     |       | 0     | 0     | 0     | 0   | 0     |     |     |     |
| 29        |     |       |     |       | 0     | 0     | 0     | 0   | 0     |     |     |     |
| 30        |     | ----- |     | ----- | 0     | 0     | 0     | 0   | 0     |     |     |     |
| 31        |     | ----- |     | ----- | 0     | ----- | 0     | 0   | ----- |     |     |     |
| TOTAL     |     |       |     |       | 0     | 23.36 | 24.77 | 0   | 0     |     |     |     |
| MEAN      |     |       |     |       | 0     | .78   | .80   | 0   | 0     |     |     |     |
| MAX       |     |       |     |       | 0     | 2.7   | 2.9   | 0   | 0     |     |     |     |
| MIN       |     |       |     |       | 0     | 0     | 0     | 0   | 0     |     |     |     |
| AC-FT     |     |       |     |       | 0     | 46    | 49    | 0   | 0     |     |     |     |
| YEAR 1996 | MAX | 2.9   | MIN | 0     | AC-FT | 95    |       |     |       |     |     |     |

# NIOBRARA RIVER BASIN

**MIRAGE FLATS CANAL from Niobrara River, 00100000 - 1996**

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

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

PERIOD OF RECORD.--1948 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL     | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|---------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 0      | 8.2     | 111   | 68    |     |       |     |
| 2         |     |       |     |       | 0     | 0      | 61      | 113   | 69    |     |       |     |
| 3         |     |       |     |       | 0     | 0      | 112     | 114   | 70    |     |       |     |
| 4         |     |       |     |       | 0     | 0      | 136     | 117   | 29    |     |       |     |
| 5         |     |       |     |       | 0     | 0      | 153     | 117   | 0     |     |       |     |
| 6         |     |       |     |       | 0     | 0      | 155     | 88    | 0     |     |       |     |
| 7         |     |       |     |       | 0     | 0      | 147     | 83    | 0     |     |       |     |
| 8         |     |       |     |       | 0     | 0      | 141     | 100   | 0     |     |       |     |
| 9         |     |       |     |       | 0     | 0      | 113     | 106   | 0     |     |       |     |
| 10        |     |       |     |       | 0     | 0      | 82      | 107   | 0     |     |       |     |
| 11        |     |       |     |       | 0     | 0      | 99      | 107   | 0     |     |       |     |
| 12        |     |       |     |       | 0     | 0      | 111     | 87    | 0     |     |       |     |
| 13        |     |       |     |       | 0     | 0      | 136     | 75    | 0     |     |       |     |
| 14        |     |       |     |       | 0     | 0      | 137     | 85    | 0     |     |       |     |
| 15        |     |       |     |       | 0     | 0      | 131     | 96    | 0     |     |       |     |
| 16        |     |       |     |       | 0     | 0      | 136     | 62    | 0     |     |       |     |
| 17        |     |       |     |       | 0     | 0      | 123     | 23    | 0     |     |       |     |
| 18        |     |       |     |       | 0     | 0      | 137     | 32    | 0     |     |       |     |
| 19        |     |       |     |       | 0     | 0      | 135     | 32    | 0     |     |       |     |
| 20        |     |       |     |       | 0     | 0      | 152     | 30    | 0     |     |       |     |
| 21        |     |       |     |       | 0     | 0      | 132     | 64    | 0     |     |       |     |
| 22        |     |       |     |       | 0     | 0      | 129     | 117   | 0     |     |       |     |
| 23        |     |       |     |       | 0     | 0      | 129     | 124   | 0     |     |       |     |
| 24        |     |       |     |       | 0     | 0      | 114     | 104   | 0     |     |       |     |
| 25        |     |       |     |       | 0     | 0      | 108     | 113   | 0     |     |       |     |
| 26        |     |       |     |       | 0     | 0      | 96      | 142   | 0     |     |       |     |
| 27        |     |       |     |       | 0     | 0      | 87      | 141   | 0     |     |       |     |
| 28        |     |       |     |       | 0     | 0      | 92      | 125   | 0     |     |       |     |
| 29        |     |       |     |       | 0     | 0      | 109     | 115   | 0     |     |       |     |
| 30        |     | ----- |     |       | 0     | 0      | 105     | 96    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 0     | -----  | 105     | 62    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 0     | 0      | 3,591.2 | 2,888 | 236   |     |       |     |
| MEAN      |     |       |     |       | 0     | 0      | 116     | 93.2  | 7.87  |     |       |     |
| MAX       |     |       |     |       | 0     | 0      | 155     | 142   | 70    |     |       |     |
| MIN       |     |       |     |       | 0     | 0      | 8.2     | 23    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 0     | 0      | 7,120   | 5,730 | 468   |     |       |     |
| YEAR 1996 | MAX | 155   | MIN | 0     | AC-FT | 13,320 |         |       |       |     |       |     |



# NIOBRARA RIVER BASIN

POTMESIL CANAL from Niobrara River, 00124000 - 1996

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

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

PERIOD OF RECORD.--1956 - present

REMARKS.--E indicates estimated daily discharge

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 0      | 7.1   | 5.7   | 0     | 0   |       |     |
| 2         |     |       |     |       | 0     | 0      | 5.7   | 5.3   | 0     | 0   |       |     |
| 3         |     |       |     |       | 0     | 0      | 5.8   | 5.3   | 0     | 0   |       |     |
| 4         |     |       |     |       | 0     | 0      | 6.4   | 1.6   | 0     | 0   |       |     |
| 5         |     |       |     |       | 0     | 1.5    | 7.0   | 0     | 0     | 0   |       |     |
| 6         |     |       |     |       | 0     | 1.0    | 6.7   | .90   | 0     | 0   |       |     |
| 7         |     |       |     |       | 0     | 0      | 6.6   | 4.1   | 0     | 0   |       |     |
| 8         |     |       |     |       | 0     | 1.4    | 6.1   | 5.7   | 0     | 0   |       |     |
| 9         |     |       |     |       | 0     | 8.0    | 5.5   | 6.1   | 0     | 0   |       |     |
| 10        |     |       |     |       | 0     | 7.9    | 5.5   | 4.3   | 0     | 0   |       |     |
| 11        |     |       |     |       | 0     | 8.0    | 6.3   | 0     | 0     | 0   |       |     |
| 12        |     |       |     |       | 0     | 7.3    | 6.5   | 1.1   | 0     | 0   |       |     |
| 13        |     |       |     |       | 0     | 7.3    | 7.2   | 4.2   | 0     | 0   |       |     |
| 14        |     |       |     |       | 0     | 7.5    | 2.7   | 4.7   | 0     | 0   |       |     |
| 15        |     |       |     |       | 0     | 7.6    | 0     | 2.0   | 0     | 0   |       |     |
| 16        |     |       |     |       | 0     | 6.4    | 1.2   | 0     | 0     | 0   |       |     |
| 17        |     |       |     |       | 0     | 7.2    | 5.1   | 0     | 0     | 0   |       |     |
| 18        |     |       |     |       | 0     | 7.2    | 5.7   | 0     | 0     | 0   |       |     |
| 19        |     |       |     |       | 0     | 7.5    | 5.7   | 0     | 0     | 0   |       |     |
| 20        |     |       |     |       | 0     | 6.3    | 5.3   | 0     | 0     | 0   |       |     |
| 21        |     |       |     |       | 0     | 0      | 5.3   | 0     | 0     | 0   |       |     |
| 22        |     |       |     |       | 0     | 0      | 5.3   | 5.4   | 0     | 0   |       |     |
| 23        |     |       |     |       | 0     | 0      | 5.0   | 5.0 E | 0     | 0   |       |     |
| 24        |     |       |     |       | 0     | 4.0    | 4.6   | 5.3 E | 0     | 0   |       |     |
| 25        |     |       |     |       | 0     | 7.6    | 4.6   | 5.7 E | 0     | 0   |       |     |
| 26        |     |       |     |       | 0     | 7.6    | 4.0   | 6.5 E | 0     | 0   |       |     |
| 27        |     |       |     |       | 0     | 3.5    | 3.4   | 7.1   | 0     | 0   |       |     |
| 28        |     |       |     |       | 0     | .99    | 2.9   | 6.3   | 0     | 0   |       |     |
| 29        |     |       |     |       | 0     | 1.7    | 0     | 2.0   | 0     | 0   |       |     |
| 30        |     | ----- |     |       | 0     | 1.7    | 0     | 0     | 0     | 0   |       |     |
| 31        |     | ----- |     | ----- | 0     | -----  | 1.6   | 0     | ----- | 0   | ----- |     |
| TOTAL     |     |       |     |       | 0     | 119.69 | 144.8 | 94.20 | 0     | 0   |       |     |
| MEAN      |     |       |     |       | 0     | 3.99   | 4.67  | 3.04  | 0     | 0   |       |     |
| MAX       |     |       |     |       | 0     | 8.0    | 7.2   | 7.1   | 0     | 0   |       |     |
| MIN       |     |       |     |       | 0     | 0      | 0     | 0     | 0     | 0   |       |     |
| AC-FT     |     |       |     |       | 0     | 237    | 287   | 187   | 0     | 0   |       |     |
| YEAR 1996 | MAX | 8.0   | MIN | 0     | AC-FT | 711    |       |       |       |     |       |     |

# NIOBRARA RIVER BASIN

**SNAKE RIVER at Doughboy, 06459175 - 1996**

LOCATION.--N61/4NW1/4 Sec. 2-30-34 W., Cherry County, Lat. 42°36'51", Long. 101°16'38", on left bank 21 feet downstream from centerline of Doughboy bridge, 24 miles southwest of Nenzel.

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

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

PERIOD OF RECORD.--1981 - present

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

E indicates estimated daily discharge. Estimated daily discharges January 6,7, 17-31, February 1-6, 26-29, March 1-9, 24-26, December 15-30. Records good except for periods of estimated record, which 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 287 cubic feet per second February 7, gage height 3.04 feet; maximum gage height 4.23 feet February 3 due to backwater from ice; minimum daily discharge 110 cubic feet per second estimated February 1, 2.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP    | OCT     | NOV    | DEC    |
|-----------|-------|--------|-------|-------|--------|-------|-------|-------|--------|---------|--------|--------|
| 1         | 166   | 110E   | 152E  | 167   | 175    | 197   | 161   | 175   | 161    | 167     | 197    | 161    |
| 2         | 164   | 110E   | 152E  | 169   | 174    | 192   | 157   | 167   | 161    | 162     | 197    | 159    |
| 3         | 168   | 120E   | 158E  | 161   | 175    | 182   | 157   | 161   | 157    | 158     | 194    | 155    |
| 4         | 171   | 140E   | 150E  | 159   | 171    | 175   | 157   | 166   | 159    | 163     | 193    | 154    |
| 5         | 169   | 170E   | 144E  | 161   | 168    | 175   | 158   | 165   | 157    | 169     | 188    | 155    |
| 6         | 160E  | 200E   | 140E  | 164   | 169    | 170   | 157   | 159   | 159    | 170     | 184    | 157    |
| 7         | 166E  | 228    | 138E  | 164   | 171    | 159   | 158   | 156   | 165    | 174     | 177    | 155    |
| 8         | 181   | 206    | 140E  | 165   | 175    | 159   | 158   | 157   | 166    | 174     | 177    | 157    |
| 9         | 185   | 216    | 150E  | 167   | 183    | 158   | 156   | 156   | 166    | 171     | 178    | 161    |
| 10        | 183   | 199    | 159   | 166   | 179    | 158   | 158   | 165   | 164    | 170     | 174    | 168    |
| 11        | 180   | 184    | 164   | 164   | 178    | 157   | 156   | 163   | 157    | 175     | 175    | 175    |
| 12        | 179   | 187    | 166   | 157   | 180    | 155   | 156   | 159   | 156    | 179     | 176    | 161    |
| 13        | 182   | 198    | 166   | 160   | 180    | 153   | 156   | 156   | 159    | 178     | 176    | 184    |
| 14        | 177   | 205    | 159   | 162   | 178    | 152   | 156   | 155   | 159    | 179     | 173    | 178    |
| 15        | 172   | 194    | 159   | 171   | 176    | 159   | 158   | 159   | 161    | 179     | 172    | 170E   |
| 16        | 175   | 190    | 159   | 181   | 181    | 162   | 159   | 168   | 161    | 181     | 174    | 168E   |
| 17        | 160E  | 183    | 157   | 183   | 176    | 160   | 158   | 166   | 161    | 177     | 163    | 160E   |
| 18        | 150E  | 190    | 158   | 171   | 174    | 157   | 153   | 162   | 189    | 177     | 165    | 154E   |
| 19        | 140E  | 190    | 158   | 172   | 172    | 157   | 155   | 177   | 205    | 186     | 170    | 150E   |
| 20        | 150E  | 194    | 156   | 172   | 169    | 153   | 157   | 177   | 197    | 186     | 173    | 156E   |
| 21        | 140E  | 195    | 160   | 175   | 167    | 154   | 161   | 163   | 184    | 181     | 174    | 160E   |
| 22        | 130E  | 195    | 165   | 175   | 162    | 155   | 165   | 160   | 181    | 184     | 174    | 156E   |
| 23        | 140E  | 184    | 161   | 175   | 168    | 168   | 169   | 161   | 177    | 186     | 169    | 154E   |
| 24        | 130E  | 187    | 144E  | 170   | 179    | 164   | 176   | 160   | 172    | 185     | 161    | 150E   |
| 25        | 135E  | 170    | 140E  | 161   | 175    | 159   | 160   | 162   | 177    | 186     | 160    | 152E   |
| 26        | 130E  | 160E   | 146E  | 157   | 180    | 155   | 160   | 160   | 171    | 194     | 161    | 150E   |
| 27        | 135E  | 150E   | 163   | 160   | 206    | 154   | 160   | 161   | 167    | 196     | 160    | 164E   |
| 28        | 130E  | 152E   | 160   | 176   | 211    | 155   | 164   | 157   | 164    | 198     | 163    | 180E   |
| 29        | 120E  | 156E   | 159   | 171   | 217    | 159   | 159   | 158   | 165    | 206     | 164    | 186E   |
| 30        | 126E  | -----  | 163   | 179   | 216    | 165   | 157   | 158   | 168    | 198     | 160    | 190E   |
| 31        | 120E  | -----  | 163   | ----- | 211    | ----- | 196   | 159   | -----  | 199     | -----  | 196    |
| TOTAL     | 4,814 | 5,163  | 4,809 | 5,035 | 5,596  | 4,878 | 4,968 | 5,028 | 5,046  | 5,588   | 5,222  | 5,096  |
| MEAN      | 155   | 178    | 155   | 168   | 181    | 163   | 160   | 162   | 168    | 180     | 174    | 164    |
| MAX       | 185   | 228    | 166   | 183   | 217    | 197   | 196   | 177   | 205    | 206     | 197    | 196    |
| MIN       | 120   | 110    | 138   | 157   | 162    | 152   | 153   | 155   | 156    | 158     | 160    | 150    |
| AC-FT     | 9,550 | 10,240 | 9,540 | 9,990 | 11,100 | 9,680 | 9,850 | 9,970 | 10,010 | 11,080  | 10,360 | 10,110 |
| YEAR 1996 | TOTAL | 61,243 | MEAN  | 167   | MAX    | 228   | MIN   | 110   | AC-FT  | 121,500 |        |        |

# NIOBRARA RIVER BASIN

**MERRITT RESERVOIR from Snake River, 06459300 - 1996**

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<br>(Feet) | CONTENT<br>(Acre-feet) |
|--------------------------|---------------------|------------------------|
| Top of conservation pool | 2946.0              | 74,486                 |
| Top of dead storage      | 2875.0              | 1,614                  |

## DAILY CONTENTS IN ACRE-FEET FOR 1996

| Day       | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL     | AUG     | SEP    | OCT    | NOV    | DEC    |
|-----------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| 1         | 68,830 | 68,290 | 68,830 | 68,560 | 74,490 | 75,660 | 73,630  | 50,260  | 37,490 | 47,420 | 59,660 | 69,670 |
| 2         | 68,830 | 68,290 | 68,830 | 68,560 | 74,490 | 75,660 | 73,340  | 49,710  | 37,490 | 47,620 | 60,160 | 69,670 |
| 3         | 68,830 | 68,290 | 68,830 | 68,830 | 74,490 | 75,370 | 72,480  | 49,070  | 37,330 | 48,240 | 60,660 | 69,670 |
| 4         | 68,830 | 68,290 | 68,830 | 68,830 | 74,490 | 75,370 | 71,910  | 48,450  | 37,000 | 48,660 | 61,170 | 69,670 |
| 5         | 68,830 | 68,560 | 69,110 | 69,390 | 74,490 | 75,370 | 71,060  | 48,040  | 36,670 | 49,070 | 61,680 | 69,950 |
| 6         | 69,110 | 68,560 | 69,110 | 69,390 | 74,490 | 75,370 | 70,230  | 48,240  | 36,030 | 49,500 | 62,450 | 69,950 |
| 7         | 69,110 | 68,830 | 69,110 | 69,670 | 74,490 | 75,080 | 69,950  | 48,240  | 35,780 | 49,930 | 62,960 | 69,950 |
| 8         | 69,110 | 69,110 | 69,110 | 69,950 | 74,490 | 75,080 | 69,110  | 48,240  | 36,340 | 50,360 | 63,220 | 69,950 |
| 9         | 69,110 | 69,390 | 69,110 | 69,950 | 74,490 | 74,780 | 68,560  | 48,450  | 36,840 | 50,790 | 63,480 | 69,950 |
| 10        | 69,110 | 69,670 | 69,110 | 70,230 | 74,780 | 74,780 | 67,740  | 48,040  | 37,000 | 51,010 | 63,740 | 69,950 |
| 11        | 69,110 | 69,950 | 69,110 | 70,500 | 74,780 | 74,780 | 66,930  | 47,620  | 37,330 | 51,220 | 64,270 | 69,950 |
| 12        | 69,110 | 69,950 | 69,110 | 70,500 | 74,780 | 74,780 | 66,390  | 47,010  | 37,650 | 51,440 | 64,800 | 69,950 |
| 13        | 69,110 | 69,950 | 69,110 | 70,780 | 74,780 | 74,200 | 65,320  | 46,210  | 37,980 | 51,440 | 65,060 | 69,950 |
| 14        | 69,110 | 69,950 | 69,110 | 70,780 | 74,780 | 74,490 | 64,530  | 45,420  | 38,320 | 51,660 | 65,590 | 69,950 |
| 15        | 69,110 | 69,950 | 69,110 | 71,060 | 74,780 | 74,490 | 64,000  | 44,640  | 38,660 | 51,880 | 66,390 | 69,670 |
| 16        | 69,110 | 69,950 | 69,110 | 71,060 | 75,080 | 74,490 | 63,220  | 44,070  | 39,000 | 52,330 | 66,660 | 69,670 |
| 17        | 69,110 | 69,670 | 69,110 | 71,340 | 75,080 | 74,490 | 62,190  | 43,680  | 39,340 | 52,780 | 66,930 | 69,390 |
| 18        | 68,830 | 69,670 | 69,110 | 68,830 | 75,080 | 74,490 | 61,420  | 43,490  | 39,860 | 53,230 | 67,200 | 68,830 |
| 19        | 68,830 | 69,670 | 69,110 | 71,910 | 75,080 | 74,490 | 60,660  | 43,300  | 40,750 | 53,680 | 67,740 | 68,290 |
| 20        | 68,830 | 69,670 | 69,110 | 71,910 | 74,780 | 74,490 | 59,660  | 42,930  | 41,460 | 54,140 | 69,110 | 68,020 |
| 21        | 68,830 | 69,670 | 69,110 | 72,190 | 74,780 | 74,490 | 58,670  | 42,560  | 42,200 | 54,610 | 69,110 | 68,020 |
| 22        | 68,830 | 69,670 | 69,110 | 72,190 | 74,780 | 74,490 | 57,690  | 42,200  | 42,750 | 55,070 | 69,390 | 68,290 |
| 23        | 68,830 | 69,670 | 68,830 | 72,770 | 74,490 | 74,490 | 56,970  | 41,460  | 43,300 | 55,310 | 68,830 | 68,290 |
| 24        | 68,830 | 69,390 | 68,830 | 73,340 | 74,490 | 74,490 | 56,250  | 40,930  | 43,880 | 55,310 | 68,830 | 68,560 |
| 25        | 68,830 | 69,390 | 68,830 | 73,910 | 74,490 | 74,490 | 55,310  | 40,750  | 44,450 | 56,000 | 68,830 | 68,560 |
| 26        | 68,560 | 69,390 | 68,830 | 74,200 | 74,490 | 74,490 | 54,610  | 40,040  | 45,020 | 56,490 | 68,830 | 68,830 |
| 27        | 68,560 | 69,110 | 68,830 | 74,200 | 75,080 | 74,490 | 53,910  | 39,340  | 45,420 | 56,970 | 68,831 | 68,830 |
| 28        | 68,290 | 69,110 | 68,830 | 74,490 | 75,080 | 74,490 | 53,230  | 38,830  | 46,010 | 57,450 | 69,110 | 68,830 |
| 29        | 68,290 | 68,830 | 68,830 | 74,490 | 75,370 | 74,200 | 52,560  | 38,320  | 46,410 | 57,450 | 69,110 | 69,110 |
| 30        | 68,290 | -----  | 68,830 | 74,490 | 75,660 | 73,630 | 51,890  | 37,650  | 47,010 | 58,180 | 69,390 | 69,110 |
| 31        | 68,290 | -----  | 68,830 | -----  | 75,660 | -----  | 51,010  | 37,650  | -----  | 58,920 | -----  | 69,390 |
| MAX       | 69,110 | 69,950 | 69,110 | 74,490 | 75,660 | 75,660 | 73,630  | 50,260  | 47,010 | 58,920 | 69,390 | 69,950 |
| MIN       | 68,290 | 68,290 | 68,830 | 68,560 | 74,490 | 73,630 | 51,010  | 37,650  | 35,780 | 47,420 | 59,660 | 68,020 |
| CHANGE    | 0      | 540    | 0      | 5,660  | 1,170  | -2,030 | -22,620 | -13,360 | 9,360  | 11,910 | 10,470 | 0      |
| YEAR 1996 |        |        | MEAN   | 63,565 | MAX    | 75,660 | MIN     | 35,780  |        |        |        |        |

# NIOBRARA RIVER BASIN

**SNAKE RIVER near Burge, 06459500 - 1996**

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.

E indicates estimated daily discharge. Estimated records February 2-March 10. Record good, except estimated records fair. Natural flow affected since February 1964 by storage in Merritt Reservoir (station 06459300) 2.1 miles upstream.

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

Minimum daily discharge 5.8 cubic feet per second May 24-27, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge 377 cubic feet per second May 31, gage height 2.32 feet; minimum daily discharge 14 cubic feet per second November 11, 12, 17, 18.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   | OCT     | NOV   | DEC    |
|-----------|--------|--------|--------|--------|--------|--------|-------|-------|-------|---------|-------|--------|
| 1         | 205    | 204    | 227E   | 281    | 244    | 361    | 59    | 53    | 32    | 51      | 14    | 202    |
| 2         | 205    | 200E   | 180E   | 224    | 248    | 341    | 56    | 53    | 20    | 53      | 13    | 232    |
| 3         | 205    | 200E   | 180E   | 190    | 251    | 319    | 57    | 55    | 48    | 53      | 13    | 252    |
| 4         | 206    | 200E   | 180E   | 187    | 246    | 205    | 57    | 54    | 48    | 52      | 13    | 252    |
| 5         | 208    | 200E   | 180E   | 191    | 248    | 242    | 57    | 53    | 48    | 50      | 13    | 252    |
| 6         | 208    | 157E   | 198E   | 192    | 251    | 286    | 57    | 54    | 49    | 50      | 14    | 252    |
| 7         | 227    | 200E   | 250E   | 189    | 251    | 276    | 58    | 55    | 51    | 49      | 13    | 252    |
| 8         | 249    | 233E   | 250E   | 192    | 254    | 270    | 58    | 57    | 50    | 48      | 13    | 252    |
| 9         | 252    | 250E   | 250E   | 192    | 263    | 175    | 59    | 56    | 50    | 51      | 13    | 287    |
| 10        | 248    | 250E   | 250E   | 192    | 270    | 261    | 58    | 48    | 49    | 51      | 13    | 309    |
| 11        | 270    | 250E   | 268    | 192    | 274    | 254    | 57    | 47    | 50    | 50      | 12    | 312    |
| 12        | 306    | 267E   | 269    | 192    | 278    | 276    | 57    | 46    | 50    | 50      | 12    | 308    |
| 13        | 305    | 300E   | 272    | 192    | 283    | 277    | 57    | 45    | 50    | 50      | 14    | 307    |
| 14        | 303    | 300E   | 270    | 192    | 284    | 175    | 55    | 45    | 51    | 50      | 14    | 307    |
| 15        | 303    | 300E   | 268    | 192    | 280    | 176    | 55    | 45    | 51    | 50      | 14    | 307    |
| 16        | 303    | 300E   | 265    | 192    | 294    | 182    | 57    | 47    | 51    | 49      | 13    | 307    |
| 17        | 305    | 300E   | 266    | 192    | 297    | 185    | 56    | 46    | 51    | 48      | 12    | 311    |
| 18        | 310    | 300E   | 272    | 195    | 297    | 186    | 55    | 46    | 52    | 48      | 12    | 314    |
| 19        | 312    | 300E   | 272    | 195    | 292    | 185    | 55    | 46    | 54    | 48      | 35    | 282    |
| 20        | 288    | 300E   | 273    | 193    | 278    | 182    | 55    | 46    | 53    | 48      | 140   | 226    |
| 21        | 258    | 300E   | 279    | 188    | 262    | 182    | 53    | 45    | 51    | 50      | 256   | 205    |
| 22        | 256    | 300E   | 281    | 146    | 257    | 183    | 55    | 45    | 51    | 50      | 252   | 205    |
| 23        | 258    | 300E   | 280    | 14     | 246    | 197    | 55    | 45    | 51    | 48      | 256   | 206    |
| 24        | 233    | 300E   | 284    | 14     | 257    | 197    | 54    | 45    | 50    | 50      | 256   | 208    |
| 25        | 205    | 300E   | 280    | 42     | 257    | 202    | 53    | 44    | 54    | 51      | 256   | 208    |
| 26        | 205    | 300E   | 276    | 188    | 263    | 190    | 53    | 43    | 53    | 53      | 256   | 208    |
| 27        | 206    | 300E   | 272    | 223    | 303    | 181    | 55    | 44    | 53    | 53      | 232   | 208    |
| 28        | 208    | 300E   | 276    | 226    | 320    | 119    | 55    | 43    | 53    | 50      | 201   | 201    |
| 29        | 208    | 300E   | 281    | 233    | 337    | 61     | 55    | 43    | 51    | 52      | 198   | 202    |
| 30        | 205    | -----  | 279    | 239    | 350    | 61     | 54    | 44    | 51    | 33      | 201   | 216    |
| 31        | 203    | -----  | 276    | -----  | 368    | -----  | 53    | 45    | ----- | 14      | ----- | 256    |
| TOTAL     | 7,663  | 7,711  | 7,904  | 5,470  | 8,603  | 6,387  | 1,730 | 1,483 | 1,476 | 1,503   | 2,774 | 7,846  |
| MEAN      | 247    | 266    | 255    | 182    | 278    | 213    | 55.8  | 47.8  | 49.2  | 48.5    | 92.5  | 253    |
| MAX       | 312    | 300    | 284    | 281    | 368    | 361    | 59    | 57    | 54    | 53      | 256   | 314    |
| MIN       | 203    | 157    | 180    | 14     | 244    | 61     | 53    | 43    | 20    | 14      | 12    | 201    |
| AC-FT     | 15,200 | 15,290 | 15,680 | 10,850 | 17,060 | 12,670 | 3,430 | 2,940 | 2,930 | 2,980   | 5,500 | 15,560 |
| YEAR 1996 | TOTAL  | 60,550 | MEAN   | 165    | MAX    | 368    | MIN   | 12    | AC-FT | 120,100 |       |        |

# NIOBRARA RIVER BASIN

## AINSWORTH CANAL from Merritt Reservoir, 00001000 - 1996

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

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

PERIOD OF RECORD.--1965 - present

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL    | AUG    | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|--------|--------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 40     | 324    | 589    | 272   |     |       |     |
| 2         |     |       |     |       | 0     | 40     | 448    | 513    | 290   |     |       |     |
| 3         |     |       |     |       | 0     | 45     | 516    | 480    | 345   |     |       |     |
| 4         |     |       |     |       | 0     | 51     | 518    | 501    | 437   |     |       |     |
| 5         |     |       |     |       | 0     | 52     | 525    | 285    | 446   |     |       |     |
| 6         |     |       |     |       | 0     | 53     | 526    | 124    | 410   |     |       |     |
| 7         |     |       |     |       | 0     | 53     | 523    | 121    | 157   |     |       |     |
| 8         |     |       |     |       | 0     | 53     | 498    | 175    | 64    |     |       |     |
| 9         |     |       |     |       | 0     | 53     | 489    | 318    | 62    |     |       |     |
| 10        |     |       |     |       | 0     | 53     | 501    | 425    | 57    |     |       |     |
| 11        |     |       |     |       | 0     | 53     | 524    | 465    | 57    |     |       |     |
| 12        |     |       |     |       | 0     | 53     | 541    | 572    | 57    |     |       |     |
| 13        |     |       |     |       | 0     | 52     | 555    | 593    | 57    |     |       |     |
| 14        |     |       |     |       | 0     | 53     | 562    | 594    | 57    |     |       |     |
| 15        |     |       |     |       | 0     | 53     | 585    | 584    | 57    |     |       |     |
| 16        |     |       |     |       | 0     | 53     | 607    | 512    | 39    |     |       |     |
| 17        |     |       |     |       | 0     | 53     | 599    | 317    | 0     |     |       |     |
| 18        |     |       |     |       | 0     | 53     | 608    | 328    | 0     |     |       |     |
| 19        |     |       |     |       | 16    | 53     | 614    | 379    | 0     |     |       |     |
| 20        |     |       |     |       | 90    | 53     | 605    | 402    | 0     |     |       |     |
| 21        |     |       |     |       | 76    | 51     | 611    | 426    | 0     |     |       |     |
| 22        |     |       |     |       | 59    | 53     | 621    | 465    | 0     |     |       |     |
| 23        |     |       |     |       | 42    | 54     | 385    | 480    | 0     |     |       |     |
| 24        |     |       |     |       | 42    | 56     | 569    | 472    | 0     |     |       |     |
| 25        |     |       |     |       | 42    | 77     | 586    | 473    | 0     |     |       |     |
| 26        |     |       |     |       | 41    | 108    | 560    | 481    | 0     |     |       |     |
| 27        |     |       |     |       | 41    | 163    | 539    | 501    | 0     |     |       |     |
| 28        |     |       |     |       | 41    | 217    | 539    | 488    | 0     |     |       |     |
| 29        |     |       |     |       | 41    | 227    | 559    | 463    | 0     |     |       |     |
| 30        |     | ----- |     |       | 41    | 246    | 601    | 392    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 41    | -----  | 600    | 259    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 613   | 2,274  | 17,038 | 13,177 | 2,864 |     |       |     |
| MEAN      |     |       |     |       | 19.8  | 75.8   | 550    | 425    | 95.5  |     |       |     |
| MAX       |     |       |     |       | 90    | 246    | 621    | 594    | 446   |     |       |     |
| MIN       |     |       |     |       | 0     | 40     | 324    | 121    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 1,220 | 4,510  | 33,790 | 26,140 | 5,680 |     |       |     |
| YEAR 1996 | MAX | 621   | MIN | 0     | AC-FT | 71,340 |        |        |       |     |       |     |

# NIOBRARA RIVER BASIN

**KEYA PAHA RIVER near Naper, 06464900 - 1996**

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

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

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

PERIOD OF RECORD.--1957 - present

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

E indicates estimated daily discharge. Estimated records January 1-March 12, March 25-27, November 17-December 31. Records good except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 4,230 cubic feet per second May 28, gage height 9.38 feet; maximum gage height 11.20 feet February 12, due to backwater from ice jam; minimum daily discharge 44 cubic feet per second August 29.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB     | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP    | OCT     | NOV    | DEC    |
|-----------|-------|---------|--------|--------|--------|--------|-------|-------|--------|---------|--------|--------|
| 1         | 156E  | 116E    | 450E   | 437    | 293    | 968    | 133   | 53    | 48     | 247     | 197    | 180E   |
| 2         | 162E  | 124E    | 420E   | 526    | 293    | 652    | 133   | 56    | 49     | 188     | 194    | 174E   |
| 3         | 156E  | 130E    | 400E   | 648    | 312    | 518    | 123   | 70    | 51     | 150     | 192    | 184E   |
| 4         | 156E  | 136E    | 360E   | 651    | 317    | 467    | 110   | 91    | 54     | 152     | 199    | 175E   |
| 5         | 145E  | 148E    | 400E   | 524    | 312    | 505    | 105   | 150   | 53     | 152     | 212    | 160E   |
| 6         | 134E  | 232E    | 500E   | 439    | 352    | 498    | 132   | 115   | 50     | 139     | 227    | 170E   |
| 7         | 130E  | 438E    | 580E   | 414    | 331    | 449    | 129   | 73    | 71     | 132     | 205    | 160E   |
| 8         | 138E  | 668E    | 650E   | 410    | 320    | 424    | 107   | 59    | 106    | 133     | 195    | 180E   |
| 9         | 148E  | 736E    | 720E   | 427    | 305    | 577    | 95    | 53    | 89     | 125     | 185    | 186E   |
| 10        | 144E  | 820E    | 780E   | 430    | 316    | 542    | 97    | 53    | 78     | 117     | 174    | 184E   |
| 11        | 154E  | 876E    | 930E   | 534    | 344    | 456    | 90    | 55    | 74     | 119     | 174    | 194E   |
| 12        | 158E  | 1,950E  | 950E   | 330    | 307    | 411    | 87    | 54    | 71     | 123     | 181    | 230E   |
| 13        | 166E  | 1,560E  | 933    | 264    | 300    | 351    | 95    | 52    | 69     | 118     | 188    | 220E   |
| 14        | 166E  | 1,170E  | 725    | 315    | 309    | 313    | 95    | 52    | 70     | 116     | 193    | 210E   |
| 15        | 168E  | 1,030E  | 787    | 357    | 311    | 285    | 69    | 53    | 78     | 114     | 204    | 190E   |
| 16        | 170E  | 858E    | 654    | 349    | 312    | 548    | 78    | 56    | 88     | 105     | 191    | 180E   |
| 17        | 160E  | 838E    | 521    | 336    | 294    | 523    | 88    | 54    | 87     | 146     | 120E   | 170E   |
| 18        | 160E  | 528E    | 439    | 330    | 278    | 653    | 79    | 52    | 89     | 183     | 140E   | 160E   |
| 19        | 144E  | 414E    | 383    | 457    | 429    | 502    | 68    | 54    | 469    | 201     | 140E   | 150E   |
| 20        | 116E  | 362E    | 337    | 361    | 333    | 402    | 69    | 50    | 577    | 198     | 136E   | 160E   |
| 21        | 110E  | 490E    | 307    | 344    | 280    | 355    | 67    | 51    | 425    | 191     | 130E   | 170E   |
| 22        | 114E  | 270E    | 303    | 320    | 250    | 305    | 72    | 55    | 291    | 169     | 120E   | 160E   |
| 23        | 110E  | 190E    | 294    | 325    | 373    | 297    | 72    | 55    | 235    | 162     | 110E   | 150E   |
| 24        | 116E  | 140E    | 279    | 334    | 511    | 330    | 61    | 58    | 260    | 154     | 120E   | 140E   |
| 25        | 112E  | 106E    | 80E    | 322    | 539    | 385    | 56    | 57    | 378    | 158     | 130E   | 130E   |
| 26        | 126E  | 200E    | 130E   | 271    | 596    | 339    | 55    | 54    | 594    | 154     | 140E   | 120E   |
| 27        | 112E  | 220E    | 200E   | 240    | 1,680  | 280    | 78    | 48    | 497    | 152     | 160E   | 160E   |
| 28        | 104E  | 320E    | 242    | 257    | 3,910  | 237    | 69    | 47    | 317    | 161     | 180E   | 150E   |
| 29        | 102E  | 420E    | 254    | 311    | 2,510  | 211    | 60    | 44    | 244    | 219     | 200E   | 160E   |
| 30        | 102E  | -----   | 326    | 321    | 1,670  | 186    | 54    | 47    | 210    | 282     | 190E   | 170E   |
| 31        | 112E  | -----   | 382    | -----  | 1,420  | -----  | 51    | 48    | -----  | 246     | -----  | 180E   |
| TOTAL     | 4,251 | 15,490  | 14,416 | 11,583 | 20,107 | 12,969 | 2,677 | 1,869 | 5,772  | 5,006   | 5,127  | 5,307  |
| MEAN      | 137   | 534     | 465    | 386    | 649    | 432    | 86.4  | 60.3  | 192    | 161     | 171    | 171    |
| MAX       | 170   | 1,950   | 950    | 651    | 3,910  | 968    | 133   | 150   | 594    | 282     | 227    | 230    |
| MIN       | 102   | 106     | 80     | 240    | 250    | 186    | 51    | 44    | 48     | 105     | 110    | 120    |
| AC-FT     | 8,430 | 30,720  | 28,590 | 22,970 | 39,880 | 25,720 | 5,310 | 3,710 | 11,450 | 9,930   | 10,170 | 10,530 |
| YEAR 1996 | TOTAL | 104,574 | MEAN   | 286    | MAX    | 3,910  | MIN   | 44    | AC-FT  | 207,400 |        |        |

## NORTH PLATTE RIVER BASIN

FORT LARAMIE CANAL from North Platte River, 00052000 - 1996

LOCATION.--SW1/4NW1/4 Sec. 10-26-65 W.

GAGE.--Continuous stage recorder and parshall flume

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

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY    | JUN     | JUL    | AUG    | SEP    | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|--------|---------|--------|--------|--------|-----|-------|-----|
| 1         |     |       |     |       | 702    | 702     | 1,460  | 1,510  | 1,310  |     |       |     |
| 2         |     |       |     |       | 700    | 702     | 1,500  | 1,510  | 1,280  |     |       |     |
| 3         |     |       |     |       | 721    | 705     | 1,500  | 1,510  | 1,250  |     |       |     |
| 4         |     |       |     |       | 767    | 698     | 1,500  | 1,510  | 1,260  |     |       |     |
| 5         |     |       |     |       | 804    | 700     | 1,500  | 1,510  | 1,260  |     |       |     |
| 6         |     |       |     |       | 804    | 700     | 1,500  | 1,510  | 1,220  |     |       |     |
| 7         |     |       |     |       | 801    | 700     | 1,510  | 1,510  | 1,170  |     |       |     |
| 8         |     |       |     |       | 871    | 698     | 1,510  | 1,510  | 1,160  |     |       |     |
| 9         |     |       |     |       | 931    | 700     | 1,520  | 1,510  | 1,150  |     |       |     |
| 10        |     |       |     |       | 931    | 700     | 1,510  | 1,510  | 1,110  |     |       |     |
| 11        |     |       |     |       | 933    | 745     | 1,510  | 1,510  | 1,100  |     |       |     |
| 12        |     |       |     |       | 933    | 777     | 1,210  | 1,510  | 1,100  |     |       |     |
| 13        |     |       |     |       | 944    | 779     | 1,510  | 1,520  | 1,100  |     |       |     |
| 14        |     |       |     |       | 983    | 779     | 1,500  | 1,520  | 1,100  |     |       |     |
| 15        |     |       |     |       | 1,030  | 779     | 1,500  | 1,520  | 1,110  |     |       |     |
| 16        |     |       |     |       | 1,060  | 781     | 1,500  | 1,510  | 1,050  |     |       |     |
| 17        |     |       |     |       | 1,120  | 781     | 1,500  | 1,510  | 1,010  |     |       |     |
| 18        |     |       |     |       | 1,150  | 777     | 1,510  | 1,510  | 811    |     |       |     |
| 19        |     |       |     |       | 1,160  | 774     | 1,520  | 1,510  | 512    |     |       |     |
| 20        |     |       |     |       | 1,200  | 851     | 1,510  | 1,510  | 121    |     |       |     |
| 21        |     |       |     |       | 1,200  | 928     | 1,510  | 1,510  | 0      |     |       |     |
| 22        |     |       |     |       | 1,130  | 928     | 1,520  | 1,510  | 0      |     |       |     |
| 23        |     |       |     |       | 1,090  | 925     | 1,510  | 1,510  | 0      |     |       |     |
| 24        |     |       |     |       | 981    | 941     | 1,520  | 1,510  | 0      |     |       |     |
| 25        |     |       |     |       | 952    | 1,030   | 1,520  | 1,510  | 0      |     |       |     |
| 26        |     |       |     |       | 915    | 1,110   | 1,520  | 1,460  | 0      |     |       |     |
| 27        |     |       |     |       | 816    | 1,290   | 1,520  | 1,450  | 0      |     |       |     |
| 28        |     |       |     |       | 748    | 1,410   | 1,520  | 1,440  | 0      |     |       |     |
| 29        |     |       |     |       | 743    | 1,420   | 1,510  | 1,410  | 0      |     |       |     |
| 30        |     | ----- |     |       | 700    | 1,460   | 1,510  | 1,340  | 0      |     |       |     |
| 31        |     | ----- |     | ----- | 702    | -----   | 1,510  | 1,290  | -----  |     | ----- |     |
| TOTAL     |     |       |     |       | 28,522 | 26,270  | 46,450 | 46,190 | 21,184 |     |       |     |
| MEAN      |     |       |     |       | 920    | 876     | 1,498  | 1,490  | 706    |     |       |     |
| MAX       |     |       |     |       | 1,200  | 1,460   | 1,520  | 1,520  | 1,310  |     |       |     |
| MIN       |     |       |     |       | 700    | 698     | 1,210  | 1,290  | 0      |     |       |     |
| AC-FT     |     |       |     |       | 56,570 | 52,110  | 92,130 | 91,620 | 42,020 |     |       |     |
| YEAR 1996 | MAX | 1,520 | MIN | 0     | AC-FT  | 334,400 |        |        |        |     |       |     |

# NORTH PLATTE RIVER BASIN

FORT LARAMIE CANAL from North Platte River @ Mile Post 85.3, 00052200 - 1996

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

GAGE.--Continuous stage recorder and Parshall flume

PERIOD OF RECORD.--1981 - present

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

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY    | JUN     | JUL    | AUG    | SEP    | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|--------|---------|--------|--------|--------|-----|-------|-----|
| 1         |     |       |     |       | 328    | 224     | 608    | 601    | 504    |     |       |     |
| 2         |     |       |     |       | 323    | 218     | 599    | 594    | 498    |     |       |     |
| 3         |     |       |     |       | 319    | 207     | 592    | 590    | 496    |     |       |     |
| 4         |     |       |     |       | 305    | 215     | 594    | 594    | 473    |     |       |     |
| 5         |     |       |     |       | 316    | 209     | 592    | 594    | 479    |     |       |     |
| 6         |     |       |     |       | 335    | 212     | 592    | 588    | 485    |     |       |     |
| 7         |     |       |     |       | 326    | 210     | 588    | 588    | 477    |     |       |     |
| 8         |     |       |     |       | 311    | 213     | 577    | 592    | 455    |     |       |     |
| 9         |     |       |     |       | 319    | 210     | 568    | 588    | 451    |     |       |     |
| 10        |     |       |     |       | 350    | 209     | 581    | 588    | 443    |     |       |     |
| 11        |     |       |     |       | 355    | 218     | 588    | 585    | 429    |     |       |     |
| 12        |     |       |     |       | 352    | 221     | 590    | 585    | 419    |     |       |     |
| 13        |     |       |     |       | 353    | 268     | 596    | 583    | 423    |     |       |     |
| 14        |     |       |     |       | 355    | 282     | 601    | 581    | 421    |     |       |     |
| 15        |     |       |     |       | 311    | 280     | 594    | 585    | 433    |     |       |     |
| 16        |     |       |     |       | 352    | 285     | 592    | 588    | 425    |     |       |     |
| 17        |     |       |     |       | 359    | 282     | 585    | 585    | 423    |     |       |     |
| 18        |     |       |     |       | 377    | 268     | 583    | 585    | 429    |     |       |     |
| 19        |     |       |     |       | 402    | 277     | 585    | 588    | 398    |     |       |     |
| 20        |     |       |     |       | 414    | 287     | 590    | 590    | 272    |     |       |     |
| 21        |     |       |     |       | 417    | 325     | 588    | 585    | 181    |     |       |     |
| 22        |     |       |     |       | 408    | 370     | 581    | 588    | 89     |     |       |     |
| 23        |     |       |     |       | 404    | 383     | 588    | 596    | C      |     |       |     |
| 24        |     |       |     |       | 391    | 379     | 588    | 596    | C      |     |       |     |
| 25        |     |       |     |       | 376    | 379     | 581    | 594    | C      |     |       |     |
| 26        |     |       |     |       | 389    | 406     | 583    | 592    | 0      |     |       |     |
| 27        |     |       |     |       | 372    | 429     | 590    | 585    | 0      |     |       |     |
| 28        |     |       |     |       | 353    | 479     | 594    | 566    | 0      |     |       |     |
| 29        |     |       |     |       | 290    | 561     | 599    | 555    | 0      |     |       |     |
| 30        |     | ----- |     |       | 254    | 588     | 596    | 540    | 0      |     |       |     |
| 31        |     | ----- |     | ----- | 233    | -----   | 603    | 523    | -----  |     | ----- |     |
| TOTAL     |     |       |     |       | 10,749 | 9,094   | 18,286 | 18,092 | 9,103  |     |       |     |
| MEAN      |     |       |     |       | 347    | 303     | 590    | 584    | 303    |     |       |     |
| MAX       |     |       |     |       | 417    | 588     | 608    | 601    | 504    |     |       |     |
| MIN       |     |       |     |       | 233    | 207     | 568    | 523    | 0      |     |       |     |
| AC-FT     |     |       |     |       | 21,320 | 18,040  | 36,270 | 35,890 | 18,060 |     |       |     |
| YEAR 1996 | MAX | 608   | MIN | 0     | AC-FT  | 129,600 |        |        |        |     |       |     |



## NORTH PLATTE RIVER BASIN

## INTERSTATE CANAL from North Platte River, 00071000 - 1996

LOCATION.--NE1/4NW1/4 Sec. 11-26-65 W., Wyo.

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1915 - present

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY      | JUN      | JUL     | AUG     | SEP    | OCT   | NOV   | DEC |
|-----------|-----|-------|-----|-------|----------|----------|---------|---------|--------|-------|-------|-----|
| 1         |     |       |     |       | 960      | 1.0      | 2,010   | 2,050   | 1,970  | 913   |       |     |
| 2         |     |       |     |       | 1,020    | 1.0      | 2,010   | 2,040   | 1,970  | 901   |       |     |
| 3         |     |       |     |       | 1,070    | 2.0      | 2,060   | 2,040   | 1,970  | 641   |       |     |
| 4         |     |       |     |       | 1,140    | 2.0      | 2,060   | 2,040   | 1,930  | 139   |       |     |
| 5         |     |       |     |       | 1,160    | 2.0      | 2,070   | 2,030   | 1,920  | 0     |       |     |
| 6         |     |       |     |       | 1,200    | 2.0      | 2,090   | 2,030   | 1,900  | 0     |       |     |
| 7         |     |       |     |       | 1,290    | 2.0      | 2,090   | 2,040   | 1,790  | 0     |       |     |
| 8         |     |       |     |       | 1,340    | 2.0      | 2,090   | 2,040   | 1,790  | 0     |       |     |
| 9         |     |       |     |       | 1,380    | 2.0      | 2,090   | 2,040   | 1,780  | 0     |       |     |
| 10        |     |       |     |       | 1,390    | 2.0      | 2,090   | 2,030   | 1,710  | 0     |       |     |
| 11        |     |       |     |       | 1,440    | 2.0      | 2,090   | 2,020   | 1,670  | 0     |       |     |
| 12        |     |       |     |       | 1,440    | 2.0      | 2,060   | 2,020   | 1,650  | 0     |       |     |
| 13        |     |       |     |       | 1,450    | 2.0      | 1,990   | 2,020   | 1,600  | 0     |       |     |
| 14        |     |       |     |       | 1,440    | 2.0      | 1,990   | 2,030   | 1,590  | 0     |       |     |
| 15        |     |       |     |       | 1,430    | 2.0      | 1,980   | 2,030   | 1,530  | 0     |       |     |
| 16        |     |       |     |       | 1,430    | 2.0      | 1,990   | 2,040   | 1,480  | 0     |       |     |
| 17        |     |       |     |       | 1,430    | 2.0      | 1,990   | 2,040   | 1,420  | 0     |       |     |
| 18        |     |       |     |       | 1,430    | 533      | 1,990   | 2,040   | 1,420  | 0     |       |     |
| 19        |     |       |     |       | 1,430    | 930      | 1,990   | 2,040   | 1,360  | 0     |       |     |
| 20        |     |       |     |       | 1,420    | 972      | 1,980   | 2,040   | 1,220  | 0     |       |     |
| 21        |     |       |     |       | 1,420    | 1,100    | 1,980   | 2,060   | 1,230  | 0     |       |     |
| 22        |     |       |     |       | 1,420    | 1,160    | 1,980   | 2,060   | 1,220  | 0     |       |     |
| 23        |     |       |     |       | 1,400    | 1,360    | 1,970   | 2,060   | 1,230  | 0     |       |     |
| 24        |     |       |     |       | 1,280    | 1,460    | 1,980   | 2,070   | 1,180  | 0     |       |     |
| 25        |     |       |     |       | 1,200    | 1,620    | 2,030   | 2,080   | 1,190  | 0     |       |     |
| 26        |     |       |     |       | 1,170    | 1,780    | 2,030   | 2,080   | 1,190  | 0     |       |     |
| 27        |     |       |     |       | 1,100    | 1,920    | 2,030   | 2,070   | 1,180  | 0     |       |     |
| 28        |     |       |     |       | 631      | 1,960    | 2,040   | 2,020   | 1,050  | 0     |       |     |
| 29        |     |       |     |       | 169      | 1,960    | 2,040   | 2,020   | 935    | 0     |       |     |
| 30        |     | ----- |     |       | 1.0      | 1,970    | 2,040   | 2,020   | 930    | 0     |       |     |
| 31        |     | ----- |     | ----- | 1.0      | -----    | 2,040   | 2,010   | -----  | 0     | ----- |     |
| TOTAL     |     |       |     |       | 36,102.0 | 18,757.0 | 62,870  | 63,250  | 45,005 | 2,594 |       |     |
| MEAN      |     |       |     |       | 1,165    | 625      | 2,028   | 2,040   | 1,500  | 83.7  |       |     |
| MAX       |     |       |     |       | 1,450    | 1,970    | 2,090   | 2,080   | 1,970  | 913   |       |     |
| MIN       |     |       |     |       | 1.0      | 1.0      | 1,970   | 2,010   | 930    | 0     |       |     |
| AC-FT     |     |       |     |       | 71,610   | 37,200   | 124,700 | 125,500 | 89,270 | 5,150 |       |     |
| YEAR 1996 | MAX | 2,090 | MIN | 0     | AC-FT    | 453,400  |         |         |        |       |       |     |

# NORTH PLATTE RIVER BASIN

**LAKE ALICE RESERVOIR from North Platte, 00400300 - 1996**

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<br>(Feet) | CONTENT<br>(Acre-feet) |
|--------------------------|---------------------|------------------------|
| Top of conservation pool | 4192.0              | 11,100                 |
| Top of dead storage pool | 4159.0              | 0                      |

DAILY CONTENTS IN ACRE-FEET FOR 1996

| Day       | JAN | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC |
|-----------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| 1         | 294 | 167   | 129   | 48    | 6,210 | 4,000 | 6,060 | 2,350 | 2,480 | 3,940 | 1,140 | 782 |
| 2         | 284 | 164   | 128   | 44    | 6,030 | 3,960 | 5,890 | 2,410 | 2,660 | 4,230 | 1,110 | 792 |
| 3         | 279 | 165   | 127   | 41    | 5,910 | 3,940 | 5,600 | 2,490 | 2,810 | 4,480 | 1,110 | 766 |
| 4         | 269 | 162   | 129   | 38    | 5,730 | 3,900 | 5,400 | 2,520 | 2,890 | 4,660 | 1,090 | 766 |
| 5         | 277 | 164   | 127   | 111   | 5,570 | 3,860 | 5,400 | 2,550 | 2,940 | 4,640 | 1,110 | 760 |
| 6         | 271 | 162   | 126   | 99    | 5,470 | 3,820 | 5,400 | 2,570 | 2,970 | 4,170 | 1,090 | 741 |
| 7         | 261 | 161   | 124   | 88    | 5,170 | 3,780 | 4,470 | 2,540 | 3,020 | 3,480 | 1,080 | 731 |
| 8         | 256 | 159   | 123   | 78    | 4,910 | 3,750 | 4,150 | 2,520 | 3,080 | 2,760 | 1,070 | 712 |
| 9         | 234 | 159   | 122   | 69    | 4,720 | 3,710 | 3,690 | 2,530 | 3,030 | 2,110 | 1,040 | 709 |
| 10        | 250 | 158   | 121   | 60    | 4,500 | 3,680 | 3,420 | 2,530 | 2,950 | 1,510 | 1,040 | 697 |
| 11        | 240 | 156   | 123   | 52    | 4,300 | 3,680 | 3,140 | 2,510 | 2,890 | 1,160 | 1,030 | 691 |
| 12        | 238 | 155   | 119   | 43    | 4,150 | 3,590 | 2,890 | 2,490 | 2,800 | 1,170 | 1,020 | 679 |
| 13        | 217 | 154   | 118   | 36    | 3,980 | 3,550 | 2,690 | 2,430 | 2,790 | 1,180 | 925   | 670 |
| 14        | 227 | 152   | 117   | 31    | 3,870 | 3,510 | 2,620 | 2,350 | 2,830 | 1,180 | 932   | 679 |
| 15        | 226 | 151   | 116   | 25    | 3,750 | 3,500 | 2,420 | 2,300 | 2,880 | 1,180 | 932   | 661 |
| 16        | 221 | 149   | 114   | 21    | 3,600 | 3,460 | 2,390 | 2,230 | 2,900 | 1,200 | 949   | 694 |
| 17        | 221 | 148   | 113   | 17    | 3,440 | 3,410 | 2,390 | 2,160 | 2,950 | 1,200 | 914   | 676 |
| 18        | 208 | 147   | 112   | 17    | 3,270 | 3,380 | 2,290 | 2,120 | 2,910 | 1,180 | 900   | 661 |
| 19        | 106 | 144   | 111   | 620   | 3,090 | 3,330 | 2,230 | 2,030 | 2,940 | 1,200 | 886   | 637 |
| 20        | 106 | 144   | 105   | 1,060 | 2,900 | 3,320 | 2,210 | 1,980 | 3,000 | 1,200 | 872   | 608 |
| 21        | 106 | 143   | 99    | 1,500 | 2,780 | 3,700 | 2,150 | 1,920 | 3,020 | 1,180 | 869   | 620 |
| 22        | 107 | 140   | 94    | 2,930 | 2,760 | 3,910 | 2,170 | 1,880 | 3,010 | 1,170 | 879   | 628 |
| 23        | 164 | 139   | 88    | 3,380 | 2,850 | 4,110 | 2,150 | 1,860 | 2,980 | 1,160 | 876   | 603 |
| 24        | 168 | 137   | 83    | 3,810 | 2,990 | 4,450 | 2,150 | 1,860 | 2,980 | 1,160 | 852   | 580 |
| 25        | 167 | 136   | 78    | 4,210 | 3,140 | 4,820 | 2,100 | 1,880 | 3,030 | 1,150 | 838   | 591 |
| 26        | 165 | 135   | 73    | 4,600 | 3,310 | 5,190 | 2,090 | 1,910 | 3,120 | 1,180 | 838   | 561 |
| 27        | 164 | 133   | 69    | 5,030 | 3,450 | 5,580 | 2,100 | 1,940 | 3,250 | 1,150 | 818   | 542 |
| 28        | 165 | 132   | 64    | 5,450 | 3,510 | 5,860 | 2,120 | 1,960 | 3,410 | 1,140 | 805   | 528 |
| 29        | 168 | 131   | 60    | 5,890 | 3,400 | 5,950 | 2,200 | 2,020 | 3,590 | 1,150 | 818   | 523 |
| 30        | 167 | ----- | 56    | 6,210 | 3,700 | 6,470 | 2,250 | 2,120 | 3,710 | 1,160 | 799   | 523 |
| 31        | 167 | ----- | 52    | ----- | 3,990 | ----- | 2,300 | 2,280 | ----- | 1,150 | ----- | 520 |
| MAX       | 294 | 167   | 129   | 6,210 | 6,210 | 6,470 | 6,060 | 2,570 | 3,710 | 4,660 | 1,140 | 792 |
| MIN       | 106 | 131   | 52    | 17    | 2,760 | 3,320 | 2,090 | 1,860 | 2,480 | 1,140 | 799   | 520 |
| YEAR 1996 |     | MAX   | 6,470 | MIN   | 17    |       |       |       |       |       |       |     |

## NORTH PLATTE RIVER BASIN

## LITTLE LAKE ALICE RESERVOIR from North Platte River, 00405200 - 1996

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

GAGE.--Slope gage

PERIOD OF RECORD.--1992 - present

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

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

## DAILY CONTENTS IN ACRE-FEET FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY | JUN   | JUL | AUG | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|
| 1         | 140 | 97    | 64  | 36    | 373 | 325   | 342 | 365 | 343   | 387 | 77    | 69  |
| 2         | 138 | 95    | 63  | 38    | 368 | 319   | 349 | 365 | 330   | 379 | 76    | 69  |
| 3         | 138 | 94    | 62  | 35    | 365 | 319   | 355 | 365 | 307   | 378 | 76    | 68  |
| 4         | 135 | 91    | 63  | 33    | 360 | 321   | 349 | 361 | 305   | 382 | 75    | 69  |
| 5         | 126 | 92    | 63  | 33    | 357 | 323   | 344 | 357 | 306   | 385 | 75    | 68  |
| 6         | 122 | 93    | 62  | 31    | 354 | 318   | 345 | 359 | 309   | 376 | 75    | 68  |
| 7         | 115 | 96    | 61  | 30    | 357 | 318   | 355 | 352 | 314   | 359 | 73    | 68  |
| 8         | 114 | 98    | 59  | 29    | 352 | 318   | 357 | 347 | 313   | 334 | 73    | 67  |
| 9         | 113 | 98    | 58  | 28    | 350 | 318   | 362 | 350 | 345   | 308 | 72    | 67  |
| 10        | 111 | 98    | 58  | 24    | 342 | 318   | 357 | 338 | 361   | 278 | 73    | 67  |
| 11        | 110 | 97    | 56  | 30    | 343 | 318   | 351 | 334 | 359   | 207 | 73    | 67  |
| 12        | 110 | 96    | 55  | 26    | 346 | 316   | 350 | 327 | 367   | 128 | 72    | 66  |
| 13        | 110 | 93    | 56  | 25    | 346 | 313   | 349 | 327 | 364   | 103 | 71    | 66  |
| 14        | 109 | 86    | 53  | 28    | 345 | 312   | 345 | 327 | 365   | 94  | 72    | 65  |
| 15        | 108 | 82    | 55  | 25    | 349 | 314   | 344 | 327 | 367   | 87  | 74    | 64  |
| 16        | 107 | 79    | 51  | 22    | 350 | 314   | 338 | 324 | 368   | 86  | 74    | 64  |
| 17        | 109 | 76    | 50  | 21    | 344 | 312   | 333 | 323 | 379   | 84  | 73    | 64  |
| 18        | 106 | 76    | 51  | 124   | 338 | 310   | 336 | 333 | 374   | 84  | 72    | 64  |
| 19        | 105 | 74    | 48  | 191   | 336 | 309   | 337 | 321 | 374   | 94  | 72    | 63  |
| 20        | 105 | 73    | 47  | 242   | 329 | 308   | 333 | 327 | 371   | 82  | 72    | 64  |
| 21        | 105 | 72    | 46  | 277   | 321 | 318   | 332 | 336 | 371   | 91  | 71    | 64  |
| 22        | 106 | 74    | 44  | 299   | 323 | 341   | 332 | 330 | 371   | 81  | 71    | 64  |
| 23        | 105 | 70    | 47  | 318   | 329 | 345   | 333 | 328 | 369   | 80  | 71    | 64  |
| 24        | 103 | 70    | 45  | 336   | 338 | 347   | 334 | 337 | 368   | 80  | 70    | 63  |
| 25        | 104 | 70    | 44  | 344   | 349 | 351   | 339 | 336 | 369   | 79  | 70    | 64  |
| 26        | 103 | 69    | 43  | 354   | 361 | 355   | 337 | 336 | 374   | 79  | 70    | 63  |
| 27        | 99  | 68    | 43  | 364   | 364 | 359   | 338 | 337 | 364   | 79  | 70    | 62  |
| 28        | 99  | 67    | 41  | 367   | 366 | 362   | 342 | 341 | 369   | 77  | 70    | 64  |
| 29        | 99  | 66    | 41  | 368   | 366 | 359   | 344 | 352 | 376   | 77  | 70    | 63  |
| 30        | 99  | ----- | 39  | 372   | 357 | 357   | 351 | 353 | 380   | 78  | 69    | 64  |
| 31        | 98  | ----- | 38  | ----- | 333 | ----- | 361 | 354 | ----- | 77  | ----- | 63  |
| MAX       | 140 | 98    | 64  | 372   | 373 | 362   | 362 | 365 | 380   | 387 | 77    | 69  |
| MIN       | 98  | 66    | 38  | 21    | 321 | 308   | 332 | 321 | 305   | 77  | 69    | 62  |
| YEAR 1996 |     | MAX   | 387 | MIN   | 21  |       |     |     |       |     |       |     |

# NORTH PLATTE RIVER BASIN

**LAKE MINATARE RESERVOIR from North Platte, 00406300 - 1996**

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 FOR 1996

| Day       | JAN    | FEB    | MAR        | APR    | MAY        | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    |
|-----------|--------|--------|------------|--------|------------|--------|--------|--------|--------|--------|--------|--------|
| 1         | 30,000 | 29,800 | 29,600     | 29,000 | 37,200     | 54,500 | 50,800 | 30,400 | 13,600 | 32,200 | 39,300 | 38,800 |
| 2         | 30,100 | 29,700 | 29,600     | 29,000 | 38,100     | 54,400 | 50,200 | 30,100 | 13,700 | 33,100 | 39,200 | 38,800 |
| 3         | 30,000 | 29,700 | 29,600     | 29,000 | 39,000     | 54,400 | 49,700 | 29,600 | 13,800 | 34,100 | 39,200 | 38,800 |
| 4         | 30,000 | 29,600 | 29,600     | 29,000 | 39,700     | 54,300 | 49,100 | 29,100 | 14,000 | 35,100 | 39,200 | 38,800 |
| 5         | 30,000 | 29,700 | 29,600     | 29,000 | 40,400     | 54,400 | 48,200 | 28,000 | 14,300 | 35,900 | 39,200 | 38,800 |
| 6         | 30,000 | 29,600 | 29,500     | 29,000 | 41,100     | 54,300 | 47,500 | 27,400 | 14,600 | 36,600 | 39,200 | 38,800 |
| 7         | 30,100 | 29,600 | 29,500     | 28,900 | 41,700     | 54,100 | 46,800 | 26,700 | 14,900 | 37,400 | 39,100 | 38,700 |
| 8         | 30,000 | 29,600 | 29,500     | 28,900 | 42,400     | 54,100 | 46,200 | 26,100 | 15,300 | 38,000 | 39,100 | 38,700 |
| 9         | 30,000 | 29,600 | 29,400     | 28,900 | 43,000     | 54,000 | 45,600 | 25,400 | 15,700 | 38,600 | 39,100 | 38,700 |
| 10        | 30,000 | 29,500 | 29,400     | 28,900 | 43,500     | 54,000 | 44,800 | 24,800 | 16,300 | 39,200 | 39,100 | 38,700 |
| 11        | 29,900 | 29,500 | 29,400     | 29,000 | 44,000     | 54,000 | 44,100 | 24,100 | 16,900 | 39,600 | 39,000 | 38,700 |
| 12        | 29,900 | 29,900 | 29,400     | 28,900 | 44,600     | 53,800 | 43,400 | 23,500 | 17,500 | 39,600 | 39,000 | 38,600 |
| 13        | 29,900 | 29,800 | 29,500     | 29,000 | 45,100     | 53,800 | 42,800 | 22,800 | 18,100 | 39,600 | 39,100 | 38,700 |
| 14        | 30,000 | 29,800 | 29,400     | 28,900 | 45,700     | 53,700 | 41,900 | 22,200 | 18,700 | 39,600 | 39,000 | 38,700 |
| 15        | 29,900 | 29,800 | 29,500     | 28,800 | 46,300     | 53,800 | 41,300 | 21,600 | 19,300 | 39,600 | 39,000 | 38,600 |
| 16        | 29,900 | 29,800 | 29,400     | 28,800 | 46,800     | 53,700 | 40,600 | 20,900 | 19,900 | 39,700 | 39,100 | 38,600 |
| 17        | 30,000 | 29,800 | 29,400     | 28,800 | 47,200     | 53,600 | 40,000 | 20,300 | 20,400 | 39,500 | 39,000 | 38,600 |
| 18        | 29,900 | 29,800 | 29,400     | 28,800 | 47,700     | 53,500 | 39,300 | 19,600 | 21,300 | 39,500 | 39,000 | 38,500 |
| 19        | 29,900 | 29,800 | 29,300     | 29,100 | 48,200     | 53,400 | 38,600 | 19,000 | 21,900 | 39,500 | 39,100 | 38,500 |
| 20        | 29,800 | 29,800 | 29,300     | 29,500 | 48,500     | 53,300 | 37,800 | 18,500 | 22,700 | 39,400 | 39,100 | 38,500 |
| 21        | 29,800 | 29,800 | 29,200     | 30,100 | 48,900     | 53,200 | 37,100 | 17,900 | 23,400 | 39,400 | 39,000 | 38,500 |
| 22        | 29,900 | 29,800 | 29,200     | 30,700 | 49,300     | 53,500 | 36,400 | 17,300 | 24,300 | 39,300 | 39,000 | 38,500 |
| 23        | 29,900 | 29,700 | 29,300     | 31,400 | 49,900     | 53,400 | 35,700 | 16,700 | 25,000 | 39,300 | 39,000 | 38,500 |
| 24        | 29,800 | 29,700 | 29,300     | 32,100 | 50,400     | 53,400 | 35,000 | 16,200 | 25,900 | 39,300 | 39,000 | 38,500 |
| 25        | 29,900 | 29,800 | 29,200     | 32,900 | 51,000     | 53,300 | 34,600 | 15,700 | 26,600 | 39,300 | 38,900 | 38,400 |
| 26        | 29,800 | 29,700 | 29,200     | 33,500 | 51,900     | 53,100 | 33,800 | 15,200 | 27,500 | 39,300 | 38,900 | 38,400 |
| 27        | 29,800 | 29,700 | 29,200     | 34,400 | 52,600     | 52,800 | 33,200 | 14,700 | 28,500 | 39,300 | 38,900 | 38,400 |
| 28        | 29,800 | 29,600 | 29,200     | 35,000 | 53,400     | 52,400 | 32,700 | 14,400 | 29,300 | 39,400 | 38,900 | 38,400 |
| 29        | 29,800 | 29,600 | 29,200     | 35,700 | 54,100     | 51,800 | 32,100 | 14,000 | 30,300 | 39,400 | 38,900 | 38,400 |
| 30        | 29,800 | -----  | 29,100     | 36,400 | 54,700     | 51,400 | 31,600 | 13,700 | 31,200 | 39,300 | 38,900 | 38,400 |
| 31        | 29,800 | -----  | 29,100     | -----  | 54,600     | -----  | 31,100 | 13,600 | -----  | 39,300 | -----  | 38,400 |
| MAX       | 30,100 | 29,900 | 29,600     | 36,400 | 54,700     | 54,500 | 50,800 | 30,400 | 31,200 | 39,700 | 39,300 | 38,800 |
| MIN       | 29,800 | 29,500 | 29,100     | 28,800 | 37,200     | 51,400 | 31,100 | 13,600 | 13,600 | 32,200 | 38,900 | 38,400 |
| YEAR 1996 |        |        | MAX 54,700 |        | MIN 13,600 |        |        |        |        |        |        |        |

## NORTH PLATTE RIVER BASIN

## WINTERS CREEK RESERVOIR, 00412000 - 1996

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

GAGE.--Reference point

PERIOD OF RECORD.--1992 - present

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

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

## DAILY CONTENTS IN ACRE-FEET FOR 1996

| Day | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG | SEP   | OCT   | NOV   | DEC   |
|-----|-----|-------|-----|-------|-------|-------|-------|-----|-------|-------|-------|-------|
| 1   | 776 | 688   | 603 | 501   | 787   | 1,330 | 1,200 | 910 | 837   | 1,160 | 1,220 | 1,200 |
| 2   | 774 | 688   | 602 | 497   | 820   | 1,320 | 1,190 | 910 | 841   | 1,170 | 1,220 | 1,200 |
| 3   | 764 | 688   | 598 | 497   | 776   | 1,320 | 1,170 | 904 | 850   | 1,170 | 1,220 | 1,200 |
| 4   | 766 | 678   | 605 | 496   | 772   | 1,320 | 1,160 | 897 | 854   | 1,180 | 1,220 | 1,200 |
| 5   | 768 | 672   | 603 | 489   | 258   | 1,320 | 1,150 | 888 | 871   | 1,190 | 1,220 | 1,190 |
| 6   | 768 | 670   | 598 | 480   | 254   | 1,320 | 1,150 | 878 | 884   | 1,190 | 1,220 | 1,190 |
| 7   | 760 | 670   | 596 | 479   | 254   | 1,320 | 1,130 | 873 | 893   | 1,200 | 1,210 | 1,190 |
| 8   | 756 | 668   | 587 | 474   | 256   | 1,310 | 1,110 | 867 | 904   | 1,200 | 1,220 | 1,190 |
| 9   | 754 | 666   | 579 | 467   | 1,120 | 1,310 | 1,100 | 871 | 912   | 1,200 | 1,210 | 1,190 |
| 10  | 752 | 668   | 579 | 465   | 1,190 | 1,300 | 1,080 | 858 | 923   | 1,210 | 1,210 | 1,180 |
| 11  | 750 | 664   | 581 | 465   | 1,240 | 1,290 | 1,070 | 856 | 930   | 1,210 | 1,210 | 1,180 |
| 12  | 742 | 666   | 574 | 460   | 1,260 | 1,290 | 1,070 | 850 | 939   | 1,220 | 1,210 | 1,180 |
| 13  | 742 | 661   | 561 | 464   | 1,250 | 1,280 | 1,060 | 841 | 950   | 1,220 | 1,210 | 1,180 |
| 14  | 740 | 661   | 557 | 454   | 1,250 | 1,280 | 1,050 | 837 | 964   | 1,220 | 1,210 | 1,170 |
| 15  | 736 | 661   | 546 | 451   | 1,240 | 1,280 | 1,040 | 833 | 979   | 1,220 | 1,210 | 1,170 |
| 16  | 734 | 653   | 545 | 449   | 1,250 | 1,270 | 1,040 | 833 | 993   | 1,230 | 1,210 | 1,170 |
| 17  | 748 | 655   | 545 | 441   | 1,240 | 1,270 | 1,030 | 824 | 1,030 | 1,230 | 1,210 | 1,170 |
| 18  | 740 | 653   | 541 | 439   | 1,240 | 1,260 | 1,010 | 818 | 1,040 | 1,220 | 1,220 | 1,170 |
| 19  | 730 | 649   | 541 | 436   | 1,240 | 1,250 | 1,010 | 816 | 1,060 | 1,230 | 1,210 | 1,160 |
| 20  | 726 | 651   | 545 | 436   | 1,240 | 1,240 | 991   | 816 | 1,070 | 1,230 | 1,210 | 1,150 |
| 21  | 722 | 647   | 541 | 436   | 1,240 | 1,240 | 979   | 816 | 1,080 | 1,220 | 1,220 | 1,150 |
| 22  | 722 | 636   | 543 | 444   | 1,240 | 1,250 | 973   | 812 | 1,090 | 1,220 | 1,210 | 1,150 |
| 23  | 714 | 634   | 534 | 442   | 1,250 | 1,250 | 957   | 810 | 1,100 | 1,220 | 1,210 | 1,150 |
| 24  | 712 | 636   | 536 | 459   | 1,260 | 1,230 | 948   | 810 | 1,110 | 1,220 | 1,210 | 1,140 |
| 25  | 712 | 637   | 532 | 490   | 1,260 | 1,230 | 948   | 812 | 1,120 | 1,220 | 1,210 | 1,140 |
| 26  | 708 | 637   | 523 | 537   | 1,300 | 1,220 | 937   | 808 | 1,130 | 1,220 | 1,210 | 1,140 |
| 27  | 702 | 630   | 522 | 594   | 1,310 | 1,210 | 935   | 808 | 1,140 | 1,220 | 1,200 | 1,140 |
| 28  | 704 | 615   | 522 | 645   | 1,310 | 1,220 | 926   | 814 | 1,140 | 1,220 | 1,200 | 1,140 |
| 29  | 704 | 615   | 515 | 690   | 1,320 | 1,210 | 915   | 826 | 1,150 | 1,220 | 1,200 | 1,130 |
| 30  | 700 | ----- | 513 | 742   | 1,330 | 1,200 | 915   | 829 | 1,150 | 1,230 | 1,200 | 1,130 |
| 31  | 696 | ----- | 508 | ----- | 1,330 | ----- | 915   | 833 | ----- | 1,230 | ----- | 1,130 |
| MAX | 776 | 688   | 605 | 742   | 1,330 | 1,330 | 1,200 | 910 | 1,150 | 1,230 | 1,220 | 1,200 |
| MIN | 696 | 615   | 508 | 436   | 254   | 1,200 | 915   | 808 | 837   | 1,160 | 1,200 | 1,130 |

YEAR 1996

MAX 1,330 MIN 254

# NORTH PLATTE RIVER BASIN

**MITCHELL & GERING CANAL from North Platte River, 00101500 - 1996**

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 diversion for Mitchell and Gering District lands. Values published before 1985 for this diversion site did not include the delivery and carriage losses charged to the Gering Irrigation District.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR | MAY    | JUN    | JUL    | AUG    | SEP   | OCT | NOV | DEC |
|-----------|-----|-------|-----|-----|--------|--------|--------|--------|-------|-----|-----|-----|
| 1         |     |       |     | 0   | 100    | 107    | 300    | 325    | 224   |     |     |     |
| 2         |     |       |     | 0   | 153    | 108    | 317    | 326    | 225   |     |     |     |
| 3         |     |       |     | 0   | 155    | 108    | 336    | 324    | 224   |     |     |     |
| 4         |     |       |     | 0   | 156    | 110    | 347    | 322    | 211   |     |     |     |
| 5         |     |       |     | 0   | 156    | 108    | 350    | 321    | 202   |     |     |     |
| 6         |     |       |     | 0   | 167    | 107    | 347    | 321    | 202   |     |     |     |
| 7         |     |       |     | 0   | 169    | 107    | 347    | 325    | 203   |     |     |     |
| 8         |     |       |     | 0   | 172    | 108    | 351    | 332    | 203   |     |     |     |
| 9         |     |       |     | 0   | 187    | 107    | 349    | 333    | 200   |     |     |     |
| 10        |     |       |     | 0   | 191    | 106    | 347    | 337    | 201   |     |     |     |
| 11        |     |       |     | 0   | 186    | 107    | 337    | 337    | 201   |     |     |     |
| 12        |     |       |     | 0   | 192    | 105    | 333    | 336    | 201   |     |     |     |
| 13        |     |       |     | 0   | 192    | 105    | 332    | 336    | 202   |     |     |     |
| 14        |     |       |     | 0   | 193    | 110    | 331    | 337    | 203   |     |     |     |
| 15        |     |       |     | 0   | 194    | 111    | 330    | 337    | 203   |     |     |     |
| 16        |     |       |     | 0   | 191    | 109    | 313    | 336    | 202   |     |     |     |
| 17        |     |       |     | 0   | 192    | 110    | 307    | 336    | 190   |     |     |     |
| 18        |     |       |     | 0   | 191    | 110    | 308    | 335    | 180   |     |     |     |
| 19        |     |       |     | 0   | 191    | 113    | 314    | 337    | 180   |     |     |     |
| 20        |     |       |     | 0   | 192    | 133    | 319    | 336    | 180   |     |     |     |
| 21        |     |       |     | 0   | 197    | 142    | 320    | 338    | 51    |     |     |     |
| 22        |     |       |     | 0   | 196    | 143    | 327    | 339    | 0     |     |     |     |
| 23        |     |       |     | 0   | 194    | 142    | 332    | 320    | 0     |     |     |     |
| 24        |     |       |     | 0   | 187    | 155    | 331    | 297    | 0     |     |     |     |
| 25        |     |       |     | 0   | 187    | 190    | 326    | 297    | 0     |     |     |     |
| 26        |     |       |     | 0   | 188    | 200    | 324    | 298    | 0     |     |     |     |
| 27        |     |       |     | 0   | 189    | 225    | 323    | 280    | 0     |     |     |     |
| 28        |     |       |     | 0   | 159    | 269    | 325    | 263    | 0     |     |     |     |
| 29        |     |       |     | 0   | 108    | 283    | 325    | 264    | 0     |     |     |     |
| 30        |     | ----- |     | 0   | 111    | 284    | 325    | 264    | 0     |     |     |     |
| 31        |     | ----- |     | 0   | 107    | -----  | 326    | 243    | ----- |     |     |     |
| TOTAL     |     |       |     | 0   | 5,343  | 4,222  | 10,199 | 9,832  | 4,088 |     |     |     |
| MEAN      |     |       |     | 0   | 172    | 141    | 329    | 317    | 136   |     |     |     |
| MAX       |     |       |     | 0   | 197    | 284    | 351    | 339    | 225   |     |     |     |
| MIN       |     |       |     | 0   | 100    | 105    | 300    | 243    | 0     |     |     |     |
| AC-FT     |     |       |     | 0   | 10,600 | 8,370  | 20,230 | 19,500 | 8,110 |     |     |     |
| YEAR 1996 | MAX | 351   | MIN | 0   | AC-FT  | 66,810 |        |        |       |     |     |     |

## NORTH PLATTE RIVER BASIN

GERING CANAL from North Platte River via Mitchell and Gering Canal, 00056000 - 1996

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 furnished by United States Bureau of Reclamation. Values published before 1985 were adjusted to include carriage losses between the Mitchell &amp; Gering flumes.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL    | AUG    | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|--------|--------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 63     | 147    | 181    | 151   |     |       |     |
| 2         |     |       |     |       | 0     | 63     | 149    | 182    | 153   |     |       |     |
| 3         |     |       |     |       | 0     | 63     | 168    | 184    | 153   |     |       |     |
| 4         |     |       |     |       | 0     | 64     | 172    | 188    | 152   |     |       |     |
| 5         |     |       |     |       | 0     | 66     | 175    | 185    | 134   |     |       |     |
| 6         |     |       |     |       | 38    | 64     | 177    | 175    | 119   |     |       |     |
| 7         |     |       |     |       | 71    | 63     | 172    | 175    | 109   |     |       |     |
| 8         |     |       |     |       | 78    | 64     | 181    | 178    | 111   |     |       |     |
| 9         |     |       |     |       | 96    | 61     | 187    | 178    | 109   |     |       |     |
| 10        |     |       |     |       | 104   | 59     | 191    | 182    | 106   |     |       |     |
| 11        |     |       |     |       | 98    | 63     | 177    | 187    | 109   |     |       |     |
| 12        |     |       |     |       | 95    | 59     | 182    | 187    | 113   |     |       |     |
| 13        |     |       |     |       | 92    | 62     | 191    | 187    | 115   |     |       |     |
| 14        |     |       |     |       | 97    | 59     | 197    | 185    | 111   |     |       |     |
| 15        |     |       |     |       | 96    | 60     | 188    | 189    | 105   |     |       |     |
| 16        |     |       |     |       | 93    | 60     | 175    | 191    | 106   |     |       |     |
| 17        |     |       |     |       | 93    | 63     | 171    | 188    | 108   |     |       |     |
| 18        |     |       |     |       | 98    | 74     | 167    | 185    | 100   |     |       |     |
| 19        |     |       |     |       | 103   | 72     | 174    | 184    | 104   |     |       |     |
| 20        |     |       |     |       | 103   | 84     | 185    | 184    | 100   |     |       |     |
| 21        |     |       |     |       | 106   | 91     | 188    | 191    | 71    |     |       |     |
| 22        |     |       |     |       | 105   | 80     | 192    | 182    | 0     |     |       |     |
| 23        |     |       |     |       | 109   | 78     | 184    | 201    | 0     |     |       |     |
| 24        |     |       |     |       | 108   | 74     | 184    | 175    | 0     |     |       |     |
| 25        |     |       |     |       | 106   | 95     | 178    | 175    | 0     |     |       |     |
| 26        |     |       |     |       | 126   | 108    | 172    | 178    | 0     |     |       |     |
| 27        |     |       |     |       | 121   | 112    | 177    | 185    | 0     |     |       |     |
| 28        |     |       |     |       | 91    | 121    | 178    | 164    | 0     |     |       |     |
| 29        |     |       |     |       | 67    | 142    | 182    | 166    | 0     |     |       |     |
| 30        |     | ----- |     |       | 71    | 142    | 178    | 171    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 66    | -----  | 179    | 155    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 2,431 | 2,329  | 5,518  | 5,618  | 2,439 |     |       |     |
| MEAN      |     |       |     |       | 78.4  | 77.6   | 178    | 181    | 81.3  |     |       |     |
| MAX       |     |       |     |       | 126   | 142    | 197    | 201    | 153   |     |       |     |
| MIN       |     |       |     |       | 0     | 59     | 147    | 155    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 4,820 | 4,620  | 10,940 | 11,140 | 4,840 |     |       |     |
| YEAR 1996 | MAX | 201   | MIN | 0     | AC-FT | 36,370 |        |        |       |     |       |     |

# NORTH PLATTE RIVER BASIN

**TRI-STATE CANAL from North Platte River, 00145000 - 1996**

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.  
E indicates estimated daily discharge.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY    | JUN     | JUL    | AUG    | SEP    | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|--------|---------|--------|--------|--------|-----|-------|-----|
| 1         |     |       |     | 0     | 550E   | 252     | 1,300  | 1,240  | 858    |     |       |     |
| 2         |     |       |     | 0     | 549    | 252     | 1,300  | 1,210  | 864    |     |       |     |
| 3         |     |       |     | 0     | 578    | 254     | 1,350  | 1,190  | 816    |     |       |     |
| 4         |     |       |     | 0     | 564    | 251     | 1,380  | 1,200  | 768    |     |       |     |
| 5         |     |       |     | 0     | 560    | 244     | 1,390  | 1,190  | 771    |     |       |     |
| 6         |     |       |     | 0     | 556    | 240     | 1,380  | 1,190  | 731    |     |       |     |
| 7         |     |       |     | 0     | 553    | 236     | 1,370  | 1,180  | 668    |     |       |     |
| 8         |     |       |     | 0     | 551    | 235     | 1,370  | 1,180  | 620    |     |       |     |
| 9         |     |       |     | 0     | 554    | 234     | 1,380  | 1,180  | 609    |     |       |     |
| 10        |     |       |     | 0     | 555    | 237     | 1,370  | 1,190  | 604    |     |       |     |
| 11        |     |       |     | 0     | 557    | 310     | 1,360  | 1,180  | 599    |     |       |     |
| 12        |     |       |     | 0     | 558    | 511     | 1,370  | 1,190  | 598    |     |       |     |
| 13        |     |       |     | 0     | 559    | 595     | 1,360  | 1,190  | 593    |     |       |     |
| 14        |     |       |     | 0     | 562    | 669     | 1,360  | 1,200  | 599    |     |       |     |
| 15        |     |       |     | 0     | 555    | 659     | 1,310  | 1,200  | 604    |     |       |     |
| 16        |     |       |     | 0     | 578    | 655     | 1,300  | 1,190  | 569    |     |       |     |
| 17        |     |       |     | 0     | 590    | 653     | 1,290  | 1,190  | 518    |     |       |     |
| 18        |     |       |     | 0     | 582    | 650     | 1,260  | 1,190  | 519    |     |       |     |
| 19        |     |       |     | 0     | 584    | 675     | 1,270  | 1,190  | 528    |     |       |     |
| 20        |     |       |     | 0     | 580    | 709     | 1,270  | 1,200  | 530    |     |       |     |
| 21        |     |       |     | 0     | 579    | 699     | 1,270  | 1,190  | 531    |     |       |     |
| 22        |     |       |     | 0     | 577    | 698     | 1,270  | 1,170  | 531    |     |       |     |
| 23        |     |       |     | 0     | 573    | 686     | 1,280  | 1,160  | 530    |     |       |     |
| 24        |     |       |     | 200E  | 522    | 764     | 1,270  | 1,120  | 219    |     |       |     |
| 25        |     |       |     | 358   | 440    | 842     | 1,250  | 1,120  | 0      |     |       |     |
| 26        |     |       |     | 449   | 415    | 895     | 1,260  | 1,120  | 0      |     |       |     |
| 27        |     |       |     | 500E  | 306    | 1,080   | 1,240  | 1,070  | 0      |     |       |     |
| 28        |     |       |     | 550E  | 278    | 1,170   | 1,230  | 1,050  | 0      |     |       |     |
| 29        |     |       |     | 596   | 283    | 1,190   | 1,230  | 1,030  | 0      |     |       |     |
| 30        |     | ----- |     | 560E  | 277    | 1,220   | 1,240  | 1,030  | 0      |     |       |     |
| 31        |     | ----- |     | ----- | 264    | -----   | 1,240  | 956    | -----  |     | ----- |     |
| TOTAL     |     |       |     | 3,213 | 15,789 | 17,765  | 40,520 | 35,886 | 14,779 |     |       |     |
| MEAN      |     |       |     | 107   | 509    | 592     | 1,307  | 1,158  | 493    |     |       |     |
| MAX       |     |       |     | 596   | 590    | 1,220   | 1,390  | 1,240  | 864    |     |       |     |
| MIN       |     |       |     | 0     | 264    | 234     | 1,230  | 956    | 0      |     |       |     |
| AC-FT     |     |       |     | 6,370 | 31,320 | 35,240  | 80,370 | 71,180 | 29,310 |     |       |     |
| YEAR 1996 | MAX | 1,390 | MIN | 0     | AC-FT  | 253,800 |        |        |        |     |       |     |



# NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Sheep Creek, 00144700 - 1996

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

GAGE.--Continuous Stage Recorder

PERIOD OF RECORD.--1986 - present

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP     | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|---------|-----|-------|-----|
| 1         |     |       |     | 0     | 44    | 0      | 39    | 70    | 83      |     |       |     |
| 2         |     |       |     | 0     | 44    | 0      | 37    | 69    | 84      |     |       |     |
| 3         |     |       |     | 0     | 43    | 0      | 38    | 71    | 83      |     |       |     |
| 4         |     |       |     | 0     | 43    | 0      | 38    | 73    | 81      |     |       |     |
| 5         |     |       |     | 0     | 42    | 0      | 40    | 73    | 81      |     |       |     |
| 6         |     |       |     | 0     | 42    | 0      | 42    | 69    | 85      |     |       |     |
| 7         |     |       |     | 0     | 41    | 0      | 42    | 69    | 86      |     |       |     |
| 8         |     |       |     | 0     | 42    | 0      | 44    | 69    | 86      |     |       |     |
| 9         |     |       |     | 0     | 44    | 0      | 48    | 68    | 87      |     |       |     |
| 10        |     |       |     | 0     | 44    | 0      | 49    | 70    | 87      |     |       |     |
| 11        |     |       |     | 0     | 44    | 0      | 49    | 70    | 88      |     |       |     |
| 12        |     |       |     | 0     | 43    | 0      | 50    | 73    | 90      |     |       |     |
| 13        |     |       |     | 0     | 44    | 0      | 51    | 66    | 90      |     |       |     |
| 14        |     |       |     | 0     | 44    | 0      | 52    | 67    | 88      |     |       |     |
| 15        |     |       |     | 0     | 44    | 0      | 51    | 69    | 90      |     |       |     |
| 16        |     |       |     | 0     | 44    | 0      | 54    | 69    | 88      |     |       |     |
| 17        |     |       |     | 0     | 45    | 0      | 52    | 69    | 90      |     |       |     |
| 18        |     |       |     | 0     | 45    | 0      | 54    | 73    | 90      |     |       |     |
| 19        |     |       |     | 0     | 45    | 0      | 51    | 76    | 91      |     |       |     |
| 20        |     |       |     | 0     | 47    | 0      | 50    | 74    | 90      |     |       |     |
| 21        |     |       |     | 0     | 46    | 0      | 50    | 73    | 87      |     |       |     |
| 22        |     |       |     | 0     | 47    | 0      | 48    | 75    | 87      |     |       |     |
| 23        |     |       |     | 0     | 49    | 0      | 49    | 80    | 7.0     |     |       |     |
| 24        |     |       |     | 0     | 49    | 42     | 49    | 78    | 0       |     |       |     |
| 25        |     |       |     | 36    | 49    | 41     | 49    | 78    | 0       |     |       |     |
| 26        |     |       |     | 44    | 53    | 40     | 51    | 77    | 0       |     |       |     |
| 27        |     |       |     | 45    | 51    | 41     | 55    | 77    | 0       |     |       |     |
| 28        |     |       |     | 45    | 0     | 40     | 57    | 77    | 0       |     |       |     |
| 29        |     |       |     | 45    | 0     | 42     | 78    | 79    | 0       |     |       |     |
| 30        |     | ----- |     | 44    | 0     | 40     | 68    | 82    | 0       |     |       |     |
| 31        |     | ----- |     | ----- | 0     | -----  | 68    | 84    | -----   |     | ----- |     |
| TOTAL     |     |       |     | 259   | 1,218 | 286    | 1,553 | 2,267 | 1,919.0 |     |       |     |
| MEAN      |     |       |     | 8.63  | 39.3  | 9.53   | 50.1  | 73.1  | 64.0    |     |       |     |
| MAX       |     |       |     | 45    | 53    | 42     | 78    | 84    | 91      |     |       |     |
| MIN       |     |       |     | 0     | 0     | 0      | 37    | 66    | 0       |     |       |     |
| AC-FT     |     |       |     | 514   | 2,420 | 567    | 3,080 | 4,500 | 3,810   |     |       |     |
| YEAR 1996 | MAX | 91    | MIN | 0     | AC-FT | 14,880 |       |       |         |     |       |     |

# NORTH PLATTE RIVER BASIN

**TRI-STATE CANAL from Akers Draw, 00144500 - 1996**

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.  
E indicates estimated daily discharge.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG  | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|------|-------|-----|-------|-----|
| 1         |     |       |     |       | 9.0   | 8.0   | 9.0E  | 17   | 15    |     |       |     |
| 2         |     |       |     |       | 9.0   | 7.0   | 9.0E  | 14   | 16    |     |       |     |
| 3         |     |       |     |       | 8.0   | 7.0   | 9.0E  | 15   | 18    |     |       |     |
| 4         |     |       |     |       | 8.0   | 8.0   | 10 E  | 16   | 19    |     |       |     |
| 5         |     |       |     |       | 9.0   | 7.0   | 12    | 15   | 21    |     |       |     |
| 6         |     |       |     |       | 9.0   | 7.0   | 13    | 14   | 11    |     |       |     |
| 7         |     |       |     |       | 9.0   | 7.0   | 12    | 13   | 11    |     |       |     |
| 8         |     |       |     |       | 9.0   | 7.0   | 11    | 13   | 11    |     |       |     |
| 9         |     |       |     |       | 9.0   | 8.0   | 13    | 13   | 11    |     |       |     |
| 10        |     |       |     |       | 9.0   | 8.0   | 12    | 13   | 11    |     |       |     |
| 11        |     |       |     |       | 9.0   | 9.0   | 10    | 13   | 11    |     |       |     |
| 12        |     |       |     |       | 8.0   | 8.0   | 10    | 13   | 11    |     |       |     |
| 13        |     |       |     |       | 9.0   | 8.0   | 9.0   | 13   | 10    |     |       |     |
| 14        |     |       |     |       | 9.0   | 9.0   | 9.0   | 13   | 10    |     |       |     |
| 15        |     |       |     |       | 9.0   | 9.0   | 9.0   | 13   | 10    |     |       |     |
| 16        |     |       |     |       | 9.0   | 9.0   | 9.0   | 11   | 9.0   |     |       |     |
| 17        |     |       |     |       | 9.0   | 9.0   | 9.0   | 13   | 9.0   |     |       |     |
| 18        |     |       |     |       | 10    | 9.0   | 11    | 14   | 9.0   |     |       |     |
| 19        |     |       |     |       | 10    | 9.0   | 10    | 15   | 9.0   |     |       |     |
| 20        |     |       |     |       | 10    | 9.0   | 12    | 15   | 9.0   |     |       |     |
| 21        |     |       |     |       | 10    | 9.0   | 11    | 13   | 9.0   |     |       |     |
| 22        |     |       |     |       | 9.0   | 9.0E  | 12    | 12   | 9.0   |     |       |     |
| 23        |     |       |     |       | 9.0   | 9.0E  | 13    | 12   | 9.0   |     |       |     |
| 24        |     |       |     |       | 9.0   | 9.0E  | 11    | 15   | 9.0   |     |       |     |
| 25        |     |       |     |       | 9.0   | 9.0E  | 13    | 17   | 10    |     |       |     |
| 26        |     |       |     |       | 10    | 9.0E  | 13    | 19   | 10    |     |       |     |
| 27        |     |       |     |       | 9.0   | 9.0E  | 12    | 21   | 10    |     |       |     |
| 28        |     |       |     |       | 9.0   | 10    | 13    | 23   | 10    |     |       |     |
| 29        |     |       |     |       | 9.0   | 9.0E  | 16    | 25   | 11    |     |       |     |
| 30        |     | ----- |     |       | 8.0   | 9.0E  | 17    | 13   | 11    |     |       |     |
| 31        |     | ----- |     | ----- | 9.0   | ----- | 19    | 14   | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 280.0 | 253.0 | 358.0 | 460  | 339.0 |     |       |     |
| MEAN      |     |       |     |       | 9.03  | 8.43  | 11.5  | 14.8 | 11.3  |     |       |     |
| MAX       |     |       |     |       | 10    | 10    | 19    | 25   | 21    |     |       |     |
| MIN       |     |       |     |       | 8.0   | 7.0   | 9.0   | 11   | 9.0   |     |       |     |
| AC-FT     |     |       |     |       | 555   | 502   | 710   | 912  | 672   |     |       |     |
| YEAR 1996 | MAX | 25    | MIN | 7.0   | AC-FT | 3,350 |       |      |       |     |       |     |

## NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Dry Spotted Tail Creek, 00144600 - 1996

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1986 - present

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR   | APR | MAY   | JUN   | JUL  | AUG   | SEP   | OCT   | NOV | DEC |
|-----------|-----|-------|-------|-----|-------|-------|------|-------|-------|-------|-----|-----|
| 1         |     |       |       |     | 3.0   | 0     | 10   | 20    | 22    |       |     |     |
| 2         |     |       |       |     | 3.0   | 0     | 11   | 20    | 22    |       |     |     |
| 3         |     |       |       |     | 4.0   | 0     | 11   | 20    | 23    |       |     |     |
| 4         |     |       |       |     | 4.0   | 0     | 11   | 22    | 23    |       |     |     |
| 5         |     |       |       |     | 4.0   | 0     | 11   | 20    | 23    |       |     |     |
| 6         |     |       |       |     | 5.0   | 0     | 10   | 19    | 24    |       |     |     |
| 7         |     |       |       |     | 5.0   | 0     | 12   | 19    | 24    |       |     |     |
| 8         |     |       |       |     | 6.0   | 0     | 11   | 21    | 23    |       |     |     |
| 9         |     |       |       |     | 6.0   | 0     | 12   | 22    | 23    |       |     |     |
| 10        |     |       |       |     | 7.0   | 0     | 13   | 21    | 23    |       |     |     |
| 11        |     |       |       |     | 7.0   | 0     | 14   | 22    | 22    |       |     |     |
| 12        |     |       |       |     | 7.0   | 0     | 16   | 22    | 21    |       |     |     |
| 13        |     |       |       |     | 7.0   | 0     | 19   | 22    | 23    |       |     |     |
| 14        |     |       |       |     | 8.0   | 0     | 19   | 20    | 23    |       |     |     |
| 15        |     |       |       |     | 8.0   | 0     | 16   | 20    | 23    |       |     |     |
| 16        |     |       |       |     | 8.0   | 0     | 18   | 22    | 23    |       |     |     |
| 17        |     |       |       |     | 9.0   | 0     | 16   | 22    | 24    |       |     |     |
| 18        |     |       |       |     | 9.0   | 0     | 16   | 22    | 25    |       |     |     |
| 19        |     |       |       |     | 10    | 0     | 15   | 23    | 23    |       |     |     |
| 20        |     |       |       |     | 10    | 0     | 16   | 22    | 21    |       |     |     |
| 21        |     |       |       |     | 10    | 0     | 17   | 22    | 22    |       |     |     |
| 22        |     |       |       |     | 11    | 6.0   | 17   | 23    | 20    |       |     |     |
| 23        |     |       |       |     | 11    | 8.0   | 18   | 28    | 4.0   |       |     |     |
| 24        |     |       |       |     | 11    | 6.0   | 19   | 29    | 0     |       |     |     |
| 25        |     |       |       |     | 11    | 5.0   | 19   | 27    | 0     |       |     |     |
| 26        |     |       |       |     | 16    | 7.0   | 18   | 27    | 0     |       |     |     |
| 27        |     |       |       |     | 14    | 8.0   | 19   | 26    | 0     |       |     |     |
| 28        |     |       |       |     | 2.0   | 8.0   | 18   | 24    | 0     |       |     |     |
| 29        |     |       |       |     | 0     | 10    | 19   | 24    | 0     |       |     |     |
| 30        |     | ----- |       |     | 0     | 10    | 20   | 24    | 0     |       |     |     |
| 31        |     | ----- | ----- |     | 0     | ----- | 20   | 23    | ----- | ----- |     |     |
| TOTAL     |     |       |       |     | 216.0 | 68.0  | 481  | 698   | 504.0 |       |     |     |
| MEAN      |     |       |       |     | 6.97  | 2.27  | 15.5 | 22.5  | 16.8  |       |     |     |
| MAX       |     |       |       |     | 16    | 10    | 20   | 29    | 25    |       |     |     |
| MIN       |     |       |       |     | 0     | 0     | 10   | 19    | 0     |       |     |     |
| AC-FT     |     |       |       |     | 428   | 135   | 954  | 1,380 | 1,000 |       |     |     |
| YEAR 1996 | MAX | 29    | MIN   | 0   | AC-FT | 3,900 |      |       |       |       |     |     |

# NORTH PLATTE RIVER BASIN

**TRI-STATE CANAL from Wet Spotted Tail Creek, 00144900 - 1996**

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1986 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-----|-----|
| 1         |     |       |     |       | 5.0   | 12    | 10    | 12    | 15    |     |     |     |
| 2         |     |       |     |       | 5.0   | 12    | 10    | 13    | 13    |     |     |     |
| 3         |     |       |     |       | 5.0   | 13    | 10    | 15    | 15    |     |     |     |
| 4         |     |       |     |       | 6.0   | 13    | 9.0   | 20    | 17    |     |     |     |
| 5         |     |       |     |       | 5.0   | 12    | 11    | 15    | 17    |     |     |     |
| 6         |     |       |     |       | 5.0   | 13    | 15    | 17    | 21    |     |     |     |
| 7         |     |       |     |       | 5.0   | 12    | 11    | 14    | 20    |     |     |     |
| 8         |     |       |     |       | 7.0   | 11    | 8.0   | 15    | 19    |     |     |     |
| 9         |     |       |     |       | 13    | 11    | 11    | 15    | 17    |     |     |     |
| 10        |     |       |     |       | 9.0   | 11    | 11    | 15    | 21    |     |     |     |
| 11        |     |       |     |       | 6.0   | 10    | 10    | 12    | 21    |     |     |     |
| 12        |     |       |     |       | 9.0   | 9.0   | 13    | 15    | 23    |     |     |     |
| 13        |     |       |     |       | 12    | 9.0   | 15    | 16    | 23    |     |     |     |
| 14        |     |       |     |       | 8.0   | 9.0   | 18    | 13    | 25    |     |     |     |
| 15        |     |       |     |       | 7.0   | 9.0   | 17    | 14    | 25    |     |     |     |
| 16        |     |       |     |       | 7.0   | 9.0   | 15    | 13    | 23    |     |     |     |
| 17        |     |       |     |       | 8.0   | 8.0   | 14    | 12    | 33    |     |     |     |
| 18        |     |       |     |       | 7.0   | 9.0   | 14    | 19    | 42    |     |     |     |
| 19        |     |       |     |       | 8.0   | 8.0   | 12    | 19    | 37    |     |     |     |
| 20        |     |       |     |       | 9.0   | 8.0   | 10    | 12    | 27    |     |     |     |
| 21        |     |       |     |       | 10    | 8.0   | 9.0   | 13    | 19    |     |     |     |
| 22        |     |       |     |       | 8.0   | 9.0   | 9.0   | 13    | 18    |     |     |     |
| 23        |     |       |     |       | 10    | 12    | 12    | 17    | 19    |     |     |     |
| 24        |     |       |     |       | 12    | 10    | 14    | 14    | 19    |     |     |     |
| 25        |     |       |     |       | 12    | 10    | 11    | 13    | 19    |     |     |     |
| 26        |     |       |     |       | 27    | 9.0   | 12    | 6.0   | 20    |     |     |     |
| 27        |     |       |     |       | 20    | 8.0   | 10    | 11    | 21    |     |     |     |
| 28        |     |       |     |       | 16    | 11    | 11    | 15    | 21    |     |     |     |
| 29        |     |       |     |       | 16    | 13    | 12    | 13    | 21    |     |     |     |
| 30        |     | ----- |     |       | 12    | 10    | 12    | 21    | 19    |     |     |     |
| 31        |     | ----- |     | ----- | 12    | ----- | 12    | 17    | ----- |     |     |     |
| TOTAL     |     |       |     |       | 301.0 | 308.0 | 368.0 | 449.0 | 650   |     |     |     |
| MEAN      |     |       |     |       | 9.71  | 10.3  | 11.9  | 14.5  | 21.7  |     |     |     |
| MAX       |     |       |     |       | 27    | 13    | 18    | 21    | 42    |     |     |     |
| MIN       |     |       |     |       | 5.0   | 8.0   | 8.0   | 6.0   | 13    |     |     |     |
| AC-FT     |     |       |     |       | 597   | 611   | 730   | 891   | 1,290 |     |     |     |
| YEAR 1996 | MAX | 42    | MIN | 5.0   | AC-FT | 4,120 |       |       |       |     |     |     |

# NORTH PLATTE RIVER BASIN

TRI-STATE CANAL from Tub Springs, 00144800 - 1996

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1986 - present

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 0     | 21    | 26    | 34    |     |       |     |
| 2         |     |       |     |       | 0     | 0     | 21    | 31    | 33    |     |       |     |
| 3         |     |       |     |       | 0     | 0     | 23    | 31    | 33    |     |       |     |
| 4         |     |       |     |       | 0     | 0     | 23    | 30    | 32    |     |       |     |
| 5         |     |       |     |       | 0     | 0     | 23    | 30    | 32    |     |       |     |
| 6         |     |       |     |       | 0     | 0     | 23    | 30    | 33    |     |       |     |
| 7         |     |       |     |       | 0     | 0     | 24    | 31    | 32    |     |       |     |
| 8         |     |       |     |       | 0     | 0     | 24    | 32    | 32    |     |       |     |
| 9         |     |       |     |       | 0     | 0     | 25    | 31    | 32    |     |       |     |
| 10        |     |       |     |       | 0     | 0     | 25    | 32    | 31    |     |       |     |
| 11        |     |       |     |       | 0     | 0     | 27    | 30    | 31    |     |       |     |
| 12        |     |       |     |       | 0     | 0     | 30    | 30    | 31    |     |       |     |
| 13        |     |       |     |       | 0     | 0     | 31    | 31    | 31    |     |       |     |
| 14        |     |       |     |       | 0     | 0     | 31    | 31    | 32    |     |       |     |
| 15        |     |       |     |       | 0     | 0     | 31    | 31    | 33    |     |       |     |
| 16        |     |       |     |       | 7.0   | 0     | 31    | 31    | 33    |     |       |     |
| 17        |     |       |     |       | 14    | 0     | 30    | 31    | 35    |     |       |     |
| 18        |     |       |     |       | 14    | 0     | 32    | 32    | 35    |     |       |     |
| 19        |     |       |     |       | 15    | 0     | 32    | 31    | 35    |     |       |     |
| 20        |     |       |     |       | 15    | 0     | 31    | 34    | 32    |     |       |     |
| 21        |     |       |     |       | 15    | 0     | 29    | 33    | 31    |     |       |     |
| 22        |     |       |     |       | 16    | 7.0   | 29    | 31    | 31    |     |       |     |
| 23        |     |       |     |       | 16    | 16    | 27    | 32    | 6.0   |     |       |     |
| 24        |     |       |     |       | 17    | 17    | 27    | 33    | 0     |     |       |     |
| 25        |     |       |     |       | 5.0   | 16    | 28    | 34    | 0     |     |       |     |
| 26        |     |       |     |       | 0     | 18    | 13    | 35    | 0     |     |       |     |
| 27        |     |       |     |       | 0     | 17    | 13    | 34    | 0     |     |       |     |
| 28        |     |       |     |       | 0     | 20    | 15    | 34    | 0     |     |       |     |
| 29        |     |       |     |       | 0     | 20    | 17    | 35    | 0     |     |       |     |
| 30        |     | ----- |     |       | 0     | 22    | 20    | 37    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 0     | ----- | 24    | 36    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 134.0 | 153.0 | 780   | 992   | 720.0 |     |       |     |
| MEAN      |     |       |     |       | 4.32  | 5.10  | 25.2  | 32.0  | 24.0  |     |       |     |
| MAX       |     |       |     |       | 17    | 22    | 32    | 37    | 35    |     |       |     |
| MIN       |     |       |     |       | 0     | 0     | 13    | 28    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 266   | 303   | 1,550 | 1,970 | 1,430 |     |       |     |
| YEAR 1996 | MAX | 37    | MIN | 0     | AC-FT | 5,510 |       |       |       |     |       |     |

# NORTH PLATTE RIVER BASIN

**NORTHPORT CANAL from North Platte River and Drains via Tri-State Canal, 00115000 - 1996**

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

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

PERIOD OF RECORD.--1920, 1922 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL    | AUG    | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|--------|--------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 88     | 214    | 265    | 211   |     |       |     |
| 2         |     |       |     |       | 0     | 88     | 222    | 259    | 198   |     |       |     |
| 3         |     |       |     |       | 0     | 92     | 222    | 262    | 206   |     |       |     |
| 4         |     |       |     |       | 0     | 90     | 231    | 266    | 173   |     |       |     |
| 5         |     |       |     |       | 0     | 90     | 248    | 265    | 152   |     |       |     |
| 6         |     |       |     |       | 19    | 93     | 238    | 262    | 145   |     |       |     |
| 7         |     |       |     |       | 59    | 106    | 237    | 263    | 151   |     |       |     |
| 8         |     |       |     |       | 110   | 104    | 235    | 261    | 132   |     |       |     |
| 9         |     |       |     |       | 120   | 103    | 246    | 261    | 125   |     |       |     |
| 10        |     |       |     |       | 119   | 93     | 261    | 261    | 105   |     |       |     |
| 11        |     |       |     |       | 121   | 85     | 258    | 262    | 99    |     |       |     |
| 12        |     |       |     |       | 123   | 80     | 258    | 258    | 100   |     |       |     |
| 13        |     |       |     |       | 120   | 107    | 262    | 259    | 100   |     |       |     |
| 14        |     |       |     |       | 125   | 118    | 263    | 258    | 98    |     |       |     |
| 15        |     |       |     |       | 122   | 125    | 263    | 226    | 99    |     |       |     |
| 16        |     |       |     |       | 125   | 125    | 263    | 141    | 100   |     |       |     |
| 17        |     |       |     |       | 124   | 119    | 261    | 200    | 102   |     |       |     |
| 18        |     |       |     |       | 125   | 118    | 263    | 204    | 100   |     |       |     |
| 19        |     |       |     |       | 125   | 120    | 265    | 245    | 93    |     |       |     |
| 20        |     |       |     |       | 125   | 121    | 262    | 259    | 45    |     |       |     |
| 21        |     |       |     |       | 123   | 122    | 263    | 258    | 27    |     |       |     |
| 22        |     |       |     |       | 130   | 120    | 262    | 262    | 28    |     |       |     |
| 23        |     |       |     |       | 130   | 131    | 262    | 262    | 26    |     |       |     |
| 24        |     |       |     |       | 124   | 144    | 263    | 261    | 29    |     |       |     |
| 25        |     |       |     |       | 128   | 180    | 263    | 261    | 20    |     |       |     |
| 26        |     |       |     |       | 129   | 183    | 266    | 261    | 0     |     |       |     |
| 27        |     |       |     |       | 129   | 180    | 265    | 258    | 0     |     |       |     |
| 28        |     |       |     |       | 125   | 180    | 263    | 258    | 0     |     |       |     |
| 29        |     |       |     |       | 122   | 183    | 266    | 256    | 0     |     |       |     |
| 30        |     | ----- |     |       | 108   | 210    | 265    | 255    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 106   | -----  | 266    | 223    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 3,016 | 3,698  | 7,876  | 7,752  | 2,666 |     |       |     |
| MEAN      |     |       |     |       | 97.3  | 123    | 254    | 250    | 88.9  |     |       |     |
| MAX       |     |       |     |       | 130   | 210    | 266    | 266    | 211   |     |       |     |
| MIN       |     |       |     |       | 0     | 80     | 214    | 141    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 5,980 | 7,330  | 15,620 | 15,380 | 5,290 |     |       |     |
| YEAR 1996 | MAX | 266   | MIN | 0     | AC-FT | 49,600 |        |        |       |     |       |     |

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER passing Tri-State Dam, 00225000 - 1996

LOCATION.--NW1/4NE1/4 Sec. 10-23-58 W. near Henry, Scotts Bluff County, Lat. 41° 59' 05", Long. 104° 01' 59", on left bank 750 feet downstream from spill gates on irrigation diversion structure for Tri-State Canal, 1.0 mile southeast of Henry, NE on U.S. Highway 26 then .25 mile south to river.

DRAINAGE AREA.--22,222 square miles, approximately 20,290 square miles contributes to surface runoff.

GAGE.--Continuous stage recorder. Elevation of gage is about 4,010 feet above sea level from topographic map.

PERIOD OF RECORD.--1947 - 1964, 1967 - 1992, Irrigation season only, 1993 - present, all year operation.

REMARKS.--E indicates estimated discharge. Estimated records January 2,6-7,17-21, 23-February 8, March 25, April 15-17, June 2-25, December 17-28. Records fair except estimated records poor.

EXTREMES FOR CURRENT YEAR.--Estimated peak discharge 3,250 cubic feet per second June 8, gage height 7.22 feet; minimum daily discharge 5.5 cubic feet per second July 1.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB       | MAR    | APR    | MAY    | JUN     | JUL     | AUG     | SEP    | OCT     | NOV    | DEC    |
|-----------|--------|-----------|--------|--------|--------|---------|---------|---------|--------|---------|--------|--------|
| 1         | 311    | 220E      | 277    | 262    | 66     | 2,750   | 5.5     | 142     | 98     | 743     | 355    | 268    |
| 2         | 310E   | 220E      | 275    | 264    | 122    | 2,910E  | 7.5     | 78      | 78     | 590     | 353    | 265    |
| 3         | 310    | 240E      | 274    | 265    | 254    | 2,970E  | 58      | 64      | 71     | 509     | 347    | 264    |
| 4         | 311    | 260E      | 277    | 269    | 384    | 3,090E  | 126     | 92      | 41     | 465     | 335    | 264    |
| 5         | 301    | 280E      | 274    | 271    | 417    | 3,120E  | 146     | 79      | 17     | 476     | 326    | 265    |
| 6         | 310E   | 300E      | 277    | 270    | 389    | 3,100E  | 132     | 38      | 50     | 471     | 326    | 266    |
| 7         | 320E   | 310E      | 281    | 294    | 378    | 3,150E  | 125     | 30      | 49     | 437     | 323    | 269    |
| 8         | 331    | 320E      | 283    | 302    | 323    | 3,200E  | 117     | 15      | 49     | 423     | 319    | 271    |
| 9         | 327    | 350       | 285    | 304    | 241    | 3,180E  | 103     | 44      | 41     | 410     | 319    | 273    |
| 10        | 327    | 335       | 294    | 311    | 185    | 3,170E  | 142     | 83      | 28     | 408     | 316    | 275    |
| 11        | 319    | 311       | 297    | 311    | 158    | 3,090E  | 120     | 77      | 20     | 405     | 312    | 276    |
| 12        | 313    | 302       | 286    | 286    | 164    | 2,700E  | 133     | 63      | 19     | 398     | 307    | 277    |
| 13        | 317    | 297       | 291    | 267    | 132    | 2,660E  | 103     | 103     | 16     | 401     | 304    | 278    |
| 14        | 319    | 307       | 294    | 271    | 177    | 2,640E  | 110     | 100     | 56     | 391     | 302    | 280    |
| 15        | 318    | 317       | 300    | 300E   | 269    | 2,900E  | 95      | 100     | 84     | 363     | 301    | 277    |
| 16        | 318    | 312       | 305    | 280E   | 259    | 2,980E  | 85      | 125     | 101    | 371     | 303    | 279    |
| 17        | 300E   | 308       | 303    | 250E   | 236    | 3,050E  | 84      | 107     | 104    | 380     | 297    | 240E   |
| 18        | 290E   | 305       | 304    | 237    | 202    | 2,940E  | 53      | 109     | 82     | 379     | 295    | 250E   |
| 19        | 300E   | 310       | 306    | 232    | 163    | 2,400E  | 70      | 124     | 83     | 385     | 301    | 260E   |
| 20        | 300E   | 305       | 303    | 227    | 140    | 2,090E  | 88      | 117     | 56     | 384     | 295    | 260E   |
| 21        | 300E   | 302       | 301    | 220    | 107    | 1,880E  | 78      | 80      | 100    | 374     | 289    | 260E   |
| 22        | 299    | 304       | 295    | 213    | 69     | 1,810E  | 80      | 50      | 112    | 375     | 287    | 260E   |
| 23        | 200E   | 299       | 293    | 202    | 119    | 1,820E  | 98      | 133     | 77     | 361     | 283    | 270E   |
| 24        | 180E   | 291       | 294    | 108    | 315    | 1,530E  | 78      | 101     | 207    | 350     | 280    | 260E   |
| 25        | 190E   | 292       | 280E   | 32     | 419    | 1,280E  | 72      | 81      | 488    | 351     | 277    | 250E   |
| 26        | 200E   | 292       | 279    | 29     | 616    | 1,050   | 74      | 83      | 598    | 352     | 275    | 260E   |
| 27        | 210E   | 287       | 281    | 30     | 980    | 558     | 103     | 85      | 700    | 346     | 271    | 270E   |
| 28        | 210E   | 278       | 279    | 31     | 1,140  | 214     | 109     | 40      | 747    | 347     | 267    | 270E   |
| 29        | 220E   | 272       | 275    | 48     | 1,830  | 46      | 125     | 8.2     | 764    | 366     | 270    | 276    |
| 30        | 220E   | -----     | 272    | 86     | 2,450  | 17      | 124     | 45      | 777    | 367     | 268    | 276    |
| 31        | 220E   | -----     | 267    | -----  | 2,730  | -----   | 172     | 106     | -----  | 362     | -----  | 275    |
| TOTAL     | 8,701  | 8,526     | 8,902  | 6,472  | 15,454 | 68,295  | 3,016.0 | 2,522.2 | 5,713  | 12,740  | 9,103  | 8,284  |
| MEAN      | 281    | 294       | 287    | 216    | 499    | 2,277   | 97.3    | 81.4    | 190    | 411     | 303    | 267    |
| MAX       | 331    | 350       | 306    | 311    | 2,730  | 3,200   | 172     | 142     | 777    | 743     | 355    | 280    |
| MIN       | 180    | 220       | 267    | 29     | 66     | 17      | 5.5     | 8.2     | 16     | 346     | 267    | 240    |
| AC-FT     | 17,260 | 16,910    | 17,660 | 12,840 | 30,650 | 135,500 | 5,980   | 5,000   | 11,330 | 25,270  | 18,060 | 16,430 |
| YEAR 1996 | TOTAL  | 157,728.2 | MEAN   | 431    | MAX    | 3,200   | MIN     | 5.5     | AC-FT  | 312,900 |        |        |

# NORTH PLATTE RIVER BASIN

**HORSE CREEK near Lyman, 06677500 - 1996**

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

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

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

PERIOD OF RECORD.--Feb. 1931 to present

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

E indicates estimated daily discharge. Estimated records January 5-8, 17-February 14, 28-March 1, 24-31, November 18-20, December 15-31. Records good, except estimated records poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 5,110 cubic feet per second June 6, 1967, gage height 10.62 feet; minimum daily discharge 0.40 cubic feet per second February 1, 1949.

EXTREMES FOR CURRENT YEAR.--Peak discharge 647 cubic feet per second May 26, gage height 5.18 feet; minimum daily discharge 12 cubic feet per second on April 24.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY    | JUN    | JUL   | AUG   | SEP    | OCT    | NOV   | DEC   |
|-----------|-------|--------|-------|-------|--------|--------|-------|-------|--------|--------|-------|-------|
| 1         | 25    | 20E    | 22E   | 22    | 369    | 262    | 204   | 110   | 284    | 78     | 46    | 32    |
| 2         | 25    | 22E    | 21    | 20    | 326    | 246    | 152   | 99    | 272    | 75     | 45    | 38    |
| 3         | 27    | 23E    | 21    | 18    | 280    | 237    | 122   | 99    | 285    | 75     | 46    | 31    |
| 4         | 25    | 24E    | 23    | 18    | 246    | 239    | 93    | 98    | 288    | 73     | 45    | 31    |
| 5         | 24E   | 26E    | 20    | 18    | 221    | 231    | 79    | 92    | 247    | 70     | 44    | 33    |
| 6         | 25E   | 25E    | 22    | 15    | 225    | 218    | 66    | 85    | 240    | 68     | 46    | 32    |
| 7         | 25E   | 25E    | 22    | 14    | 225    | 216    | 70    | 87    | 257    | 67     | 42    | 29    |
| 8         | 26E   | 24E    | 24    | 13    | 188    | 216    | 71    | 89    | 257    | 64     | 42    | 31    |
| 9         | 27    | 24E    | 24    | 13    | 112    | 229    | 68    | 86    | 242    | 62     | 43    | 33    |
| 10        | 29    | 24E    | 23    | 13    | 102    | 227    | 71    | 93    | 235    | 63     | 41    | 32    |
| 11        | 27    | 24E    | 23    | 14    | 140    | 266    | 67    | 87    | 223    | 61     | 39    | 31    |
| 12        | 29    | 23E    | 22    | 16    | 149    | 228    | 66    | 87    | 220    | 58     | 39    | 29    |
| 13        | 28    | 23E    | 21    | 17    | 142    | 236    | 73    | 82    | 228    | 57     | 39    | 29    |
| 14        | 29    | 23E    | 23    | 18    | 143    | 324    | 91    | 83    | 249    | 55     | 38    | 28    |
| 15        | 28    | 23     | 22    | 16    | 129    | 327    | 95    | 106   | 261    | 53     | 39    | 26E   |
| 16        | 29    | 26     | 20    | 15    | 116    | 319    | 95    | 95    | 266    | 53     | 40    | 22E   |
| 17        | 25E   | 25     | 21    | 15    | 112    | 384    | 97    | 96    | 291    | 52     | 36    | 25E   |
| 18        | 26E   | 25     | 21    | 14    | 114    | 332    | 88    | 97    | 310    | 51     | 36E   | 26E   |
| 19        | 26E   | 24     | 20    | 14    | 127    | 315    | 84    | 97    | 399    | 52     | 35E   | 28E   |
| 20        | 26E   | 23     | 20    | 14    | 159    | 268    | 78    | 97    | 408    | 51     | 36E   | 28E   |
| 21        | 25E   | 23     | 21    | 14    | 185    | 190    | 77    | 102   | 346    | 48     | 36    | 28E   |
| 22        | 26E   | 23     | 21    | 14    | 239    | 230    | 76    | 103   | 299    | 47     | 36    | 26E   |
| 23        | 26E   | 22     | 21    | 13    | 253    | 281    | 75    | 162   | 218    | 47     | 36    | 26E   |
| 24        | 26E   | 23     | 20E   | 12    | 307    | 300    | 82    | 148   | 153    | 47     | 35    | 27E   |
| 25        | 26E   | 23     | 20E   | 13    | 305    | 264    | 91    | 149   | 129    | 47     | 35    | 27E   |
| 26        | 26E   | 20     | 20E   | 13    | 405    | 207    | 81    | 160   | 108    | 50     | 35    | 27E   |
| 27        | 25E   | 20     | 20E   | 13    | 536    | 164    | 80    | 170   | 97     | 49     | 33    | 27E   |
| 28        | 25E   | 19E    | 21E   | 50    | 490    | 106    | 85    | 184   | 90     | 48     | 34    | 28E   |
| 29        | 24E   | 19E    | 21E   | 305   | 400    | 157    | 96    | 207   | 86     | 50     | 35    | 28E   |
| 30        | 23E   | -----  | 22E   | 339   | 358    | 224    | 92    | 261   | 81     | 49     | 33    | 26E   |
| 31        | 20E   | -----  | 24E   | ----- | 351    | -----  | 101   | 286   | -----  | 47     | ----- | 24E   |
| TOTAL     | 803   | 668    | 666   | 1,103 | 7,454  | 7,443  | 2,768 | 3,797 | 7,069  | 1,767  | 1,165 | 888   |
| MEAN      | 25.9  | 23.0   | 21.5  | 36.8  | 240    | 248    | 89.3  | 122   | 236    | 57.0   | 38.8  | 28.6  |
| MAX       | 29    | 26     | 24    | 339   | 536    | 384    | 204   | 286   | 408    | 78     | 46    | 38    |
| MIN       | 20    | 19     | 20    | 12    | 102    | 106    | 66    | 82    | 81     | 47     | 33    | 22    |
| AC-FT     | 1,590 | 1,320  | 1,320 | 2,190 | 14,790 | 14,760 | 5,490 | 7,530 | 14,020 | 3,500  | 2,310 | 1,760 |
| YEAR 1996 | TOTAL | 35,591 | MEAN  | 97.2  | MAX    | 536    | MIN   | 12    | AC-FT  | 70,590 |       |       |



## NORTH PLATTE RIVER BASIN

## SHEEP CREEK near Morrill, 06678000 - 1996

LOCATION.--NW1/4SW1/4 Sec. 16-23-57 W., Scotts Bluff County, Lat. 41° 57' 50", Long. 103° 56' 20", on right 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. Estimated records January 18, April 10-13, 25-May 15. Records good, except estimated records fair.

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 133 cubic feet per second September 23, gage height 2.78 feet; minimum daily discharge estimated at 6.2 cubic feet per second May 9.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB      | MAR   | APR     | MAY   | JUN     | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|----------|-------|---------|-------|---------|-------|-------|-------|--------|-------|-------|
| 1         | 74    | 65       | 60    | 61      | 7.0E  | 63      | 8.4   | 11    | 8.7   | 106    | 93    | 84    |
| 2         | 73    | 64       | 60    | 61      | 6.4E  | 60      | 8.6   | 11    | 8.5   | 103    | 88    | 85    |
| 3         | 75    | 65       | 61    | 61      | 6.4E  | 62      | 8.1   | 12    | 8.5   | 106    | 92    | 84    |
| 4         | 75    | 64       | 61    | 61      | 6.6E  | 62      | 8.3   | 12    | 8.5   | 109    | 77    | 84    |
| 5         | 74    | 65       | 60    | 61      | 6.6E  | 66      | 8.3   | 11    | 8.8   | 107    | 79    | 84    |
| 6         | 74    | 65       | 60    | 61      | 6.8E  | 67      | 8.0   | 11    | 8.6   | 106    | 83    | 83    |
| 7         | 74    | 65       | 60    | 60      | 6.6E  | 62      | 8.0   | 10    | 8.5   | 105    | 82    | 82    |
| 8         | 74    | 65       | 61    | 61      | 6.4E  | 64      | 8.2   | 9.9   | 8.7   | 105    | 82    | 83    |
| 9         | 73    | 64       | 62    | 61      | 6.2E  | 63      | 8.2   | 11    | 9.0   | 104    | 82    | 82    |
| 10        | 73    | 63       | 64    | 60      | 6.4E  | 60      | 8.1   | 11    | 8.7   | 103    | 81    | 82    |
| 11        | 73    | 63       | 66    | 60      | 6.6E  | 63      | 8.5   | 11    | 8.7   | 103    | 80    | 81    |
| 12        | 72    | 63       | 66    | 60      | 6.6E  | 65      | 8.4   | 12    | 8.6   | 101    | 80    | 81    |
| 13        | 71    | 63       | 66    | 60      | 6.6E  | 50      | 8.4   | 12    | 8.3   | 102    | 80    | 81    |
| 14        | 71    | 63       | 66    | 60      | 6.6E  | 52      | 8.4   | 11    | 8.5   | 101    | 80    | 81    |
| 15        | 70    | 63       | 66    | 57      | 6.6E  | 54      | 8.3   | 11    | 8.5   | 101    | 81    | 80    |
| 16        | 70    | 63       | 66    | 56      | 7.0   | 54      | 8.4   | 11    | 8.5   | 101    | 83    | 81    |
| 17        | 70    | 63       | 67    | 53      | 7.2   | 54      | 8.3   | 11    | 8.6   | 103    | 81    | 80    |
| 18        | 70E   | 63       | 67    | 51      | 7.3   | 53      | 8.3   | 11    | 8.5   | 101    | 82    | 80    |
| 19        | 70    | 63       | 66    | 50      | 7.2   | 52      | 8.5   | 9.5   | 8.2   | 102    | 85    | 80    |
| 20        | 69    | 63       | 65    | 49      | 7.3   | 52      | 8.6   | 9.0   | 7.8   | 101    | 85    | 81    |
| 21        | 69    | 64       | 65    | 49      | 7.8   | 52      | 10    | 8.6   | 7.8   | 99     | 82    | 80    |
| 22        | 68    | 64       | 65    | 48      | 8.5   | 28      | 13    | 8.3   | 8.2   | 99     | 83    | 80    |
| 23        | 68    | 63       | 65    | 48      | 9.1   | 8.6     | 13    | 8.6   | 68    | 98     | 82    | 80    |
| 24        | 67    | 63       | 65    | 46      | 9.5   | 9.2     | 13    | 8.6   | 102   | 98     | 82    | 80    |
| 25        | 67    | 62       | 64    | 26      | 9.8   | 9.4     | 12    | 8.6   | 103   | 96     | 82    | 80    |
| 26        | 67    | 61       | 65    | 6.6E    | 11    | 9.0     | 12    | 8.6   | 104   | 97     | 83    | 80    |
| 27        | 67    | 61       | 65    | 6.6E    | 11    | 9.1     | 12    | 8.6   | 107   | 93     | 83    | 80    |
| 28        | 67    | 59       | 63    | 7.4E    | 51    | 9.2     | 12    | 8.7   | 106   | 93     | 84    | 81    |
| 29        | 66    | 60       | 63    | 25      | 75    | 8.7     | 12    | 8.7   | 107   | 96     | 85    | 80    |
| 30        | 66    | -----    | 62    | 7.6E    | 71    | 8.8     | 11    | 8.6   | 106   | 100    | 84    | 79    |
| 31        | 66    | -----    | 62    | -----   | 65    | -----   | 11    | 8.7   | ----- | 91     | ----- | 79    |
| TOTAL     | 2,183 | 1,832    | 1,974 | 1,435.2 | 463.1 | 1,330.0 | 297.3 | 313.0 | 989.7 | 3,130  | 2,486 | 2,518 |
| MEAN      | 70.4  | 63.2     | 63.7  | 47.8    | 14.9  | 44.3    | 9.59  | 10.1  | 33.0  | 101    | 82.9  | 81.2  |
| MAX       | 75    | 65       | 67    | 61      | 75    | 67      | 13    | 12    | 107   | 109    | 93    | 85    |
| MIN       | 66    | 59       | 60    | 6.6     | 6.2   | 8.6     | 8.0   | 8.3   | 7.8   | 91     | 77    | 79    |
| AC-FT     | 4,330 | 3,630    | 3,920 | 2,850   | 919   | 2,640   | 590   | 621   | 1,960 | 6,210  | 4,930 | 4,990 |
| YEAR 1996 | TOTAL | 18,951.3 | MEAN  | 51.8    | MAX   | 109     | MIN   | 6.2   | AC-FT | 37,590 |       |       |

# NORTH PLATTE RIVER BASIN

**ENTERPRISE CANAL from North Platte River, 00040000 - 1996**

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1916, 1919 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-----|-----|
| 1         |     |       |     | 0     | 73    | 67     | 81    | 107   | 85    |     |     |     |
| 2         |     |       |     | 0     | 73    | 67     | 75    | 92    | 81    |     |     |     |
| 3         |     |       |     | 0     | 74    | 67     | 71    | 79    | 81    |     |     |     |
| 4         |     |       |     | 0     | 76    | 67     | 84    | 80    | 80    |     |     |     |
| 5         |     |       |     | 0     | 76    | 67     | 90    | 81    | 78    |     |     |     |
| 6         |     |       |     | 0     | 69    | 65     | 90    | 73    | 81    |     |     |     |
| 7         |     |       |     | 0     | 58    | 63     | 83    | 69    | 83    |     |     |     |
| 8         |     |       |     | 0     | 57    | 62     | 86    | 68    | 82    |     |     |     |
| 9         |     |       |     | 0     | 57    | 62     | 82    | 71    | 80    |     |     |     |
| 10        |     |       |     | 0     | 54    | 62     | 94    | 87    | 79    |     |     |     |
| 11        |     |       |     | 0     | 54    | 62     | 94    | 88    | 72    |     |     |     |
| 12        |     |       |     | 0     | 54    | 59     | 93    | 86    | 63    |     |     |     |
| 13        |     |       |     | 0     | 53    | 67     | 106   | 88    | 64    |     |     |     |
| 14        |     |       |     | 0     | 55    | 72     | 105   | 90    | 66    |     |     |     |
| 15        |     |       |     | 0     | 63    | 72     | 100   | 93    | 68    |     |     |     |
| 16        |     |       |     | 0     | 63    | 72     | 86    | 97    | 68    |     |     |     |
| 17        |     |       |     | 0     | 63    | 72     | 84    | 92    | 66    |     |     |     |
| 18        |     |       |     | 0     | 63    | 72     | 70    | 95    | 67    |     |     |     |
| 19        |     |       |     | 0     | 62    | 72     | 69    | 98    | 60    |     |     |     |
| 20        |     |       |     | 0     | 62    | 67     | 78    | 100   | 53    |     |     |     |
| 21        |     |       |     | 0     | 62    | 72     | 77    | 101   | 49    |     |     |     |
| 22        |     |       |     | 0     | 62    | 83     | 72    | 99    | 47    |     |     |     |
| 23        |     |       |     | 0     | 62    | 84     | 81    | 113   | 46    |     |     |     |
| 24        |     |       |     | 0     | 61    | 80     | 87    | 107   | 48    |     |     |     |
| 25        |     |       |     | 0     | 53    | 73     | 77    | 103   | 49    |     |     |     |
| 26        |     |       |     | 0     | 52    | 77     | 72    | 103   | 50    |     |     |     |
| 27        |     |       |     | 0     | 49    | 81     | 77    | 102   | 29    |     |     |     |
| 28        |     |       |     | 0     | 43    | 81     | 75    | 99    | 0     |     |     |     |
| 29        |     |       |     | 45    | 45    | 75     | 87    | 88    | 0     |     |     |     |
| 30        |     | ----- |     | 74    | 61    | 77     | 84    | 81    | 0     |     |     |     |
| 31        |     | ----- |     | ----- | 66    | -----  | 95    | 86    | ----- |     |     |     |
| TOTAL     |     |       |     | 119   | 1,875 | 2,119  | 2,605 | 2,816 | 1,775 |     |     |     |
| MEAN      |     |       |     | 3.97  | 60.5  | 70.6   | 84.0  | 90.8  | 59.2  |     |     |     |
| MAX       |     |       |     | 74    | 76    | 84     | 106   | 113   | 85    |     |     |     |
| MIN       |     |       |     | 0     | 43    | 59     | 69    | 68    | 0     |     |     |     |
| AC-FT     |     |       |     | 236   | 3,720 | 4,200  | 5,170 | 5,590 | 3,520 |     |     |     |
| YEAR 1996 | MAX | 113   | MIN | 0     | AC-FT | 22,430 |       |       |       |     |     |     |

## NORTH PLATTE RIVER BASIN

## ENTERPRISE CANAL from Morrill Drain, 00042000 - 1996

LOCATION.--NE1/4SE1/4 Sec. 14-23-57 W. near Morrill

GAGE.--Staff gage

PERIOD OF RECORD.--1921 - 1923, 1931 - 1946, 1948 - present

REMARKS.--\* indicates observation or measurement.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL  | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 1.0   | 1.0  | 4.0*  | 4.0   |     |       |     |
| 2         |     |       |     |       | 0     | 1.0   | 1.0  | 4.0   | 4.0   |     |       |     |
| 3         |     |       |     |       | 0     | 1.0   | 1.0* | 4.0   | 4.0   |     |       |     |
| 4         |     |       |     |       | 0     | 1.0   | 1.0  | 4.0   | 3.0   |     |       |     |
| 5         |     |       |     |       | 0     | 1.0   | 1.0  | 4.0   | 3.0   |     |       |     |
| 6         |     |       |     |       | 0     | 1.0*  | 1.0  | 4.0   | 3.0   |     |       |     |
| 7         |     |       |     |       | 0     | 1.0   | 1.0  | 4.0   | 3.0   |     |       |     |
| 8         |     |       |     |       | 0     | 1.0   | 1.0  | 4.0   | 3.0   |     |       |     |
| 9         |     |       |     |       | 0     | 1.0   | 1.0  | 4.0   | 2.0   |     |       |     |
| 10        |     |       |     |       | 0     | 1.0   | 1.0  | 3.0   | 2.0   |     |       |     |
| 11        |     |       |     |       | 0     | 1.0   | 2.0  | 3.0   | 2.0   |     |       |     |
| 12        |     |       |     |       | 0     | 1.0   | 2.0  | 3.0   | 2.0*  |     |       |     |
| 13        |     |       |     |       | 0     | 1.0   | 2.0  | 3.0   | 2.0   |     |       |     |
| 14        |     |       |     |       | 0     | 1.0   | 2.0  | 3.0   | 2.0   |     |       |     |
| 15        |     |       |     |       | 0     | 1.0   | 3.0  | 3.0*  | 2.0   |     |       |     |
| 16        |     |       |     |       | 1.0   | 0     | 3.0  | 3.0   | 2.0   |     |       |     |
| 17        |     |       |     |       | 1.0   | 0     | 3.0  | 3.0   | 2.0   |     |       |     |
| 18        |     |       |     |       | 1.0   | 0     | 3.0* | 3.0   | 2.0   |     |       |     |
| 19        |     |       |     |       | 1.0   | 0     | 3.0  | 3.0   | 2.0   |     |       |     |
| 20        |     |       |     |       | 1.0   | 0     | 3.0  | 3.0   | 2.0   |     |       |     |
| 21        |     |       |     |       | 1.0   | 0     | 3.0  | 3.0   | 2.0   |     |       |     |
| 22        |     |       |     |       | 1.0*  | 0     | 3.0  | 3.0   | 2.0   |     |       |     |
| 23        |     |       |     |       | 1.0   | 0     | 3.0  | 3.0   | 2.0   |     |       |     |
| 24        |     |       |     |       | 1.0   | 0     | 3.0  | 4.0   | 2.0   |     |       |     |
| 25        |     |       |     |       | 1.0   | 0     | 3.0  | 4.0   | 2.0   |     |       |     |
| 26        |     |       |     |       | 1.0   | 0     | 3.0  | 4.0   | 2.0   |     |       |     |
| 27        |     |       |     |       | 1.0   | 0     | 3.0  | 4.0   | 2.0*  |     |       |     |
| 28        |     |       |     |       | 1.0   | 0     | 4.0  | 4.0   | 0     |     |       |     |
| 29        |     |       |     |       | 1.0   | 1.0   | 4.0  | 4.0*  | 0     |     |       |     |
| 30        |     | ----- |     |       | 1.0   | 1.0   | 4.0  | 4.0   |       |     |       |     |
| 31        |     | ----- |     | ----- | 1.0   | ----- | 4.0  | 4.0   | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 16.0  | 17.0  | 73.0 | 110.0 | 65.0  |     |       |     |
| MEAN      |     |       |     |       | .52   | .57   | 2.35 | 3.55  | 2.24  |     |       |     |
| MAX       |     |       |     |       | 1.0   | 1.0   | 4.0  | 4.0   | 4.0   |     |       |     |
| MIN       |     |       |     |       | 0     | 0     | 1.0  | 3.0   | 0     |     |       |     |
| AC-FT     |     |       |     |       | 32    | 34    | 145  | 218   | 129   |     |       |     |
| YEAR 1996 | MAX | 4.0   | MIN | 0     | AC-FT | 557   |      |       |       |     |       |     |

# NORTH PLATTE RIVER BASIN

**ENTERPRISE CANAL from Dry Spotted Tail Creek, 00041000 - 1996**

LOCATION.--NW1/4SW1/4 Sec. 21-23-56 W. near Mitchell

GAGE.--Staff gage

PERIOD OF RECORD.--1960 - 1969, 1985 - present

REMARKS.--\* indicates observation or measurement

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 0     | 1.0   | 5.0   | 3.0   |     |       |     |
| 2         |     |       |     |       | 0     | 0     | 2.0   | 5.0   | 2.0   |     |       |     |
| 3         |     |       |     |       | 0     | 0     | 4.0   | 5.0   | 1.0   |     |       |     |
| 4         |     |       |     |       | 0     | 0     | 4.0   | 5.0   | 0     |     |       |     |
| 5         |     |       |     |       | 0     | 0     | 4.0   | 5.0   | 0     |     |       |     |
| 6         |     |       |     |       | 0     | 0     | 5.0   | 5.0   | 0     |     |       |     |
| 7         |     |       |     |       | 0     | 0     | 5.0   | 5.0*  | 0     |     |       |     |
| 8         |     |       |     |       | 0     | 0     | 6.0   | 5.0   | 0     |     |       |     |
| 9         |     |       |     |       | 0     | 0     | 6.0   | 5.0   | 0     |     |       |     |
| 10        |     |       |     |       | 0     | 0     | 6.0   | 5.0   | 0     |     |       |     |
| 11        |     |       |     |       | 0     | 0     | 7.0*  | 5.0   | 0     |     |       |     |
| 12        |     |       |     |       | 0     | 0     | 7.0   | 5.0   | 0     |     |       |     |
| 13        |     |       |     |       | 0     | 0     | 7.0   | 5.0   | 0     |     |       |     |
| 14        |     |       |     |       | 0     | 0     | 7.0   | 6.0   | 0     |     |       |     |
| 15        |     |       |     |       | 0     | 0     | 6.0   | 6.0   | 0     |     |       |     |
| 16        |     |       |     |       | 0     | 0     | 6.0   | 6.0   | 0     |     |       |     |
| 17        |     |       |     |       | 0     | 0     | 6.0   | 6.0   | 0     |     |       |     |
| 18        |     |       |     |       | 0     | 0     | 6.0   | 6.0   | 0     |     |       |     |
| 19        |     |       |     |       | 0     | 0     | 6.0   | 7.0   | 0     |     |       |     |
| 20        |     |       |     |       | 0     | 0     | 6.0   | 7.0   | 0     |     |       |     |
| 21        |     |       |     |       | 0     | 0     | 5.0   | 7.0   | 0     |     |       |     |
| 22        |     |       |     |       | 0     | 0     | 5.0   | 7.0*  | 0     |     |       |     |
| 23        |     |       |     |       | 0     | 0     | 5.0   | 7.0   | 0     |     |       |     |
| 24        |     |       |     |       | 0     | 0     | 5.0   | 7.0   | 0     |     |       |     |
| 25        |     |       |     |       | 0     | 0     | 5.0*  | 7.0   | 0     |     |       |     |
| 26        |     |       |     |       | 0     | 0*    | 5.0   | 7.0   | 0     |     |       |     |
| 27        |     |       |     |       | 0     | 0*    | 5.0   | 6.0   | 0     |     |       |     |
| 28        |     |       |     |       | 0     | 0*    | 5.0   | 6.0   | 0     |     |       |     |
| 29        |     |       |     |       | 0     | 0*    | 5.0   | 6.0   | 0     |     |       |     |
| 30        |     | ----- |     |       | 0     | 0*    | 5.0   | 5.0   | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 0     | ----- | 5.0   | 5.0   | ----- |     | ----- |     |
| TOTPL     |     |       |     |       | 0     | 0     | 162.0 | 179.0 | 6.0   |     |       |     |
| MEAN      |     |       |     |       | 0     | 0     | 5.23  | 5.77  | .20   |     |       |     |
| MAX       |     |       |     |       | 0     | 0     | 7.0   | 7.0   | 3.0   |     |       |     |
| MIN       |     |       |     |       | 0     | 0     | 1.0   | 5.0   | 0     |     |       |     |
| AC-FT     |     |       |     |       | 0     | 0     | 321   | 355   | 12    |     |       |     |
| YEAR 1996 | MAX | 7.0   | MIN | 0     | AC-FT | 688   |       |       |       |     |       |     |

## NORTH PLATTE RIVER BASIN

## ENTERPRISE CANAL from Wet Spottedtail Creek, 00045000 - 1996

LOCATION.--Sec. 35-23-56 W. Scottsbluff County

GAGE.--Staff gage

PERIOD OF RECORD.--1995 - present

REMARKS.--\* indicates observation or measurement.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG  | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 0     | 3.0   | 3.0* | 0     |     |       |     |
| 2         |     |       |     |       | 0     | 0     | 4.0   | 3.0  | 0     |     |       |     |
| 3         |     |       |     |       | 0     | 0     | 5.0*  | 3.0  | 0     |     |       |     |
| 4         |     |       |     |       | 0     | 0     | 5.0   | 3.0  | 0     |     |       |     |
| 5         |     |       |     |       | 0     | 0     | 5.0   | 2.0  | 0     |     |       |     |
| 6         |     |       |     |       | 0     | 0     | 5.0   | 2.0  | 0     |     |       |     |
| 7         |     |       |     |       | 0     | 0     | 5.0   | 2.0* | 0     |     |       |     |
| 8         |     |       |     |       | 0     | 0     | 6.0   | 2.0  | 0     |     |       |     |
| 9         |     |       |     |       | 0     | 0     | 6.0   | 2.0  | 0     |     |       |     |
| 10        |     |       |     |       | 0     | 0     | 6.0   | 2.0  | 0     |     |       |     |
| 11        |     |       |     |       | 0     | 0     | 6.0*  | 2.0  | 0     |     |       |     |
| 12        |     |       |     |       | 0     | 0     | 6.0   | 3.0  | 0     |     |       |     |
| 13        |     |       |     |       | 0     | 0     | 6.0   | 3.0  | 0     |     |       |     |
| 14        |     |       |     |       | 0     | 0     | 6.0   | 3.0  | 0     |     |       |     |
| 15        |     |       |     |       | 0     | 0     | 6.0   | 3.0* | 0     |     |       |     |
| 16        |     |       |     |       | 0     | 0     | 7.0   | 3.0  | 0     |     |       |     |
| 17        |     |       |     |       | 0     | 0     | 7.0   | 3.0  | 0     |     |       |     |
| 18        |     |       |     |       | 0     | 1.0   | 7.0*  | 3.0  | 0     |     |       |     |
| 19        |     |       |     |       | 0     | 1.0   | 7.0   | 4.0  | 0     |     |       |     |
| 20        |     |       |     |       | 0     | 1.0   | 7.0   | 4.0  | 0     |     |       |     |
| 21        |     |       |     |       | 0     | 1.0   | 6.0   | 4.0  | 0     |     |       |     |
| 22        |     |       |     |       | 0     | 1.0   | 6.0   | 4.0* | 0     |     |       |     |
| 23        |     |       |     |       | 0     | 1.0   | 6.0   | 4.0  | 0     |     |       |     |
| 24        |     |       |     |       | 0     | 1.0   | 5.0   | 4.0  | 0     |     |       |     |
| 25        |     |       |     |       | 0     | 1.0   | 5.0   | 3.0  | 0     |     |       |     |
| 26        |     |       |     |       | 0     | 1.0   | 5.0   | 3.0  | 0     |     |       |     |
| 27        |     |       |     |       | 0     | 2.0   | 4.0   | 2.0  | 0     |     |       |     |
| 28        |     |       |     |       | 0     | 2.0   | 4.0   | 1.0  | 0     |     |       |     |
| 29        |     |       |     |       | 0     | 2.0   | 4.0   | 0*   | 0     |     |       |     |
| 30        |     | ----- |     |       | 0     | 2.0   | 3.0   | 0*   | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 0     | ----- | 3.0   | 0*   | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 0     | 17.0  | 166.0 | 80.0 | 0     |     |       |     |
| MEAN      |     |       |     |       | 0     | .57   | 5.35  | 2.58 | 0     |     |       |     |
| MAX       |     |       |     |       | 0     | 2.0   | 7.0   | 4.0  | 0     |     |       |     |
| MIN       |     |       |     |       | 0     | 0     | 3.0   | 0    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 0     | 34    | 329   | 159  | 0     |     |       |     |
| YEAR 1996 | MAX | 7.0   | MIN | 0     | AC-FT | 522   |       |      |       |     |       |     |

# NORTH PLATTE RIVER BASIN

**ENTERPRISE CANAL from Tub Springs, 00043000 - 1996**

LOCATION.--Sec. 33-23-55 W. Scottsbluff County

GAGE.--Staff gage

PERIOD OF RECORD.--1920 - 1927, 1929 - 1983, 1992 - present

REMARKS.--v indicates observation or measurement.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL  | AUG  | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|------|------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 0     | 0    | 2.0  | 0     |     |       |     |
| 2         |     |       |     |       | 0     | 0     | 0    | 2.0  | 0     |     |       |     |
| 3         |     |       |     |       | 0     | 0     | 0    | 2.0  | 0     |     |       |     |
| 4         |     |       |     |       | 0     | 0     | 0    | 2.0  | 0     |     |       |     |
| 5         |     |       |     |       | 0     | 0     | 0    | 2.0  | 0     |     |       |     |
| 6         |     |       |     |       | 0     | 0     | 0    | 2.0  | 0     |     |       |     |
| 7         |     |       |     |       | 0     | 0     | 0    | 2.0  | 0     |     |       |     |
| 8         |     |       |     |       | 0     | 0     | 0    | 2.0  | 0     |     |       |     |
| 9         |     |       |     |       | 0     | 0     | 0    | 2.0  | 0     |     |       |     |
| 10        |     |       |     |       | 0     | 0     | 0    | 2.0  | 0     |     |       |     |
| 11        |     |       |     |       | 0     | 0     | 0    | 1.0  | 0     |     |       |     |
| 12        |     |       |     |       | 0     | 0     | 1.0  | 1.0  | 0     |     |       |     |
| 13        |     |       |     |       | 0     | 0     | 1.0  | 1.0  | 0     |     |       |     |
| 14        |     |       |     |       | 0     | 0     | 1.0  | 1.0  | 0     |     |       |     |
| 15        |     |       |     |       | 0     | 0     | 1.0  | 1.0  | 0     |     |       |     |
| 16        |     |       |     |       | 0     | 0     | 1.0  | 1.0  | 0     |     |       |     |
| 17        |     |       |     |       | 0     | 0     | 2.0  | 1.0  | 0     |     |       |     |
| 18        |     |       |     |       | 0     | 0     | 2.0  | 1.0  | 0     |     |       |     |
| 19        |     |       |     |       | 0     | 0     | 2.0  | 0    | 0     |     |       |     |
| 20        |     |       |     |       | 0     | 0     | 2.0  | 0    | 0     |     |       |     |
| 21        |     |       |     |       | 0     | 0     | 3.0  | 0    | 0     |     |       |     |
| 22        |     |       |     |       | 0     | 0     | 3.0  | 0    | 0     |     |       |     |
| 23        |     |       |     |       | 0     | 0     | 4.0  | 0    | 0     |     |       |     |
| 24        |     |       |     |       | 0     | 0     | 4.0  | 0    | 0     |     |       |     |
| 25        |     |       |     |       | 0     | 0     | 4.0* | 0    | 0     |     |       |     |
| 26        |     |       |     |       | 0     | 0     | 4.0  | 0    | 0     |     |       |     |
| 27        |     |       |     |       | 0     | 0     | 4.0  | 0    | 0     |     |       |     |
| 28        |     |       |     |       | 0     | 0     | 4.0  | 0    | 0     |     |       |     |
| 29        |     |       |     |       | 0     | 0     | 3.0  | 0    | 0     |     |       |     |
| 30        |     |       |     |       | 0     | 0     | 3.0  | 0    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 0     | ----- | 3.0  | 0    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 0     | 0     | 52.0 | 28.0 | 0     |     |       |     |
| MEAN      |     |       |     |       | 0     | 0     | 1.68 | .90  | 0     |     |       |     |
| MAX       |     |       |     |       | 0     | 0     | 4.0  | 2.0  | 0     |     |       |     |
| MIN       |     |       |     |       | 0     | 0     | 0    | 0    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 0     | 0     | 103  | 56   | 0     |     |       |     |
| YEAR 1996 | MAX | 4.0   | MIN | 0     | AC-FT | 159   |      |      |       |     |       |     |

## NORTH PLATTE RIVER BASIN

## ENTERPRISE CANAL from Winters Creek, 00044000 - 1996

LOCATION.--NW1/4NE1/4 Sec. 17-22-54 W. near Scottsbluff

GAGE.--Staff gage

PERIOD OF RECORD.--1937 - 1943, 1969 - present

REMARKS.--\* indicates observation or measurement.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL  | AUG  | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|------|------|-------|-----|-------|-----|
| 1         |     |       |     |       | 1.0   | 1.0   | 1.0  | 2.0  | 2.0   |     |       |     |
| 2         |     |       |     |       | 1.0   | 1.0   | 1.0  | 2.0  | 2.0   |     |       |     |
| 3         |     |       |     |       | 1.0   | 1.0   | 1.0  | 2.0  | 2.0   |     |       |     |
| 4         |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 2.0   |     |       |     |
| 5         |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 2.0*  |     |       |     |
| 6         |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 2.0   |     |       |     |
| 7         |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 2.0   |     |       |     |
| 8         |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 2.0   |     |       |     |
| 9         |     |       |     |       | 1.0*  | 1.0   | 2.0  | 2.0  | 2.0   |     |       |     |
| 10        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 2.0   |     |       |     |
| 11        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 2.0   |     |       |     |
| 12        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 2.0   |     |       |     |
| 13        |     |       |     |       | 1.0   | 1.0*  | 2.0  | 2.0  | 2.0   |     |       |     |
| 14        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 1.0   |     |       |     |
| 15        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 1.0   |     |       |     |
| 16        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 1.0   |     |       |     |
| 17        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 1.0   |     |       |     |
| 18        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 1.0   |     |       |     |
| 19        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 1.0   |     |       |     |
| 20        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 1.0   |     |       |     |
| 21        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 0     |     |       |     |
| 22        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 0     |     |       |     |
| 23        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 0     |     |       |     |
| 24        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 0     |     |       |     |
| 25        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 0     |     |       |     |
| 26        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 0     |     |       |     |
| 27        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 0     |     |       |     |
| 28        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 0     |     |       |     |
| 29        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 0     |     |       |     |
| 30        |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 1.0   | ----- | 2.0  | 2.0  | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 31.0  | 30.0  | 59.0 | 62.0 | 33.0  |     |       |     |
| MEAN      |     |       |     |       | 1.00  | 1.00  | 1.90 | 2.00 | 1.10  |     |       |     |
| MAX       |     |       |     |       | 1.0   | 1.0   | 2.0  | 2.0  | 2.0   |     |       |     |
| MIN       |     |       |     |       | 1.0   | 1.0   | 1.0  | 2.0  | 0     |     |       |     |
| AC-FT     |     |       |     |       | 61    | 60    | 117  | 123  | 65    |     |       |     |
| YEAR 1996 | MAX | 2.0   | MIN | 0     | AC-FT | 426   |      |      |       |     |       |     |

# NORTH PLATTE RIVER BASIN

**DRY SPOTTED TAIL CREEK at Mitchell, 06679000 - 1996**

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.

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 108 cubic feet per second July 13, gage height 1.47 feet and September 27, gage height 1.50 feet; minimum daily discharge, 9.5 cubic feet per second April 22.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB      | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 23    | 24       | 24    | 21    | 15    | 28    | 46    | 49    | 47    | 48     | 28    | 23    |
| 2         | 22    | 24       | 25    | 17    | 16    | 28    | 42    | 47    | 52    | 45     | 28    | 23    |
| 3         | 24    | 23       | 23    | 17    | 18    | 28    | 42    | 46    | 51    | 45     | 28    | 22    |
| 4         | 23    | 25       | 21    | 18    | 30    | 27    | 44    | 51    | 50    | 42     | 28    | 23    |
| 5         | 21    | 25       | 19    | 17    | 31    | 25    | 43    | 46    | 48    | 36     | 28    | 23    |
| 6         | 21    | 26       | 19    | 16    | 33    | 27    | 45    | 41    | 50    | 34     | 27    | 22    |
| 7         | 22    | 28       | 19    | 17    | 26    | 27    | 45    | 39    | 50    | 34     | 27    | 22    |
| 8         | 22    | 29       | 19    | 16    | 30    | 26    | 45    | 40    | 45    | 33     | 26    | 22    |
| 9         | 23    | 25       | 20    | 12    | 30    | 26    | 51    | 39    | 45    | 32     | 27    | 22    |
| 10        | 21    | 24       | 19    | 12    | 31    | 26    | 56    | 40    | 43    | 32     | 26    | 22    |
| 11        | 21    | 25       | 20    | 12    | 27    | 25    | 48    | 38    | 45    | 32     | 26    | 21    |
| 12        | 22    | 25       | 18    | 12    | 26    | 25    | 59    | 37    | 49    | 32     | 26    | 21    |
| 13        | 22    | 24       | 19    | 12    | 27    | 26    | 78    | 37    | 52    | 32     | 26    | 20    |
| 14        | 22    | 24       | 19    | 13    | 29    | 26    | 80    | 34    | 51    | 31     | 26    | 19    |
| 15        | 21    | 23       | 19    | 12    | 27    | 27    | 67    | 39    | 53    | 31     | 26    | 19    |
| 16        | 20    | 23       | 19    | 12    | 26    | 28    | 65    | 44    | 51    | 31     | 26    | 19    |
| 17        | 22    | 24       | 19    | 11    | 24    | 28    | 63    | 44    | 54    | 30     | 25    | 17    |
| 18        | 26    | 23       | 19    | 12    | 26    | 28    | 59    | 45    | 61    | 29     | 25    | 17    |
| 19        | 29    | 23       | 20    | 12    | 36    | 27    | 55    | 43    | 61    | 29     | 27    | 19    |
| 20        | 28    | 25       | 20    | 12    | 40    | 25    | 52    | 39    | 56    | 30     | 26    | 25    |
| 21        | 28    | 24       | 19    | 12    | 41    | 30    | 52    | 40    | 52    | 28     | 24    | 29    |
| 22        | 28    | 24       | 20    | 12    | 36    | 51    | 51    | 45    | 49    | 29     | 24    | 29    |
| 23        | 28    | 27       | 20    | 12    | 37    | 42    | 48    | 55    | 56    | 30     | 24    | 29    |
| 24        | 28    | 26       | 18    | 12    | 35    | 45    | 50    | 51    | 74    | 30     | 23    | 29    |
| 25        | 27    | 26       | 25    | 12    | 29    | 43    | 46    | 50    | 70    | 30     | 23    | 29    |
| 26        | 29    | 26       | 24    | 10    | 39    | 39    | 49    | 50    | 64    | 30     | 23    | 29    |
| 27        | 27    | 24       | 23    | 9.5   | 32    | 38    | 51    | 48    | 78    | 30     | 23    | 29    |
| 28        | 27    | 24       | 23    | 11    | 32    | 40    | 52    | 45    | 80    | 29     | 23    | 30    |
| 29        | 26    | 25       | 22    | 31    | 34    | 43    | 52    | 47    | 78    | 30     | 23    | 32    |
| 30        | 26    | -----    | 23    | 25    | 29    | 44    | 49    | 47    | 65    | 29     | 23    | 33    |
| 31        | 23    | -----    | 22    | ----- | 29    | ----- | 49    | 45    | ----- | 28     | ----- | 33    |
| TOTAL     | 752   | 718      | 639   | 429.5 | 921   | 948   | 1,634 | 1,361 | 1,680 | 1,011  | 765   | 752   |
| MEAN      | 24.3  | 24.8     | 20.6  | 14.3  | 29.7  | 31.6  | 52.7  | 43.9  | 56.0  | 32.6   | 25.5  | 24.3  |
| MAX       | 29    | 29       | 25    | 31    | 41    | 51    | 80    | 55    | 80    | 48     | 28    | 33    |
| MIN       | 20    | 23       | 18    | 9.5   | 15    | 25    | 42    | 34    | 43    | 28     | 23    | 17    |
| AC-FT     | 1,490 | 1,420    | 1,270 | 852   | 1,830 | 1,880 | 3,240 | 2,700 | 3,330 | 2,010  | 1,520 | 1,490 |
| YEAR 1996 | TOTAL | 11,610.5 | MEAN  | 31.7  | MAX   | 80    | MIN   | 9.5   | AC-FT | 23,030 |       |       |



## NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at Mitchell, 06679500 - 1996

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 State Highway 29, 0.5 mile south of Mitchell.

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

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

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

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

E indicates estimated daily discharge. Estimated records February 20-March 1. Records good except estimated records and records during high water period May 28 to June 20 fair.

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.--Estimated peak discharge 4,380 cubic feet per second June 17, from estimated gage height 6.30 feet; minimum daily discharge 237 cubic feet per second April 28.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR    | APR    | MAY    | JUN     | JUL    | AUG    | SEP    | OCT     | NOV    | DEC    |
|-----------|--------|---------|--------|--------|--------|---------|--------|--------|--------|---------|--------|--------|
| 1         | 521    | 372     | 470E   | 453    | 458    | 3,490   | 414    | 403    | 529    | 1,110   | 612    | 546    |
| 2         | 510    | 383     | 471    | 454    | 518    | 3,600   | 365    | 384    | 494    | 1,000   | 606    | 546    |
| 3         | 519    | 397     | 469    | 445    | 605    | 3,690   | 334    | 336    | 496    | 916     | 606    | 534    |
| 4         | 526    | 401     | 469    | 441    | 736    | 3,790   | 346    | 334    | 492    | 876     | 602    | 531    |
| 5         | 508    | 441     | 461    | 440    | 756    | 3,950   | 357    | 336    | 477    | 864     | 586    | 530    |
| 6         | 497    | 507     | 453    | 437    | 752    | 3,910   | 359    | 311    | 527    | 922     | 579    | 524    |
| 7         | 487    | 585     | 456    | 445    | 733    | 2,890   | 348    | 292    | 564    | 864     | 577    | 516    |
| 8         | 514    | 606     | 452    | 455    | 670    | 4,000   | 343    | 290    | 543    | 833     | 577    | 517    |
| 9         | 522    | 560     | 465    | 457    | 548    | 4,070   | 332    | 278    | 521    | 799     | 582    | 519    |
| 10        | 522    | 532     | 473    | 464    | 477    | 4,080   | 358    | 293    | 504    | 782     | 576    | 518    |
| 11        | 517    | 513     | 471    | 468    | 467    | 4,180   | 357    | 298    | 509    | 772     | 571    | 515    |
| 12        | 521    | 509     | 465    | 470    | 481    | 3,830   | 352    | 292    | 516    | 752     | 570    | 510    |
| 13        | 526    | 510     | 462    | 451    | 450    | 3,520   | 398    | 292    | 527    | 736     | 566    | 506    |
| 14        | 527    | 504     | 466    | 443    | 421    | 3,570   | 406    | 291    | 600    | 718     | 570    | 502    |
| 15        | 524    | 497     | 467    | 458    | 477    | 3,990   | 411    | 305    | 680    | 699     | 576    | 491    |
| 16        | 527    | 493     | 467    | 481    | 470    | 4,180   | 380    | 329    | 733    | 684     | 583    | 493    |
| 17        | 522    | 500     | 471    | 465    | 438    | 4,370   | 362    | 329    | 719    | 678     | 568    | 435    |
| 18        | 417    | 501     | 468    | 455    | 422    | 4,260   | 335    | 339    | 767    | 671     | 576    | 366    |
| 19        | 406    | 497     | 460    | 459    | 406    | 3,920   | 317    | 345    | 817    | 668     | 602    | 390    |
| 20        | 480    | 500E    | 460    | 468    | 429    | 3,160   | 317    | 341    | 826    | 665     | 602    | 442    |
| 21        | 520    | 500E    | 463    | 477    | 429    | 2,830   | 320    | 340    | 764    | 645     | 578    | 497    |
| 22        | 541    | 490E    | 464    | 484    | 430    | 2,640   | 321    | 338    | 757    | 636     | 576    | 517    |
| 23        | 500    | 490E    | 461    | 484    | 434    | 2,610   | 331    | 421    | 792    | 630     | 566    | 487    |
| 24        | 491    | 490E    | 451    | 468    | 563    | 2,360   | 353    | 445    | 835    | 620     | 554    | 455    |
| 25        | 481    | 480E    | 431    | 425    | 643    | 1,940   | 332    | 431    | 962    | 616     | 556    | 472    |
| 26        | 448    | 480E    | 443    | 276    | 840    | 1,630   | 317    | 429    | 938    | 618     | 556    | 461    |
| 27        | 432    | 480E    | 458    | 249    | 1,350  | 1,170   | 328    | 426    | 1,070  | 609     | 557    | 485    |
| 28        | 477    | 470E    | 461    | 237    | 1,550  | 716     | 323    | 401    | 1,160  | 601     | 556    | 507    |
| 29        | 470    | 470E    | 458    | 362    | 1,900  | 481     | 352    | 389    | 1,150  | 632     | 552    | 493    |
| 30        | 428    | -----   | 456    | 455    | 2,820  | 440     | 344    | 456    | 1,130  | 630     | 547    | 492    |
| 31        | 385    | -----   | 452    | -----  | 3,200  | -----   | 368    | 559    | -----  | 617     | -----  | 489    |
| TOTAL     | 15,266 | 14,158  | 14,294 | 13,016 | 24,873 | 94,267  | 10,880 | 11,053 | 21,399 | 22,863  | 17,285 | 15,290 |
| MEAN      | 492    | 488     | 461    | 434    | 802    | 3,142   | 351    | 357    | 713    | 738     | 576    | 493    |
| MAX       | 541    | 606     | 473    | 484    | 3,200  | 4,370   | 414    | 559    | 1,160  | 1,110   | 612    | 548    |
| MIN       | 385    | 372     | 431    | 237    | 406    | 440     | 317    | 278    | 477    | 601     | 547    | 366    |
| AC-FT     | 30,280 | 28,080  | 28,350 | 25,820 | 49,340 | 187,000 | 21,580 | 21,920 | 42,440 | 45,350  | 34,280 | 30,330 |
| YEAR 1996 | TOTAL  | 274,644 | MEAN   | 750    | MAX    | 4,370   | MIN    | 237    | AC-FT  | 544,800 |        |        |

# NORTH PLATTE RIVER BASIN

**TUB SPRINGS near Scottsbluff, 06680000 - 1996**

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

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

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

PERIOD OF RECORD.--1948 - present

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

EXTREMES FOR PERIOD OF RECORD.--Peak 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.--Peak discharge 181 cubic feet per second August 29, gage height 1.77 feet; minimum daily discharge 21 cubic feet per second April 23-25, 27-29.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 30    | 30     | 26    | 25    | 49    | 66    | 34    | 42    | 82    | 51     | 46    | 35    |
| 2         | 30    | 30     | 27    | 26    | 44    | 64    | 31    | 41    | 80    | 53     | 46    | 35    |
| 3         | 31    | 29     | 27    | 26    | 45    | 65    | 28    | 35    | 79    | 55     | 46    | 37    |
| 4         | 31    | 29     | 26    | 26    | 47    | 67    | 25    | 31    | 75    | 56     | 46    | 36    |
| 5         | 32    | 28     | 26    | 26    | 44    | 65    | 30    | 32    | 75    | 55     | 46    | 36    |
| 6         | 33    | 27     | 26    | 25    | 44    | 62    | 27    | 29    | 83    | 55     | 45    | 36    |
| 7         | 34    | 30     | 26    | 24    | 46    | 59    | 26    | 34    | 81    | 58     | 44    | 36    |
| 8         | 34    | 27     | 26    | 25    | 42    | 55    | 25    | 34    | 76    | 56     | 43    | 36    |
| 9         | 34    | 28     | 26    | 24    | 45    | 54    | 27    | 32    | 75    | 55     | 43    | 36    |
| 10        | 34    | 27     | 25    | 24    | 42    | 53    | 31    | 38    | 73    | 55     | 43    | 36    |
| 11        | 34    | 27     | 25    | 25    | 37    | 52    | 27    | 40    | 74    | 55     | 43    | 35    |
| 12        | 33    | 27     | 24    | 25    | 39    | 56    | 45    | 38    | 67    | 55     | 43    | 35    |
| 13        | 33    | 27     | 24    | 24    | 37    | 56    | 62    | 38    | 69    | 54     | 43    | 34    |
| 14        | 32    | 27     | 24    | 24    | 35    | 60    | 65    | 40    | 73    | 53     | 42    | 34    |
| 15        | 33    | 27     | 24    | 23    | 38    | 61    | 64    | 41    | 73    | 53     | 42    | 34    |
| 16        | 33    | 27     | 24    | 23    | 29    | 64    | 43    | 44    | 73    | 52     | 42    | 34    |
| 17        | 32    | 27     | 24    | 23    | 23    | 65    | 35    | 45    | 84    | 53     | 42    | 33    |
| 18        | 31    | 28     | 23    | 25    | 24    | 65    | 32    | 46    | 85    | 53     | 42    | 33    |
| 19        | 32    | 28     | 23    | 23    | 24    | 63    | 26    | 45    | 87    | 53     | 43    | 33    |
| 20        | 32    | 28     | 23    | 22    | 31    | 61    | 28    | 56    | 73    | 53     | 42    | 33    |
| 21        | 33    | 28     | 27    | 22    | 36    | 53    | 29    | 66    | 67    | 52     | 42    | 33    |
| 22        | 33    | 28     | 28    | 22    | 34    | 50    | 27    | 60    | 63    | 50     | 41    | 33    |
| 23        | 32    | 27     | 27    | 21    | 38    | 48    | 31    | 59    | 79    | 49     | 40    | 33    |
| 24        | 31    | 27     | 27    | 21    | 51    | 38    | 32    | 53    | 91    | 51     | 39    | 32    |
| 25        | 31    | 27     | 27    | 21    | 51    | 33    | 30    | 53    | 95    | 49     | 39    | 32    |
| 26        | 31    | 27     | 28    | 22    | 73    | 27    | 28    | 52    | 99    | 49     | 38    | 32    |
| 27        | 30    | 27     | 28    | 21    | 72    | 26    | 31    | 52    | 88    | 48     | 37    | 33    |
| 28        | 30    | 27     | 27    | 21    | 61    | 31    | 29    | 68    | 55    | 48     | 36    | 33    |
| 29        | 30    | 26     | 26    | 21    | 63    | 30    | 36    | 95    | 55    | 48     | 35    | 33    |
| 30        | 30    | -----  | 26    | 40    | 65    | 32    | 35    | 104   | 55    | 47     | 35    | 32    |
| 31        | 30    | -----  | 26    | ----- | 67    | ----- | 40    | 87    | ----- | 47     | ----- | 32    |
| TOTAL     | 989   | 802    | 796   | 720   | 1,376 | 1,581 | 1,059 | 1,530 | 2,284 | 1,621  | 1,254 | 1,055 |
| MEAN      | 31.9  | 27.7   | 25.7  | 24.0  | 44.4  | 52.7  | 34.2  | 49.4  | 76.1  | 52.3   | 41.8  | 34.0  |
| MAX       | 34    | 30     | 28    | 40    | 73    | 67    | 65    | 104   | 99    | 58     | 46    | 37    |
| MIN       | 30    | 26     | 23    | 21    | 23    | 26    | 25    | 29    | 55    | 47     | 35    | 32    |
| AC-FT     | 1,960 | 1,590  | 1,580 | 1,430 | 2,730 | 3,140 | 2,100 | 3,030 | 4,530 | 3,220  | 2,490 | 2,090 |
| YEAR 1996 | TOTAL | 15,067 | MEAN  | 41.2  | MAX   | 104   | MIN   | 21    | AC-FT | 29,890 |       |       |

## NORTH PLATTE RIVER BASIN

## WINTERS CREEK CANAL from North Platte River, 00148000 - 1996

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

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

PERIOD OF RECORD.--1916, 1918 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB | MAR | APR | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV | DEC |
|-----------|-----|-----|-----|-----|-------|-------|-------|-------|-------|-----|-----|-----|
| 1         |     |     |     | 0   | 8.6   | 16    | 29    | 32    | 18    |     |     |     |
| 2         |     |     |     | 0   | 15    | 13    | 31    | 32    | 17    |     |     |     |
| 3         |     |     |     | 0   | 15    | 13    | 30    | 31    | 16    |     |     |     |
| 4         |     |     |     | 0   | 15    | 14    | 31    | 31    | 16    |     |     |     |
| 5         |     |     |     | 0   | 15    | 18    | 31    | 31    | 16    |     |     |     |
| 6         |     |     |     | 0   | 15    | 22    | 31    | 31    | 17    |     |     |     |
| 7         |     |     |     | 0   | 13    | 14    | 30    | 30    | 17    |     |     |     |
| 8         |     |     |     | 0   | 10    | 11    | 30    | 29    | 17    |     |     |     |
| 9         |     |     |     | 0   | 9.6   | 11    | 29    | 29    | 16    |     |     |     |
| 10        |     |     |     | 0   | 9.2   | 11    | 28    | 29    | 16    |     |     |     |
| 11        |     |     |     | 0   | 9.1   | 11    | 29    | 29    | 16    |     |     |     |
| 12        |     |     |     | 0   | 8.9   | 10    | 28    | 29    | 17    |     |     |     |
| 13        |     |     |     | 0   | 8.9   | 10    | 29    | 29    | 17    |     |     |     |
| 14        |     |     |     | 0   | 8.4   | 9.9   | 30    | 29    | 17    |     |     |     |
| 15        |     |     |     | 0   | 10    | 9.3   | 31    | 29    | 17    |     |     |     |
| 16        |     |     |     | 0   | 13    | 8.3   | 30    | 29    | 17    |     |     |     |
| 17        |     |     |     | 0   | 13    | 8.4   | 31    | 29    | 17    |     |     |     |
| 18        |     |     |     | 0   | 14    | 8.3   | 31    | 29    | 17    |     |     |     |
| 19        |     |     |     | 0   | 13    | 8.2   | 30    | 28    | 17    |     |     |     |
| 20        |     |     |     | 0   | 14    | 7.8   | 30    | 27    | 16    |     |     |     |
| 21        |     |     |     | 0   | 14    | 7.3   | 30    | 27    | 13    |     |     |     |
| 22        |     |     |     | 0   | 14    | 7.1   | 30    | 27    | 11    |     |     |     |
| 23        |     |     |     | 0   | 14    | 11    | 29    | 28    | 12    |     |     |     |
| 24        |     |     |     | 0   | 15    | 12    | 30    | 26    | 12    |     |     |     |
| 25        |     |     |     | 0   | 15    | 12    | 30    | 22    | 4.6   |     |     |     |
| 26        |     |     |     | 0   | 16    | 14    | 29    | 21    | 0     |     |     |     |
| 27        |     |     |     | 0   | 17    | 16    | 30    | 21    | 0     |     |     |     |
| 28        |     |     |     | 0   | 18    | 18    | 30    | 21    | 0     |     |     |     |
| 29        |     |     |     | 0   | 18    | 23    | 31    | 21    | 0     |     |     |     |
| 30        |     |     |     | 0   | 19    | 26    | 31    | 20    | 0     |     |     |     |
| 31        |     |     |     | 0   | 20    |       | 31    | 20    |       |     |     |     |
| TOTAL     |     |     |     | 0   | 417.7 | 380.6 | 930   | 846   | 386.6 |     |     |     |
| MEAN      |     |     |     | 0   | 13.5  | 12.7  | 30.0  | 27.3  | 12.9  |     |     |     |
| MAX       |     |     |     | 0   | 20    | 26    | 31    | 32    | 18    |     |     |     |
| MIN       |     |     |     | 0   | 8.4   | 7.1   | 28    | 20    | 0     |     |     |     |
| AC-FT     |     |     |     | 0   | 829   | 755   | 1,840 | 1,680 | 767   |     |     |     |
| YEAR 1996 | MAX | 32  | MIN | 0   | AC-FT | 5,870 |       |       |       |     |     |     |

# NORTH PLATTE RIVER BASIN

**WINTERS CREEK CANAL from Winters Creek, 00149000 - 1996**

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

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

PERIOD OF RECORD.--1919 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 8.4   | 1.5   | 40    | 48    | 26    |     |       |     |
| 2         |     |       |     | 0     | 15    | 1.4   | 42    | 50    | 26    |     |       |     |
| 3         |     |       |     | 0     | 14    | 11    | 43    | 48    | 26    |     |       |     |
| 4         |     |       |     | 0     | 14    | 16    | 48    | 48    | 21    |     |       |     |
| 5         |     |       |     | 0     | 15    | 15    | 50    | 48    | 20    |     |       |     |
| 6         |     |       |     | 0     | 14    | 15    | 49    | 47    | 21    |     |       |     |
| 7         |     |       |     | 0     | 12    | 15    | 50    | 46    | 18    |     |       |     |
| 8         |     |       |     | 0     | 10    | 14    | 52    | 46    | 17    |     |       |     |
| 9         |     |       |     | 0     | 10    | 14    | 54    | 48    | 18    |     |       |     |
| 10        |     |       |     | 0     | 10    | 13    | 52    | 51    | 22    |     |       |     |
| 11        |     |       |     | 0     | 11    | 13    | 51    | 51    | 19    |     |       |     |
| 12        |     |       |     | 0     | 11    | 12    | 45    | 50    | 18    |     |       |     |
| 13        |     |       |     | 0     | 12    | 11    | 45    | 49    | 18    |     |       |     |
| 14        |     |       |     | 0     | 13    | 12    | 45    | 51    | 16    |     |       |     |
| 15        |     |       |     | 0     | 15    | 13    | 47    | 51    | 14    |     |       |     |
| 16        |     |       |     | 0     | 20    | 14    | 47    | 50    | 14    |     |       |     |
| 17        |     |       |     | 0     | 20    | 14    | 52    | 49    | 16    |     |       |     |
| 18        |     |       |     | 0     | 19    | 14    | 53    | 49    | 19    |     |       |     |
| 19        |     |       |     | 0     | 19    | 15    | 51    | 46    | 18    |     |       |     |
| 20        |     |       |     | 0     | 19    | 17    | 48    | 46    | 16    |     |       |     |
| 21        |     |       |     | 0     | 18    | 17    | 48    | 46    | 16    |     |       |     |
| 22        |     |       |     | 0     | 17    | 21    | 46    | 46    | 15    |     |       |     |
| 23        |     |       |     | 0     | 19    | 24    | 48    | 44    | 14    |     |       |     |
| 24        |     |       |     | 0     | 20    | 22    | 48    | 43    | 14    |     |       |     |
| 25        |     |       |     | 0     | 25    | 20    | 48    | 43    | 7.1   |     |       |     |
| 26        |     |       |     | 0     | 19    | 20    | 51    | 41    | 0     |     |       |     |
| 27        |     |       |     | 0     | 1.8   | 25    | 51    | 39    | 0     |     |       |     |
| 28        |     |       |     | 0     | 1.5   | 33    | 50    | 40    | 0     |     |       |     |
| 29        |     |       |     | 0     | 11    | 28    | 49    | 37    | 0     |     |       |     |
| 30        |     | ----- |     | 0     | 13    | 36    | 49    | 31    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 1.8   | ----- | 49    | 29    | ----- |     | ----- |     |
| TOTAL     |     |       |     | 0     | 427.5 | 496.9 | 1,501 | 1,411 | 449.1 |     |       |     |
| MEAN      |     |       |     | 0     | 13.8  | 16.6  | 48.4  | 45.5  | 15.0  |     |       |     |
| MAX       |     |       |     | 0     | 25    | 36    | 54    | 51    | 26    |     |       |     |
| MIN       |     |       |     | 0     | 1.5   | 1.4   | 40    | 29    | 0     |     |       |     |
| AC-FT     |     |       |     | 0     | 848   | 986   | 2,980 | 2,800 | 891   |     |       |     |
| YEAR 1996 | MAX | 54    | MIN | 0     | AC-FT | 8,500 |       |       |       |     |       |     |

## NORTH PLATTE RIVER BASIN

CENTRAL CANAL from North Platte River, 00022000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1919 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 0     | 7.8   | 26    | 33    | 28    |     |       |     |
| 2         |     |       |     | 0     | 0     | 6.9   | 33    | 32    | 27    |     |       |     |
| 3         |     |       |     | 0     | 0     | 6.5   | 38    | 32    | 28    |     |       |     |
| 4         |     |       |     | 0     | 0     | 7.5   | 36    | 34    | 26    |     |       |     |
| 5         |     |       |     | 0     | 0     | 8.7   | 31    | 30    | 22    |     |       |     |
| 6         |     |       |     | 0     | 0     | 9.3   | 34    | 30    | 22    |     |       |     |
| 7         |     |       |     | 0     | 0     | 9.6   | 35    | 32    | 24    |     |       |     |
| 8         |     |       |     | 0     | 0     | 10    | 34    | 33    | 24    |     |       |     |
| 9         |     |       |     | 0     | 0     | 11    | 35    | 32    | 24    |     |       |     |
| 10        |     |       |     | 0     | 4.1   | 11    | 33    | 32    | 23    |     |       |     |
| 11        |     |       |     | 0     | 14    | 13    | 31    | 32    | 21    |     |       |     |
| 12        |     |       |     | 0     | 17    | 13    | 31    | 31    | 19    |     |       |     |
| 13        |     |       |     | 0     | 19    | 11    | 32    | 31    | 18    |     |       |     |
| 14        |     |       |     | 0     | 17    | 11    | 33    | 31    | 18    |     |       |     |
| 15        |     |       |     | 0     | 19    | 13    | 33    | 30    | 18    |     |       |     |
| 16        |     |       |     | 0     | 19    | 15    | 32    | 30    | 17    |     |       |     |
| 17        |     |       |     | 0     | 18    | 16    | 33    | 30    | 18    |     |       |     |
| 18        |     |       |     | 0     | 18    | 16    | 34    | 31    | 14    |     |       |     |
| 19        |     |       |     | 0     | 17    | 13    | 34    | 31    | 9.1   |     |       |     |
| 20        |     |       |     | 0     | 18    | 7.4   | 35    | 30    | 9.5   |     |       |     |
| 21        |     |       |     | 0     | 19    | 11    | 35    | 31    | 8.9   |     |       |     |
| 22        |     |       |     | 0     | 20    | 22    | 33    | 29    | 5.6   |     |       |     |
| 23        |     |       |     | 0     | 20    | 23    | 33    | 28    | 3.2   |     |       |     |
| 24        |     |       |     | 0     | 21    | 22    | 33    | 32    | 2.5   |     |       |     |
| 25        |     |       |     | 0     | 19    | 22    | 32    | 32    | 0     |     |       |     |
| 26        |     |       |     | 0     | 17    | 21    | 33    | 30    | 0     |     |       |     |
| 27        |     |       |     | 0     | 10    | 22    | 33    | 30    | 0     |     |       |     |
| 28        |     |       |     | 0     | 7.9   | 28    | 32    | 30    | 0     |     |       |     |
| 29        |     |       |     | 0     | 8.9   | 22    | 33    | 30    | 0     |     |       |     |
| 30        |     | ----- |     | 0     | 7.8   | 26    | 33    | 29    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 7.1   | ----- | 32    | 29    | ----- |     | ----- |     |
| TOTAL     |     |       |     | 0     | 337.6 | 435.7 | 1,025 | 957   | 429.8 |     |       |     |
| MEAN      |     |       |     | 0     | 10.9  | 14.5  | 33.1  | 30.9  | 14.3  |     |       |     |
| MAX       |     |       |     | 0     | 21    | 28    | 38    | 34    | 28    |     |       |     |
| MIN       |     |       |     | 0     | 0     | 6.5   | 26    | 28    | 0     |     |       |     |
| AC-FT     |     |       |     | 0     | 670   | 864   | 2,030 | 1,900 | 853   |     |       |     |
| YEAR 1996 | MAX | 38    | MIN | 0     | AC-FT | 6,320 |       |       |       |     |       |     |

# NORTH PLATTE RIVER BASIN

**WINTERS CREEK near Scottsbluff, 06681000 - 1996**

LOCATION.--NW1/4SE1/4 Sec. 30-22-54 W., Scotts Bluff County, 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 271 cubic feet per second May 2, gage height 4.04 feet; minimum daily discharge 15 cubic feet per second July 2.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 43    | 35     | 30    | 37    | 220   | 92    | 18    | 67    | 119   | 79     | 55    | 44    |
| 2         | 44    | 36     | 30    | 38    | 253   | 88    | 15    | 62    | 118   | 76     | 54    | 45    |
| 3         | 40    | 35     | 30    | 36    | 193   | 77    | 16    | 63    | 108   | 76     | 54    | 44    |
| 4         | 39    | 35     | 30    | 35    | 179   | 70    | 19    | 61    | 99    | 74     | 54    | 43    |
| 5         | 38    | 35     | 31    | 34    | 184   | 67    | 20    | 60    | 93    | 74     | 53    | 43    |
| 6         | 39    | 34     | 31    | 34    | 115   | 66    | 18    | 55    | 107   | 72     | 55    | 42    |
| 7         | 39    | 34     | 31    | 34    | 55    | 64    | 18    | 52    | 109   | 71     | 55    | 40    |
| 8         | 38    | 34     | 32    | 36    | 48    | 63    | 18    | 48    | 106   | 69     | 52    | 40    |
| 9         | 38    | 35     | 31    | 36    | 44    | 60    | 20    | 44    | 113   | 68     | 53    | 41    |
| 10        | 38    | 34     | 31    | 34    | 42    | 60    | 26    | 47    | 134   | 66     | 52    | 42    |
| 11        | 37    | 33     | 31    | 35    | 43    | 63    | 26    | 51    | 137   | 64     | 51    | 41    |
| 12        | 37    | 33     | 31    | 36    | 42    | 60    | 63    | 52    | 137   | 63     | 52    | 40    |
| 13        | 36    | 34     | 31    | 36    | 42    | 57    | 76    | 53    | 162   | 63     | 50    | 40    |
| 14        | 36    | 35     | 31    | 36    | 41    | 60    | 94    | 51    | 166   | 61     | 51    | 39    |
| 15        | 36    | 34     | 31    | 36    | 42    | 62    | 104   | 51    | 136   | 62     | 51    | 40    |
| 16        | 36    | 35     | 31    | 36    | 46    | 62    | 89    | 52    | 117   | 61     | 52    | 39    |
| 17        | 34    | 34     | 31    | 36    | 46    | 63    | 78    | 68    | 112   | 61     | 54    | 38    |
| 18        | 35    | 33     | 31    | 38    | 47    | 59    | 48    | 80    | 148   | 60     | 50    | 40    |
| 19        | 37    | 32     | 33    | 38    | 48    | 54    | 39    | 63    | 213   | 60     | 52    | 40    |
| 20        | 36    | 32     | 34    | 37    | 50    | 52    | 39    | 66    | 221   | 59     | 50    | 39    |
| 21        | 36    | 31     | 35    | 37    | 46    | 53    | 38    | 64    | 217   | 58     | 51    | 38    |
| 22        | 35    | 31     | 37    | 36    | 48    | 61    | 40    | 62    | 217   | 57     | 49    | 38    |
| 23        | 35    | 29     | 36    | 35    | 53    | 82    | 38    | 66    | 165   | 59     | 49    | 38    |
| 24        | 35    | 29     | 37    | 36    | 57    | 77    | 39    | 68    | 103   | 59     | 50    | 38    |
| 25        | 35    | 29     | 37    | 36    | 69    | 64    | 42    | 65    | 99    | 60     | 49    | 39    |
| 26        | 35    | 30     | 36    | 51    | 116   | 55    | 46    | 66    | 95    | 57     | 47    | 39    |
| 27        | 35    | 29     | 35    | 35    | 108   | 59    | 63    | 66    | 93    | 55     | 46    | 39    |
| 28        | 35    | 30     | 36    | 56    | 91    | 93    | 69    | 68    | 85    | 58     | 48    | 39    |
| 29        | 34    | 30     | 36    | 115   | 75    | 62    | 54    | 84    | 81    | 57     | 45    | 39    |
| 30        | 34    | -----  | 37    | 151   | 79    | 21    | 55    | 133   | 80    | 58     | 46    | 39    |
| 31        | 35    | -----  | 38    | ----- | 110   | ----- | 60    | 144   | ----- | 56     | ----- | 38    |
| TOTAL     | 1,140 | 950    | 1,022 | 1,306 | 2,632 | 1,926 | 1,388 | 2,032 | 3,890 | 1,973  | 1,530 | 1,244 |
| MEAN      | 36.8  | 32.8   | 33.0  | 43.5  | 84.9  | 64.2  | 44.8  | 65.5  | 130   | 63.6   | 51.0  | 40.1  |
| MAX       | 44    | 36     | 38    | 151   | 253   | 93    | 104   | 144   | 221   | 79     | 55    | 45    |
| MIN       | 34    | 29     | 30    | 34    | 41    | 21    | 15    | 44    | 80    | 55     | 45    | 38    |
| AC-FT     | 2,260 | 1,880  | 2,030 | 2,590 | 5,220 | 3,820 | 2,750 | 4,030 | 7,720 | 3,910  | 3,030 | 2,470 |
| YEAR 1996 | TOTAL | 21,033 | MEAN  | 57.5  | MAX   | 253   | MIN   | 15    | AC-FT | 41,720 |       |       |

## NORTH PLATTE RIVER BASIN

## MINATARE CANAL from North Platte River, 00099000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1919 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT   | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-------|-------|-----|
| 1         |     |       |     | 0     | 51    | 23     | 52    | 105   | 36    | 21    |       |     |
| 2         |     |       |     | 0     | 51    | 23     | 55    | 97    | 36    | 19    |       |     |
| 3         |     |       |     | 0     | 52    | 26     | 81    | 92    | 35    | 19    |       |     |
| 4         |     |       |     | 0     | 58    | 27     | 101   | 94    | 35    | 19    |       |     |
| 5         |     |       |     | 0     | 55    | 25     | 107   | 93    | 35    | 18    |       |     |
| 6         |     |       |     | 0     | 48    | 22     | 108   | 92    | 34    | 18    |       |     |
| 7         |     |       |     | 0     | 56    | 21     | 106   | 90    | 32    | 18    |       |     |
| 8         |     |       |     | 0     | 63    | 23     | 106   | 88    | 32    | 17    |       |     |
| 9         |     |       |     | 0     | 56    | 22     | 108   | 86    | 32    | 17    |       |     |
| 10        |     |       |     | 0     | 43    | 20     | 112   | 90    | 30    | 18    |       |     |
| 11        |     |       |     | 0     | 50    | 24     | 113   | 88    | 28    | 18    |       |     |
| 12        |     |       |     | 0     | 51    | 23     | 117   | 86    | 27    | 18    |       |     |
| 13        |     |       |     | 0     | 52    | 28     | 121   | 86    | 27    | 18    |       |     |
| 14        |     |       |     | 0     | 45    | 34     | 121   | 87    | 27    | 7.4   |       |     |
| 15        |     |       |     | 0     | 54    | 35     | 122   | 92    | 26    | 0     |       |     |
| 16        |     |       |     | 0     | 58    | 34     | 119   | 93    | 25    | 0     |       |     |
| 17        |     |       |     | 0     | 45    | 33     | 114   | 90    | 25    | 0     |       |     |
| 18        |     |       |     | 0     | 45    | 37     | 110   | 91    | 25    | 0     |       |     |
| 19        |     |       |     | 0     | 45    | 43     | 105   | 91    | 22    | 0     |       |     |
| 20        |     |       |     | 0     | 56    | 44     | 104   | 91    | 22    | 0     |       |     |
| 21        |     |       |     | 0     | 57    | 51     | 105   | 96    | 22    | 0     |       |     |
| 22        |     |       |     | 0     | 57    | 62     | 104   | 98    | 22    | 0     |       |     |
| 23        |     |       |     | 0     | 42    | 63     | 104   | 99    | 21    | 0     |       |     |
| 24        |     |       |     | 0     | 40    | 42     | 106   | 87    | 19    | 0     |       |     |
| 25        |     |       |     | 0     | 39    | 53     | 106   | 69    | 22    | 0     |       |     |
| 26        |     |       |     | 0     | 41    | 55     | 103   | 60    | 22    | 0     |       |     |
| 27        |     |       |     | 0     | 30    | 60     | 103   | 52    | 23    | 0     |       |     |
| 28        |     |       |     | 0     | 26    | 64     | 105   | 49    | 23    | 0     |       |     |
| 29        |     |       |     | 0     | 24    | 65     | 100   | 44    | 24    | 0     |       |     |
| 30        |     | ----- |     | 30    | 24    | 59     | 106   | 39    | 24    | 0     |       |     |
| 31        |     | ----- |     | ----- | 23    | -----  | 106   | 38    | ----- | 0     | ----- |     |
| TOTAL     |     |       |     | 30    | 1,437 | 1,141  | 3,230 | 2,553 | 813   | 245.4 |       |     |
| MEAN      |     |       |     | 1.00  | 46.4  | 38.0   | 104   | 82.4  | 27.1  | 7.92  |       |     |
| MAX       |     |       |     | 30    | 63    | 65     | 122   | 105   | 36    | 21    |       |     |
| MIN       |     |       |     | 0     | 23    | 20     | 52    | 38    | 19    | 0     |       |     |
| AC-FT     |     |       |     | 60    | 2,850 | 2,260  | 6,410 | 5,060 | 1,610 | 487   |       |     |
| YEAR 1996 | MAX | 122   | MIN | 0     | AC-FT | 18,740 |       |       |       |       |       |     |

# NORTH PLATTE RIVER BASIN

**GERING CREEK near Gering, 06681500 - 1996**

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.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 1400 cubic feet per second May 30, gage height 8.01 feet; minimum daily discharge 17 cubic feet per second February 28, March 2-4, 20, 24.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 21    | 18    | 19    | 19    | 67    | 146   | 117   | 116   | 190   | 32    | 30    | 25    |
| 2     | 20    | 17    | 19    | 20    | 106   | 149   | 115   | 113   | 179   | 31    | 30    | 25    |
| 3     | 21    | 17    | 19    | 20    | 96    | 141   | 94    | 108   | 174   | 32    | 30    | 24    |
| 4     | 21    | 17    | 19    | 19    | 78    | 146   | 91    | 114   | 172   | 32    | 30    | 24    |
| 5     | 21    | 19    | 19    | 20    | 104   | 149   | 94    | 122   | 168   | 32    | 30    | 25    |
| 6     | 20    | 21    | 18    | 19    | 138   | 144   | 95    | 121   | 179   | 32    | 28    | 25    |
| 7     | 20    | 23    | 18    | 20    | 128   | 144   | 91    | 116   | 194   | 32    | 27    | 24    |
| 8     | 21    | 21    | 18    | 19    | 94    | 143   | 87    | 114   | 204   | 31    | 27    | 24    |
| 9     | 21    | 21    | 19    | 19    | 90    | 146   | 100   | 114   | 210   | 31    | 27    | 25    |
| 10    | 22    | 21    | 20    | 19    | 90    | 142   | 111   | 114   | 221   | 31    | 27    | 26    |
| 11    | 21    | 19    | 20    | 19    | 108   | 129   | 113   | 109   | 212   | 31    | 26    | 25    |
| 12    | 21    | 20    | 20    | 19    | 110   | 137   | 109   | 106   | 211   | 31    | 26    | 25    |
| 13    | 21    | 20    | 20    | 19    | 115   | 128   | 109   | 103   | 221   | 31    | 27    | 25    |
| 14    | 21    | 20    | 25    | 19    | 113   | 129   | 116   | 100   | 222   | 31    | 27    | 25    |
| 15    | 21    | 20    | 20    | 18    | 105   | 123   | 130   | 130   | 231   | 31    | 28    | 24    |
| 16    | 21    | 19    | 19    | 19    | 101   | 120   | 132   | 136   | 237   | 32    | 27    | 25    |
| 17    | 27    | 20    | 19    | 19    | 101   | 121   | 124   | 137   | 220   | 32    | 25    | 21    |
| 18    | 27    | 20    | 19    | 19    | 109   | 113   | 115   | 126   | 237   | 31    | 27    | 19    |
| 19    | 21    | 20    | 18    | 20    | 127   | 109   | 117   | 123   | 268   | 32    | 31    | 19    |
| 20    | 21    | 20    | 17    | 19    | 141   | 97    | 115   | 121   | 229   | 32    | 28    | 22    |
| 21    | 21    | 20    | 18    | 20    | 161   | 104   | 113   | 119   | 154   | 31    | 27    | 23    |
| 22    | 21    | 20    | 18    | 19    | 161   | 115   | 111   | 126   | 81    | 30    | 27    | 22    |
| 23    | 21    | 19    | 19    | 19    | 150   | 118   | 105   | 136   | 50    | 31    | 27    | 20    |
| 24    | 21    | 19    | 17    | 20    | 168   | 109   | 105   | 138   | 51    | 31    | 26    | 20    |
| 25    | 20    | 19    | 20    | 21    | 176   | 102   | 103   | 141   | 44    | 31    | 27    | 20    |
| 26    | 20    | 19    | 19    | 20    | 247   | 104   | 100   | 143   | 35    | 33    | 27    | 21    |
| 27    | 20    | 18    | 20    | 20    | 222   | 110   | 102   | 144   | 35    | 31    | 26    | 23    |
| 28    | 21    | 17    | 20    | 22    | 189   | 121   | 105   | 148   | 34    | 31    | 27    | 23    |
| 29    | 20    | 18    | 20    | 58    | 167   | 124   | 106   | 176   | 33    | 32    | 26    | 24    |
| 30    | 19    | ----- | 20    | 94    | 251   | 126   | 107   | 196   | 32    | 31    | 26    | 25    |
| 31    | 18    | ----- | 20    | ----- | 154   | ----- | 111   | 184   | ----- | 30    | ----- | 24    |
| TOTAL | 652   | 562   | 596   | 697   | 4,167 | 3,789 | 3,343 | 3,994 | 4,728 | 972   | 824   | 722   |
| MEAN  | 21.0  | 19.4  | 19.2  | 23.2  | 134   | 126   | 108   | 129   | 158   | 31.4  | 27.5  | 23.3  |
| MAX   | 27    | 23    | 25    | 94    | 251   | 149   | 132   | 196   | 268   | 33    | 31    | 26    |
| MIN   | 18    | 17    | 17    | 18    | 67    | 97    | 87    | 100   | 32    | 30    | 25    | 19    |
| AC-FT | 1,290 | 1,110 | 1,180 | 1,380 | 8,270 | 7,520 | 6,630 | 7,920 | 9,380 | 1,930 | 1,630 | 1,430 |

YEAR 1996    TOTAL            25,046    MEAN            68.4    MAX            268    MIN            17    AC-FT            49,680



## NORTH PLATTE RIVER BASIN

CASTLE ROCK - STEAMBOAT CANAL from North Platte River, 00021000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1916, 1918 - present

REMARKS.--E indicates estimated daily discharge.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP    | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|--------|-----|-------|-----|
| 1         |     |       |     | 0     | 47    | 43     | 90    | 99    | 60     |     |       |     |
| 2         |     |       |     | 0     | 46    | 43     | 89    | 98    | 58     |     |       |     |
| 3         |     |       |     | 0     | 57    | 43     | 80    | 106   | 55     |     |       |     |
| 4         |     |       |     | 0     | 56    | 39     | 77    | 106   | 53     |     |       |     |
| 5         |     |       |     | 0     | 51    | 39     | 90    | 107   | 51     |     |       |     |
| 6         |     |       |     | 0     | 46    | 42     | 92    | 106   | 49     |     |       |     |
| 7         |     |       |     | 0     | 46    | 42     | 92    | 100   | 46     |     |       |     |
| 8         |     |       |     | 0     | 57    | 38     | 89    | 95    | 45     |     |       |     |
| 9         |     |       |     | 0     | 59    | 35     | 90    | 89    | 44     |     |       |     |
| 10        |     |       |     | 0     | 60    | 34     | 92    | 89    | 44     |     |       |     |
| 11        |     |       |     | 0     | 59    | 34     | 87    | 87    | 39     |     |       |     |
| 12        |     |       |     | 0     | 58    | 35     | 91    | 85    | 36     |     |       |     |
| 13        |     |       |     | 0     | 59    | 34     | 94    | 85    | 35     |     |       |     |
| 14        |     |       |     | 0     | 58    | 37     | 92    | 89    | 35     |     |       |     |
| 15        |     |       |     | 0     | 65    | 49     | 90    | 91    | 35     |     |       |     |
| 16        |     |       |     | 15    | 74    | 49     | 88    | 92    | 35     |     |       |     |
| 17        |     |       |     | 25    | 66    | 49     | 85    | 83    | 32     |     |       |     |
| 18        |     |       |     | 30    | 65    | 49     | 88    | 91    | 29     | E   |       |     |
| 19        |     |       |     | 39    | 64    | 49     | 89    | 90    | 26     | E   |       |     |
| 20        |     |       |     | 38    | 70    | 55     | 89    | 90    | 23     | E   |       |     |
| 21        |     |       |     | 38    | 63    | 63     | 89    | 90    | 19     | E   |       |     |
| 22        |     |       |     | 38    | 57    | 67     | 89    | 90    | 16     | E   |       |     |
| 23        |     |       |     | 41    | 68    | 72     | 93    | 91    | 13     |     |       |     |
| 24        |     |       |     | 47    | 58    | 80     | 95    | 92    | 12     |     |       |     |
| 25        |     |       |     | 45    | 52    | 83     | 93    | 91    | 11     |     |       |     |
| 26        |     |       |     | 35    | 49    | 85     | 92    | 84    | 8.5    |     |       |     |
| 27        |     |       |     | 19    | 35    | 96     | 95    | 82    | .56    |     |       |     |
| 28        |     |       |     | 18    | 34    | 91     | 95    | 82    | 0      |     |       |     |
| 29        |     |       |     | 26    | 37    | 88     | 94    | 82    | 0      |     |       |     |
| 30        |     | ----- |     | 46    | 43    | 91     | 96    | 72    | 0      |     |       |     |
| 31        |     | ----- |     | ----- | 42    | -----  | 96    | 65    | -----  |     | ----- |     |
| TOTAL     |     |       |     | 500   | 1,703 | 1,654  | 2,801 | 2,805 | 910.06 |     |       |     |
| MEAN      |     |       |     | 16.7  | 54.9  | 55.1   | 90.4  | 90.5  | 30.3   |     |       |     |
| MAX       |     |       |     | 47    | 74    | 96     | 96    | 107   | 60     |     |       |     |
| MIN       |     |       |     | 0     | 34    | 34     | 77    | 65    | 0      |     |       |     |
| AC-FT     |     |       |     | 992   | 3,380 | 3,280  | 5,560 | 5,560 | 1,810  |     |       |     |
| YEAR 1996 | MAX | 107   | MIN | 0     | AC-FT | 20,570 |       |       |        |     |       |     |

# NORTH PLATTE RIVER BASIN

**NORTH PLATTE RIVER near Minatare, 06682000 - 1996**

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., Scottsbluff County, Lat. 41° 47' 32", Long. 103° 31' 08", on left bank 50 feet upstream from bridge on State Highway 326 and 750 feet north of main channel bridge.

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 3,840 cubic feet per second June 12, combined channel discharge; minimum daily discharge 425 cubic feet per second August 9, combined channel discharge.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR    | APR    | MAY    | JUN     | JUL    | AUG    | SEP    | OCT     | NOV    | DEC    |
|-----------|--------|---------|--------|--------|--------|---------|--------|--------|--------|---------|--------|--------|
| 1         | 776    | 800E    | 658    | 639    | 832    | 3,380   | 700E   | 540E   | 962    | 1,410   | 820E   | 760E   |
| 2         | 765    | 820E    | 657    | 641    | 928    | 3,470   | 640E   | 520E   | 932    | 1,350   | 840E   | 760E   |
| 3         | 775    | 840E    | 677    | 632    | 917    | 3,570   | 580E   | 490E   | 920    | 1,270   | 840E   | 760E   |
| 4         | 782    | 860E    | 683    | 623    | 940E   | 3,640   | 540E   | 470E   | 913    | 1,230   | 840E   | 757    |
| 5         | 771    | 880E    | 656    | 624    | 1,000E | 3,730   | 560E   | 480E   | 884    | 1,190   | 820E   | 763    |
| 6         | 760E   | 880E    | 645    | 625    | 1,040E | 3,760   | 560E   | 467    | 931    | 1,210   | 807    | 745    |
| 7         | 780E   | 880E    | 661    | 626    | 1,060E | 3,750   | 540E   | 442    | 995    | 1,190   | 800E   | 720E   |
| 8         | 787    | 840E    | 665    | 639    | 942    | 3,740   | 520E   | 428    | 1,010  | 1,170   | 780E   | 720E   |
| 9         | 789    | 820E    | 673    | 644    | 879    | 3,760   | 500E   | 425    | 983    | 1,150   | 800E   | 720E   |
| 10        | 792    | 821     | 683    | 652    | 832    | 3,730   | 490E   | 432    | 980    | 1,120   | 780E   | 720E   |
| 11        | 790    | 793     | 685    | 654    | 760    | 3,730   | 500E   | 440    | 987    | 1,120   | 780E   | 720E   |
| 12        | 789    | 740E    | 678    | 672    | 705    | 3,690   | 520E   | 458    | 1,010  | 1,090   | 780E   | 720E   |
| 13        | 799    | 696     | 672    | 665    | 693    | 3,400   | 580E   | 455    | 1,040  | 1,080   | 780E   | 708    |
| 14        | 799    | 687     | 686    | 655    | 667    | 3,300   | 621    | 445    | 1,090  | 1,090   | 800E   | 708    |
| 15        | 798    | 685     | 675    | 643    | 655    | 3,370   | 657    | 470    | 1,110  | 1,080E  | 800E   | 700E   |
| 16        | 803    | 669     | 660E   | 650    | 664    | 3,540   | 626    | 500    | 1,150  | 1,060E  | 800E   | 700E   |
| 17        | 793    | 675     | 660E   | 659    | 628    | 3,580   | 567    | 515    | 1,180  | 1,040E  | 800E   | 640E   |
| 18        | 780E   | 676     | 660E   | 646    | 597    | 3,630   | 500E   | 532    | 1,330  | 1,020E  | 800E   | 660E   |
| 19        | 760E   | 664     | 650    | 639    | 589    | 3,500   | 460E   | 523    | 1,440  | 1,020E  | 820E   | 660E   |
| 20        | 760E   | 658     | 645    | 649    | 610    | 3,090   | 450E   | 536    | 1,470  | 1,000E  | 840E   | 640E   |
| 21        | 763    | 664     | 648    | 661    | 619    | 2,830   | 440E   | 553    | 1,370  | 980E    | 820E   | 640E   |
| 22        | 796    | 661     | 653    | 676    | 641    | 2,670   | 440E   | 560    | 1,260  | 980E    | 820E   | 660    |
| 23        | 798    | 680E    | 652    | 679    | 655    | 2,620   | 430E   | 603    | 1,180  | 960E    | 800E   | 660E   |
| 24        | 786    | 708     | 634    | 679    | 825    | 2,520   | 440E   | 668    | 1,110  | 940E    | 780E   | 660E   |
| 25        | 760E   | 710     | 639    | 663    | 990    | 2,170   | 450E   | 678    | 1,230  | 940E    | 780E   | 660E   |
| 26        | 760E   | 702     | 619    | 591    | 1,300  | 1,870   | 440E   | 684    | 1,230  | 920E    | 780E   | 680E   |
| 27        | 740E   | 680     | 632    | 530    | 1,710  | 1,550   | 430E   | 695    | 1,290  | 920E    | 780E   | 680E   |
| 28        | 740E   | 671     | 638    | 517    | 1,890  | 1,210   | 460E   | 701    | 1,360  | 900E    | 780E   | 680E   |
| 29        | 720E   | 654     | 641    | 570    | 2,120  | 922     | 460E   | 727    | 1,390  | 880E    | 760E   | 700E   |
| 30        | 740E   | -----   | 637    | 757    | 2,680  | 743     | 480E   | 945    | 1,400  | 860E    | 760E   | 680E   |
| 31        | 760E   | -----   | 637    | -----  | 3,290  | -----   | 490E   | 966    | -----  | 840E    | -----  | 680E   |
| TOTAL     | 24,011 | 21,514  | 20,359 | 19,200 | 32,658 | 90,465  | 16,071 | 17,348 | 34,137 | 33,010  | 23,987 | 21,661 |
| MEAN      | 775    | 742     | 657    | 640    | 1,053  | 3,016   | 518    | 560    | 1,138  | 1,065   | 800    | 699    |
| MAX       | 803    | 880     | 686    | 757    | 3,290  | 3,760   | 700    | 966    | 1,470  | 1,410   | 840    | 763    |
| MIN       | 720    | 654     | 619    | 517    | 589    | 743     | 430    | 425    | 884    | 840     | 760    | 640    |
| AC-FT     | 47,630 | 42,670  | 40,380 | 38,080 | 64,780 | 179,400 | 31,880 | 34,410 | 67,710 | 65,480  | 47,580 | 42,960 |
| YEAR 1996 | TOTAL  | 354,421 | MEAN   | 968    | MAX    | 3,760   | MIN    | 425    | AC-FT  | 703,000 |        |        |

## NORTH PLATTE RIVER BASIN

## NINE MILE CANAL from North Platte River, 00106000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB | MAR | APR | MAY    | JUN   | JUL   | AUG   | SEP   | OCT    | NOV | DEC |
|-----------|-----|-----|-----|-----|--------|-------|-------|-------|-------|--------|-----|-----|
| 1         |     |     |     | 0   | 0      | 0     | 22    | 24    | 19    | 11     |     |     |
| 2         |     |     |     | 0   | 0      | 0     | 28    | 25    | 18    | 8.8    |     |     |
| 3         |     |     |     | 0   | 0      | 0     | 22    | 24    | 16    | 1.2    |     |     |
| 4         |     |     |     | 0   | 0      | 0     | 17    | 22    | 20    |        |     |     |
| 5         |     |     |     | 0   | 0      | 0     | 16    | 22    | 20    | 4.2    |     |     |
| 6         |     |     |     | 0   | 0      | 0     | 14    | 21    | 20    | 3.6    |     |     |
| 7         |     |     |     | 0   | 0      | 0     | 15    | 23    | 20    | 6.2    |     |     |
| 8         |     |     |     | 0   | 14     | 0     | 14    | 25    | 21    | 9.4    |     |     |
| 9         |     |     |     | 0   | 9.6    | 0     | 24    | 25    | 16    | 8.3    |     |     |
| 10        |     |     |     | 0   | .24    | 0     | 39    | 24    | 9.3   | 7.2    |     |     |
| 11        |     |     |     | 0   | 15     | 0     | 19    | 25    | 8.8   | 9.5    |     |     |
| 12        |     |     |     | 0   | 42     | 0     | 21    | 25    | 8.8   | 15     |     |     |
| 13        |     |     |     | 0   | 34     | 0     | 24    | 25    | 8.8   | 13     |     |     |
| 14        |     |     |     | 0   | 33     | 0     | 31    | 27    | 8.8   | 12     |     |     |
| 15        |     |     |     | 0   | 37     | 0     | 37    | 28    | 7.9   | 11     |     |     |
| 16        |     |     |     | 0   | 42     | 0     | 36    | 28    | 11    | 11     |     |     |
| 17        |     |     |     | 0   | 36     | 7.5   | 32    | 25    | 20    | 7.9    |     |     |
| 18        |     |     |     | 0   | 32     | 18    | 29    | 32    | 16    | 7.9    |     |     |
| 19        |     |     |     | 0   | 31     | 19    | 28    | 34    | 11    | 6.3    |     |     |
| 20        |     |     |     | 0   | 30     | 16    | 26    | 34    | 5.6   | .12    |     |     |
| 21        |     |     |     | 0   | 30     | 18    | 25    | 34    | 7.9   | .04    |     |     |
| 22        |     |     |     | 0   | 30     | 23    | 27    | 30    | 5.3   | 0      |     |     |
| 23        |     |     |     | 0   | 27     | 24    | 29    | 19    | 3.9   | 0      |     |     |
| 24        |     |     |     | 0   | 21     | 23    | 30    | 18    | 4.5   | 0      |     |     |
| 25        |     |     |     | 0   | 23     | 16    | 31    | 16    | 14    | 0      |     |     |
| 26        |     |     |     | 0   | 25     | 8.9   | 31    | 14    | 16    | 0      |     |     |
| 27        |     |     |     | 0   | 6.9    | 1.4   | 32    | 18    | 17    | 0      |     |     |
| 28        |     |     |     | 0   | 0      | 14    | 34    | 23    | 18    | 0      |     |     |
| 29        |     |     |     | 0   | 0      | 13    | 34    | 23    | 19    | 0      |     |     |
| 30        |     |     |     | 0   | 4.4    | 19    | 34    | 24    | 15    | 0      |     |     |
| 31        |     |     |     | 0   | 1.1    |       | 31    | 22    |       | 0      |     |     |
| TOTAL     |     |     |     | 0   | 524.24 | 220.8 | 832   | 763   | 406.6 | 153.86 |     |     |
| MEAN      |     |     |     | 0   | 16.9   | 7.36  | 26.8  | 24.6  | 13.6  | 5.13   |     |     |
| MAX       |     |     |     | 0   | 42     | 24    | 39    | 34    | 21    | 15     |     |     |
| MIN       |     |     |     | 0   | 0      | 0     | 14    | 14    | 3.9   | 0      |     |     |
| AC-FT     |     |     |     | 0   | 1,040  | 438   | 1,650 | 1,510 | 806   | 305    |     |     |
| YEAR 1996 | MAX | 42  | MIN | 0   | AC-FT  | 5,750 |       |       |       |        |     |     |

# NORTH PLATTE RIVER BASIN

NINE MILE CANAL from Ninemile Creek, 00106100 - 1996

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1988 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT    | NOV | DEC   |
|-----------|-----|-----|-----|-------|-------|--------|-------|-------|-------|--------|-----|-------|
| 1         |     |     |     | 0     | 36    | 37     | 38    | 47    | 41    | 23     | E   |       |
| 2         |     |     |     | 0     | 40    | 34     | 38    | 50    | 43    | 14     | E   |       |
| 3         |     |     |     | 0     | 40    | 30     | 43    | 46    | 43    | 6.3    |     |       |
| 4         |     |     |     | 0     | 41    | 32     | 45    | 51    | 41    | 10     |     |       |
| 5         |     |     |     | 0     | 41    | 31     | 47    | 45    | 41    | 15     |     |       |
| 6         |     |     |     | 0     | 40    | 30     | 49    | 50    | 49    | 15     |     |       |
| 7         |     |     |     | 0     | 40    | 29     | 52    | 49    | 52    | 15     |     |       |
| 8         |     |     |     | 0     | 41    | 29     | 52    | 48    | 43    | 14     |     |       |
| 9         |     |     |     | 0     | 42    | 29     | 54    | 46    | 42    | 10     |     |       |
| 10        |     |     |     | 0     | 43    | 29     | 54    | 48    | 43    | 8.3    |     |       |
| 11        |     |     |     | 0     | 43    | 30     | 51    | 48    | 46    | 7.4    |     |       |
| 12        |     |     |     | 0     | 42    | 35     | 58    | 52    | 49    | 6.7    |     |       |
| 13        |     |     |     | 0     | 42    | 36     | 62    | 51    | 45    | 11     |     |       |
| 14        |     |     |     | 0     | 41    | 43     | 55    | 50    | 39    | 19     |     |       |
| 15        |     |     |     | 0     | 37    | 48     | 38    | 50    | 32    | 18     |     |       |
| 16        |     |     |     | 3.4   | 34    | 46     | 44    | 53    | 32    | 17     |     |       |
| 17        |     |     |     | 7.1   | 35    | 46     | 47    | 54    | 32    | 8.8    |     |       |
| 18        |     |     |     | 9.0   | 35    | 48     | 53    | 47    | 33    | 4.7    |     |       |
| 19        |     |     |     | 11    | 35    | 45     | 47    | 47    | 34    | 5.3    |     |       |
| 20        |     |     |     | 12    | 41    | 38     | 45    | 49    | 34    | .44    |     |       |
| 21        |     |     |     | 12    | 44    | 40     | 48    | 51    | 34    | .74    |     |       |
| 22        |     |     |     | 12    | 45    | 42     | 45    | 51    | 34    | 0      |     |       |
| 23        |     |     |     | 12    | 48    | 49     | 43    | 51    | 33    | 0      |     |       |
| 24        |     |     |     | 12    | 53    | 48     | 40    | 53    | 31    | 0      |     |       |
| 25        |     |     |     | 9.8   | 53    | 45     | 41    | 50    | 20    | 0      |     |       |
| 26        |     |     |     | 7.5   | 56    | 45     | 42    | 50    | 13E   | 0      |     |       |
| 27        |     |     |     | 5.7   | 52    | 43     | 43    | 48    | 23E   | 0      |     |       |
| 28        |     |     |     | 5.8   | 49    | 41     | 43    | 44    | 23E   | 0      |     |       |
| 29        |     |     |     | 17    | 40    | 39     | 45    | 41    | 23E   | 0      |     |       |
| 30        |     |     |     | 32    | 43    | 40     | 48    | 40    | 23E   | 0      |     |       |
| 31        |     |     |     | ----- | 44    | -----  | 46    | 39    | ----- | 0      |     | ----- |
| TOTAL     |     |     |     | 168.3 | 1,316 | 1,157  | 1,456 | 1,499 | 1,071 | 229.68 |     |       |
| MEAN      |     |     |     | 5.61  | 42.5  | 38.6   | 47.0  | 48.4  | 35.7  | 7.41   |     |       |
| MAX       |     |     |     | 32    | 56    | 49     | 62    | 54    | 52    | 23     |     |       |
| MIN       |     |     |     | 0     | 34    | 29     | 38    | 39    | 13    | 0      |     |       |
| AC-FT     |     |     |     | 334   | 2,610 | 2,290  | 2,890 | 2,970 | 2,120 | 456    |     |       |
| YEAR 1996 | MAX | 62  | MIN | 0     | AC-FT | 13,680 |       |       |       |        |     |       |

## NORTH PLATTE RIVER BASIN

## NINE MILE CREEK near McGrew, 06682500 - 1996

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

PERIOD OF RECORD.--1932 - present

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

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

E indicates estimated daily discharge. Estimated records January 5-19. Records good except fair during irrigation season May through September 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 377 cubic feet per second May 30, gage height 4.09 feet; minimum daily discharge 39 cubic feet per second April 19-20.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY   | JUN   | JUL   | AUG    | SEP    | OCT    | NOV   | DEC   |
|-----------|-------|--------|-------|-------|-------|-------|-------|--------|--------|--------|-------|-------|
| 1         | 74    | 60     | 56    | 57    | 95    | 119   | 81    | 181    | 191    | 139    | 100   | 87    |
| 2         | 71    | 58     | 57    | 54    | 68    | 100   | 79    | 179    | 188    | 136    | 97    | 87    |
| 3         | 73    | 58     | 60    | 56    | 61    | 83    | 67    | 172    | 181    | 141    | 103   | 85    |
| 4         | 70    | 58     | 62    | 56    | 66    | 85    | 67    | 167    | 179    | 140    | 102   | 85    |
| 5         | 70E   | 61     | 60    | 55    | 69    | 84    | 75    | 168    | 181    | 135    | 100   | 85    |
| 6         | 70E   | 65     | 59    | 55    | 68    | 82    | 69    | 161    | 259    | 134    | 98    | 83    |
| 7         | 69E   | 67     | 57    | 54    | 69    | 79    | 71    | 161    | 261    | 133    | 97    | 82    |
| 8         | 69E   | 66     | 56    | 53    | 70    | 77    | 73    | 164    | 256    | 134    | 97    | 83    |
| 9         | 69E   | 67     | 59    | 53    | 72    | 75    | 79    | 170    | 246    | 134    | 97    | 84    |
| 10        | 70E   | 62     | 61    | 53    | 76    | 66    | 97    | 174    | 232    | 133    | 96    | 84    |
| 11        | 70E   | 58     | 62    | 52    | 79    | 50    | 92    | 165    | 227    | 136    | 94    | 83    |
| 12        | 72E   | 58     | 62    | 51    | 84    | 44    | 129   | 163    | 223    | 139    | 93    | 83    |
| 13        | 72E   | 59     | 58    | 52    | 80    | 48    | 151   | 160    | 227    | 130    | 92    | 83    |
| 14        | 74E   | 59     | 59    | 50    | 73    | 68    | 172   | 158    | 233    | 118    | 92    | 82    |
| 15        | 74E   | 55     | 58    | 49    | 64    | 88    | 167   | 165    | 240    | 111    | 94    | 82    |
| 16        | 76E   | 55     | 57    | 49    | 60    | 79    | 154   | 183    | 237    | 111    | 91    | 82    |
| 17        | 78E   | 58     | 58    | 47    | 59    | 83    | 141   | 200    | 251    | 121    | 89    | 85    |
| 18        | 78E   | 60     | 56    | 41    | 56    | 94    | 122   | 178    | 230    | 125    | 92    | 103   |
| 19        | 80E   | 61     | 55    | 39    | 58    | 83    | 132   | 176    | 275    | 126    | 94    | 80    |
| 20        | 72    | 58     | 56    | 39    | 75    | 65    | 135   | 183    | 284    | 116    | 94    | 83    |
| 21        | 74    | 60     | 56    | 40    | 94    | 66    | 131   | 189    | 297    | 112    | 92    | 82    |
| 22        | 74    | 61     | 56    | 40    | 98    | 73    | 135   | 190    | 298    | 111    | 92    | 80    |
| 23        | 73    | 57     | 56    | 40    | 108   | 92    | 142   | 194    | 266    | 111    | 89    | 79    |
| 24        | 74    | 59     | 53    | 41    | 128   | 94    | 148   | 214    | 196    | 112    | 89    | 79    |
| 25        | 72    | 58     | 62    | 40    | 146   | 79    | 156   | 195    | 212    | 113    | 90    | 79    |
| 26        | 69    | 56     | 56    | 42    | 176   | 77    | 169   | 190    | 183    | 112    | 89    | 79    |
| 27        | 69    | 55     | 58    | 53    | 169   | 71    | 161   | 177    | 156    | 109    | 89    | 80    |
| 28        | 70    | 55     | 57    | 80    | 150   | 80    | 171   | 179    | 153    | 109    | 88    | 80    |
| 29        | 67    | 55     | 58    | 99    | 101   | 80    | 172   | 201    | 151    | 109    | 88    | 80    |
| 30        | 64    | -----  | 57    | 107   | 128   | 74    | 163   | 219    | 147    | 106    | 87    | 79    |
| 31        | 62    | -----  | 57    | ----- | 164   | ----- | 168   | 197    | -----  | 105    | ----- | 78    |
| TOTAL     | 2,219 | 1,719  | 1,794 | 1,600 | 2,864 | 2,338 | 3,869 | 5,573  | 6,710  | 3,803  | 2,805 | 2,566 |
| MEAN      | 71.6  | 59.3   | 57.9  | 53.3  | 92.4  | 77.9  | 125   | 180    | 224    | 123    | 93.5  | 82.8  |
| MAX       | 80    | 67     | 62    | 107   | 176   | 119   | 172   | 219    | 298    | 141    | 103   | 103   |
| MIN       | 62    | 55     | 53    | 39    | 56    | 44    | 67    | 158    | 147    | 105    | 87    | 78    |
| AC-FT     | 4,400 | 3,410  | 3,560 | 3,170 | 5,680 | 4,640 | 7,670 | 11,050 | 13,310 | 7,540  | 5,560 | 5,090 |
| YEAR 1996 | TOTAL | 37,860 | MEAN  | 103   | MAX   | 298   | MIN   | 39     | AC-FT  | 75,100 |       |       |

# NORTH PLATTE RIVER BASIN

**SHORT LINE CANAL from North Platte River, 00133000 - 1996**

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1916, 1920 - present

REMARKS.--E indicates estimated daily discharge.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV | DEC |
|-----------|-----|-----|-----|-------|-------|-------|-------|-------|-------|-----|-----|-----|
| 1         |     |     |     | 0     | 14    | 10    | 41    | 40    | 9.7   |     |     |     |
| 2         |     |     |     | 0     | 26    | 10    | 39    | 38    | 9.7   |     |     |     |
| 3         |     |     |     | 0     | 36    | 9.9   | 30    | 40    | 9.5   |     |     |     |
| 4         |     |     |     | 0     | 36    | 15    | 33    | 41    | 8.3   |     |     |     |
| 5         |     |     |     | 0     | 35    | 18    | 39    | 41    | 8.3   |     |     |     |
| 6         |     |     |     | 0     | 30    | 18    | 36    | 38    | 9.1   |     |     |     |
| 7         |     |     |     | 0     | 37    | 18    | 35    | 39    | 8.1   |     |     |     |
| 8         |     |     |     | 0     | 43    | 20    | 34    | 38    | 8.3   |     |     |     |
| 9         |     |     |     | 0     | 41    | 22    | 36    | 40    | 7.6   |     |     |     |
| 10        |     |     |     | 0     | 40    | 19    | 39    | 41    | 7.5   |     |     |     |
| 11        |     |     |     | 0     | 39    | 20    | 33    | 39    | 7.4   |     |     |     |
| 12        |     |     |     | 0     | 35    | 20    | 40    | 37    | 6.6   |     |     |     |
| 13        |     |     |     | 0     | 31    | 21    | 39    | 38    | 6.4   |     |     |     |
| 14        |     |     |     | 0     | 27    | 33    | 41    | 41    | 6.3   |     |     |     |
| 15        |     |     |     | 0     | 22    | 28    | 39    | 46    | 6.3   |     |     |     |
| 16        |     |     |     | 2.7   | 18    | 23    | 35    | 48    | 5.8   |     |     |     |
| 17        |     |     |     | 15    | 25    | 30    | 31    | 52    | 6.1   |     |     |     |
| 18        |     |     |     | 18    | 25    | 39    | 32    | 40    | 6.4   |     |     |     |
| 19        |     |     |     | 16    | 32    | 32    | 40    | 41    | 4.0   |     |     |     |
| 20        |     |     |     | 18    | 40    | 25    | 39    | 28 E  | 0     |     |     |     |
| 21        |     |     |     | 22    | 27    | 28    | 35    | 20 E  | 0     |     |     |     |
| 22        |     |     |     | 23    | 20    | 33    | 36    | 20 E  | 0     |     |     |     |
| 23        |     |     |     | 23    | 23    | 38    | 35    | 19 E  | 0     |     |     |     |
| 24        |     |     |     | 23    | 24    | 39    | 36    | 18 E  | 0     |     |     |     |
| 25        |     |     |     | 25    | 25    | 35    | 39    | 18 E  | 0     |     |     |     |
| 26        |     |     |     | 16    | 24    | 32    | 40    | 17 E  | 0     |     |     |     |
| 27        |     |     |     | 20    | 16    | 27    | 35    | 16 E  | 0     |     |     |     |
| 28        |     |     |     | 25    | 14    | 36    | 37    | 16    | 0     |     |     |     |
| 29        |     |     |     | 19    | 9.4   | 29    | 37    | 23    | 0     |     |     |     |
| 30        |     |     |     | 19    | 11    | 33    | 35    | 8.8   | 0     |     |     |     |
| 31        |     |     |     | ----- | 14    | ----- | 37    | 9.1   | ----- |     |     |     |
| TOTAL     |     |     |     | 284.7 | 839.4 | 760.9 | 1,133 | 990.9 | 141.4 |     |     |     |
| MEAN      |     |     |     | 9.49  | 27.1  | 25.4  | 36.5  | 32.0  | 4.71  |     |     |     |
| MAX       |     |     |     | 25    | 43    | 39    | 41    | 52    | 9.7   |     |     |     |
| MIN       |     |     |     | 0     | 9.4   | 9.9   | 30    | 8.8   | 0     |     |     |     |
| AC-FT     |     |     |     | 565   | 1,660 | 1,510 | 2,250 | 1,970 | 280   |     |     |     |
| YEAR 1996 | MAX | 52  | MIN | 0     | AC-FT | 8,230 |       |       |       |     |     |     |

## NORTH PLATTE RIVER BASIN

## CHIMNEY ROCK CANAL from North Platte River, 00024000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1916 - present

REMARKS.--E indicates estimated daily discharge.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT   | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-------|-------|-----|
| 1         |     |       |     | 0     | 49    | 40     | 54    | 77    | 43    | 21    |       |     |
| 2         |     |       |     | 0     | 50    | 35     | 55    | 76    | 41    | 33    |       |     |
| 3         |     |       |     | 0     | 50    | 34     | 52    | 73    | 40    | 31    |       |     |
| 4         |     |       |     | 0     | 51    | 16     | 45    | 73    | 39    | 30    |       |     |
| 5         |     |       |     | 0     | 53    | 13     | 50    | 74    | 42    | 28    |       |     |
| 6         |     |       |     | 0     | 53    | 16     | 59    | 73    | 43    | 27    |       |     |
| 7         |     |       |     | 0     | 52    | 15     | 60    | 72    | 41    | 28    |       |     |
| 8         |     |       |     | 0     | 51    | 16     | 64    | 73    | 38    | 26    |       |     |
| 9         |     |       |     | 10E   | 51    | 17     | 69    | 72    | 33    | 24    |       |     |
| 10        |     |       |     | 21    | 51    | 37     | 75    | 68    | 33    | 22    |       |     |
| 11        |     |       |     | 27    | 50    | 46     | 81    | 67    | 33    | 21    |       |     |
| 12        |     |       |     | 27    | 53    | 44     | 82    | 67    | 33    | 21    |       |     |
| 13        |     |       |     | 28    | 55    | 38     | 83    | 67    | 34    | 20    |       |     |
| 14        |     |       |     | 28    | 53    | 37     | 80    | 69    | 35    | 20    |       |     |
| 15        |     |       |     | 30    | 53    | 38     | 80    | 70    | 34    | 20    |       |     |
| 16        |     |       |     | 33    | 54    | 40     | 79    | 70    | 30    | 19    |       |     |
| 17        |     |       |     | 38    | 53    | 40     | 79    | 70    | 28    | 18    |       |     |
| 18        |     |       |     | 44    | 54    | 41     | 80    | 70    | 27    | 18    |       |     |
| 19        |     |       |     | 44    | 53    | 42     | 81    | 69    | 24    | 18    |       |     |
| 20        |     |       |     | 44    | 54    | 42     | 82    | 70    | 27    | 17    |       |     |
| 21        |     |       |     | 44    | 54    | 40     | 84    | 72    | 30    | 17    |       |     |
| 22        |     |       |     | 43    | 54    | 42     | 86    | 72    | 28    | 19    |       |     |
| 23        |     |       |     | 43    | 55    | 43     | 87    | 69    | 26    | 20    |       |     |
| 24        |     |       |     | 41    | 56    | 48     | 88    | 68    | 26    | 19    |       |     |
| 25        |     |       |     | 40    | 55    | 51     | 87    | 68    | 30    | 13    |       |     |
| 26        |     |       |     | 42    | 51    | 49     | 84    | 67    | 31    | 13    |       |     |
| 27        |     |       |     | 45    | 45    | 48     | 81    | 64    | 29    | 14    |       |     |
| 28        |     |       |     | 44    | 36    | 50     | 76    | 64    | 27    | 15    |       |     |
| 29        |     |       |     | 47    | 39    | 52     | 72    | 64    | 26    | 6.7   |       |     |
| 30        |     |       |     | 49    | 46    | 50     | 73    | 60    | 15    | 0     |       |     |
| 31        |     | ----- |     | ----- | 46    | -----  | 74    | 47    | ----- | 0     | ----- |     |
| TOTAL     |     |       |     | 812   | 1,580 | 1,220  | 2,282 | 2,135 | 966   | 598.7 |       |     |
| MEAN      |     |       |     | 27.1  | 51.0  | 37.3   | 73.6  | 68.9  | 32.2  | 19.3  |       |     |
| MAX       |     |       |     | 49    | 56    | 52     | 88    | 77    | 43    | 33    |       |     |
| MIN       |     |       |     | 0     | 36    | 13     | 45    | 47    | 15    | 0     |       |     |
| AC-FT     |     |       |     | 1,610 | 3,130 | 2,220  | 4,530 | 4,230 | 1,920 | 1,190 |       |     |
| YEAR 1996 | MAX | 88    | MIN | 0     | AC-FT | 18,830 |       |       |       |       |       |     |

# NORTH PLATTE RIVER BASIN

**BAYARD CREEK near Bayard, 06683000 - 1996**

LOCATION.--SE1/4NE1/4 Sec. 5-20-52 W., Morrill County, Lat. 41° 44' 10", Long. 103° 19' 53", on right 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 right bank of stream 10 feet above concrete box flume.

DRAINAGE AREA.--No definite drainage area. This stream is a drainage canal from irrigated areas and has only a relatively small amount of surface drainage.

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

PERIOD OF RECORD.--1931 - present

REMARKS.--Published by U.S. Geological Survey up to October 1, 1979 as Bayard Sugar Factory Drain near Bayard. E indicates estimated daily discharge. Estimated daily discharges January 18, 31, February 1, 3, March 25, April 25-30, May 1-6, December 17-18. Records good except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 164 cubic feet per second September 6, gage height 2.55 feet; maximum gage height 2.58 feet December 18 due to backwater from ice; minimum daily discharge 0.86 cubic feet per second April 13.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB      | MAR  | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|----------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 17    | 15E      | 15   | 13    | 2.2E  | 36    | 12    | 70    | 83    | 17     | 26    | 21    |
| 2         | 15    | 15       | 15   | 6.7   | 2.4E  | 31    | 8.9   | 69    | 64    | 25     | 32    | 22    |
| 3         | 16    | 15E      | 15   | 2.9   | 3.0E  | 26    | 8.4   | 64    | 52    | 34     | 26    | 20    |
| 4         | 16    | 15       | 15   | 2.1   | 3.4E  | 31    | 8.7   | 52    | 41    | 32     | 25    | 20    |
| 5         | 16    | 15       | 14   | 1.8   | 3.8E  | 40    | 12    | 55    | 44    | 36     | 25    | 20    |
| 6         | 15    | 17       | 14   | 1.7   | 4.1E  | 39    | 11    | 54    | 130   | 34     | 24    | 20    |
| 7         | 15    | 19       | 14   | 1.6   | 4.5   | 19    | 16    | 52    | 85    | 34     | 24    | 20    |
| 8         | 16    | 16       | 14   | 1.5   | 6.7   | 8.0   | 10    | 50    | 53    | 32     | 23    | 20    |
| 9         | 16    | 18       | 15   | 1.1   | 9.3   | 14    | 13    | 51    | 41    | 30     | 23    | 21    |
| 10        | 16    | 17       | 15   | .93   | 11    | 33    | 16    | 55    | 38    | 30     | 23    | 22    |
| 11        | 16    | 17       | 16   | .90   | 9.9   | 43    | 10    | 52    | 38    | 31     | 23    | 22    |
| 12        | 16    | 17       | 16   | .88   | 11    | 26    | 31    | 48    | 39    | 31     | 23    | 21    |
| 13        | 17    | 16       | 16   | .86   | 11    | 3.8   | 43    | 47    | 38    | 29     | 23    | 21    |
| 14        | 17    | 16       | 17   | .87   | 9.0   | 4.1   | 35    | 45    | 36    | 34     | 23    | 21    |
| 15        | 17    | 16       | 16   | .92   | 2.9   | 5.6   | 33    | 49    | 31    | 39     | 24    | 18    |
| 16        | 17    | 16       | 16   | .94   | 1.7   | 4.7   | 29    | 46    | 30    | 39     | 23    | 19    |
| 17        | 16    | 17       | 17   | .95   | 1.2   | 4.6   | 23    | 47    | 31    | 29     | 22    | 18E   |
| 18        | 15E   | 17       | 16   | 1.1   | 2.7   | 5.0   | 22    | 45    | 45    | 26     | 23    | 18E   |
| 19        | 15    | 17       | 16   | 1.4   | 4.4   | 4.7   | 21    | 53    | 42    | 30     | 24    | 18    |
| 20        | 16    | 17       | 16   | 1.5   | 10    | 3.9   | 16    | 69    | 34    | 26     | 25    | 18    |
| 21        | 19    | 17       | 16   | .95   | 9.2   | 3.9   | 17    | 62    | 34    | 26     | 23    | 17    |
| 22        | 18    | 17       | 16   | 1.3   | 7.4   | 4.6   | 17    | 58    | 31    | 26     | 23    | 18    |
| 23        | 18    | 17       | 15   | 1.3   | 9.3   | 5.1   | 14    | 64    | 33    | 25     | 22    | 17    |
| 24        | 18    | 17       | 14   | 1.3   | 25    | 5.6   | 11    | 66    | 38    | 25     | 21    | 16    |
| 25        | 17    | 17       | 15E  | 1.3 E | 21    | 5.7   | 33    | 67    | 40    | 26     | 22    | 16    |
| 26        | 17    | 16       | 14   | 1.3 E | 37    | 5.2   | 80    | 67    | 16    | 27     | 22    | 16    |
| 27        | 17    | 16       | 14   | 1.4 E | 80    | 5.6   | 72    | 65    | 17    | 26     | 22    | 16    |
| 28        | 17    | 18       | 13   | 1.5 E | 73    | 8.8   | 67    | 68    | 17    | 26     | 22    | 17    |
| 29        | 16    | 16       | 13   | 1.8 E | 51    | 12    | 63    | 72    | 17    | 26     | 21    | 18    |
| 30        | 16    | -----    | 13   | 2.0 E | 46    | 14    | 59    | 88    | 18    | 25     | 21    | 19    |
| 31        | 16E   | -----    | 13   | ----- | 72    | ----- | 58    | 86    | ----- | 26     | ----- | 18    |
| TOTAL     | 509   | 481      | 464  | 57.80 | 545.1 | 452.9 | 670.0 | 1,836 | 1,256 | 902    | 703   | 588   |
| MEAN      | 16.4  | 16.6     | 15.0 | 1.93  | 17.6  | 15.1  | 28.1  | 59.2  | 41.9  | 29.1   | 23.4  | 19.0  |
| MAX       | 19    | 19       | 17   | 13    | 80    | 43    | 80    | 88    | 130   | 39     | 32    | 22    |
| MIN       | 15    | 15       | 13   | .86   | 1.2   | 3.8   | 8.4   | 45    | 16    | 17     | 21    | 16    |
| AC-FT     | 1,010 | 954      | 920  | 115   | 1,080 | 898   | 1,730 | 3,640 | 2,490 | 1,790  | 1,390 | 1,170 |
| YEAR 1996 | TOTAL | 8,664.80 | MEAN | 23.7  | MAX   | 130   | MIN   | .86   | AC-FT | 17,190 |       |       |



## NORTH PLATTE RIVER BASIN

## ALLIANCE CANAL from Bayard Creek, 00002000 - 1996

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

GAGE.--Continuous stage recorder and metal flume

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY    | JUN   | JUL   | AUG   | SEP   | OCT  | NOV   | DEC |
|-----------|-----|-------|-----|-------|--------|-------|-------|-------|-------|------|-------|-----|
| 1         |     |       |     | 0     | 31     | 0     | 36    | 4.9   | 7.8   | 25   |       |     |
| 2         |     |       |     | 10E   | 30     | 0     | 33    | 4.2   | 21    | 21   |       |     |
| 3         |     |       |     | 11    | 38     | 0     | 32    | 5.0   | 29    | 3.9  |       |     |
| 4         |     |       |     | 12    | 40     | 0     | 30    | 5.2   | 31    | 3.3  |       |     |
| 5         |     |       |     | 12    | 37     | 0     | 30    | 6.5   | 32    | 4.6  |       |     |
| 6         |     |       |     | 12    | 29     | 0     | 30    | 6.1   | 26    | 4.3  |       |     |
| 7         |     |       |     | 12    | 24     | 13    | 34    | 9.0   | 20    | 3.9  |       |     |
| 8         |     |       |     | 12    | 26     | 24    | 31    | 14    | 29    | 3.4  |       |     |
| 9         |     |       |     | 12    | 28     | 20    | 34    | 14    | 34    | 3.1  |       |     |
| 10        |     |       |     | 13    | 29     | 0     | 37    | 17    | 33    | 3.1  |       |     |
| 11        |     |       |     | 13    | 28     | 0     | 31    | 15    | 32    | 3.4  |       |     |
| 12        |     |       |     | 13    | 29     | 0     | 36    | 12    | 33    | 3.3  |       |     |
| 13        |     |       |     | 13    | 27     | 6.5   | 30    | 11    | 32    | 3.1  |       |     |
| 14        |     |       |     | 13    | 26     | 20    | 33    | 9.5   | 30    | 4.8  |       |     |
| 15        |     |       |     | 12    | 18     | 27    | 33    | 12    | 27    | 4.0  |       |     |
| 16        |     |       |     | 12    | 15     | 26    | 32    | 15    | 27    | 1.0  |       |     |
| 17        |     |       |     | 15    | 15     | 26    | 27    | 18    | 30    | 0    |       |     |
| 18        |     |       |     | 16    | 21     | 27    | 25    | 21    | 33    | 0    |       |     |
| 19        |     |       |     | 21    | 26     | 26    | 25    | 19    | 32    | 0    |       |     |
| 20        |     |       |     | 22    | 32     | 23    | 31    | 8.3   | 28    | 0    |       |     |
| 21        |     |       |     | 19    | 32     | 24    | 36    | 6.0   | 28    | 0    |       |     |
| 22        |     |       |     | 21    | 30     | 26    | 36    | 4.6   | 27    | 0    |       |     |
| 23        |     |       |     | 20    | 30     | 28    | 34    | 7.4   | 29    | 0    |       |     |
| 24        |     |       |     | 20    | 40     | 29    | 32    | 7.9   | 31    | 0    |       |     |
| 25        |     |       |     | 23    | 39     | 29    | 28    | 8.6   | 33    | 0    |       |     |
| 26        |     |       |     | 24    | 44     | 28    | 5.1   | 9.1   | 16    | 0    |       |     |
| 27        |     |       |     | 22    | 21     | 28    | 5.7   | 7.9   | 25    | 0    |       |     |
| 28        |     |       |     | 19    | 0      | 33    | 5.6   | 7.8   | 25    | 0    |       |     |
| 29        |     |       |     | 20    | 0      | 36    | 7.2   | 12    | 25    | 0    |       |     |
| 30        |     |       |     | 27    | .46    | 38    | 6.2   | 13    | 27    | 0    |       |     |
| 31        |     | ----- |     | ----- | 1.8    | ----- | 10    | 6.5   | ----- | 0    | ----- |     |
| TOTAL     |     |       |     | 471   | 787.26 | 537.5 | 835.8 | 317.5 | 832.8 | 95.2 |       |     |
| MEAN      |     |       |     | 15.7  | 25.4   | 17.9  | 27.0  | 10.2  | 27.8  | 3.07 |       |     |
| MAX       |     |       |     | 27    | 44     | 38    | 37    | 21    | 34    | 25   |       |     |
| MIN       |     |       |     | 0     | 0      | 0     | 5.1   | 4.2   | 7.8   | 0    |       |     |
| AC-FT     |     |       |     | 934   | 1,560  | 1,070 | 1,660 | 630   | 1,650 | 189  |       |     |
| YEAR 1996 | MAX | 44    | MIN | 0     | AC-FT  | 7,690 |       |       |       |      |       |     |

# NORTH PLATTE RIVER BASIN

**RED WILLOW CREEK near Bayard, 06684000 - 1996**

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

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

PERIOD OF RECORD.--1931 - present

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

E indicates estimated daily discharge. Estimated records January 18-19, 26-February 6, 26-29, March 25, June 14-18. Records good, except estimated records 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 463 cubic feet per second July 25, gage height 4.36 feet; minimum daily discharge, 46 cubic feet per second June 12.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP    | OCT    | NOV   | DEC   |
|-----------|-------|--------|-------|-------|--------|-------|-------|-------|--------|--------|-------|-------|
| 1         | 60    | 60E    | 53    | 50    | 239    | 124   | 104   | 180   | 208    | 110    | 82    | 80    |
| 2         | 61    | 58E    | 53    | 51    | 242    | 111   | 89    | 165   | 220    | 106    | 82    | 79    |
| 3         | 62    | 58E    | 53    | 54    | 235    | 100   | 78    | 142   | 202    | 101    | 81    | 79    |
| 4         | 62    | 56E    | 53    | 50    | 280    | 102   | 69    | 134   | 207    | 98     | 80    | 79    |
| 5         | 62    | 56E    | 53    | 50    | 295    | 89    | 74    | 140   | 222    | 97     | 79    | 80    |
| 6         | 63    | 54E    | 52    | 50    | 204    | 74    | 72    | 125   | 308    | 92     | 77    | 78    |
| 7         | 63    | 54     | 52    | 51    | 212    | 59    | 86    | 101   | 240    | 91     | 78    | 77    |
| 8         | 64    | 54     | 52    | 50    | 209    | 58    | 69    | 96    | 249    | 87     | 78    | 78    |
| 9         | 64    | 54     | 52    | 50    | 163    | 62    | 72    | 90    | 255    | 85     | 78    | 78    |
| 10        | 64    | 52     | 52    | 50    | 159    | 54    | 79    | 91    | 253    | 83     | 79    | 77    |
| 11        | 63    | 52     | 52    | 50    | 161    | 48    | 79    | 102   | 246    | 81     | 79    | 76    |
| 12        | 63    | 52     | 52    | 51    | 157    | 46    | 95    | 99    | 245    | 79     | 80    | 76    |
| 13        | 63    | 53     | 52    | 56    | 155    | 54    | 104   | 92    | 253    | 78     | 79    | 76    |
| 14        | 63    | 53     | 53    | 55    | 139    | 110E  | 118   | 85    | 251    | 79     | 81    | 74    |
| 15        | 63    | 52     | 52    | 54    | 127    | 140E  | 106   | 93    | 243    | 79     | 83    | 74    |
| 16        | 63    | 52     | 51    | 54    | 112    | 150E  | 97    | 258   | 240    | 84     | 84    | 75    |
| 17        | 64    | 53     | 52    | 55    | 95     | 160E  | 97    | 176   | 238    | 93     | 83    | 68    |
| 18        | 64E   | 53     | 51    | 55    | 104    | 165E  | 84    | 175   | 292    | 92     | 84    | 75    |
| 19        | 66E   | 53     | 49    | 51    | 121    | 145   | 89    | 170   | 306    | 92     | 85    | 74    |
| 20        | 72    | 53     | 50    | 53    | 153    | 119   | 97    | 151   | 282    | 91     | 86    | 72    |
| 21        | 69    | 53     | 50    | 56    | 156    | 125   | 110   | 165   | 267    | 89     | 85    | 71    |
| 22        | 69    | 54     | 50    | 52    | 138    | 131   | 112   | 163   | 247    | 90     | 85    | 71    |
| 23        | 69    | 53     | 50    | 54    | 150    | 137   | 118   | 161   | 234    | 90     | 79    | 71    |
| 24        | 69    | 53     | 49    | 56    | 217    | 119   | 110   | 172   | 241    | 91     | 77    | 69    |
| 25        | 66    | 53     | 49E   | 54    | 176    | 76    | 167   | 166   | 226    | 90     | 79    | 70    |
| 26        | 66E   | 52E    | 49    | 57    | 221    | 108   | 203   | 162   | 179    | 89     | 79    | 69    |
| 27        | 64E   | 52E    | 49    | 48    | 198    | 76    | 193   | 151   | 142    | 87     | 79    | 69    |
| 28        | 64E   | 54E    | 50    | 176   | 209    | 95    | 160   | 154   | 118    | 87     | 80    | 69    |
| 29        | 62E   | 54E    | 50    | 228   | 211    | 122   | 135   | 148   | 114    | 86     | 80    | 69    |
| 30        | 62E   | -----  | 50    | 228   | 222    | 99    | 131   | 187   | 112    | 84     | 80    | 69    |
| 31        | 60E   | -----  | 50    | ----- | 204    | ----- | 128   | 209   | -----  | 84     | ----- | 69    |
| TOTAL     | 1,989 | 1,560  | 1,585 | 2,049 | 5,664  | 3,058 | 3,325 | 4,503 | 6,840  | 2,765  | 2,421 | 2,291 |
| MEAN      | 64.2  | 53.8   | 51.1  | 68.3  | 183    | 102   | 107   | 145   | 228    | 89.2   | 80.7  | 73.9  |
| MAX       | 72    | 60     | 53    | 228   | 295    | 165   | 203   | 258   | 308    | 110    | 86    | 80    |
| MIN       | 60    | 52     | 49    | 48    | 95     | 46    | 69    | 85    | 112    | 78     | 77    | 68    |
| AC-FT     | 3,950 | 3,090  | 3,140 | 4,060 | 11,230 | 6,070 | 6,600 | 8,930 | 13,570 | 5,480  | 4,800 | 4,540 |
| YEAR 1996 | TOTAL | 38,050 | MEAN  | 104   | MAX    | 308   | MIN   | 46    | AC-FT  | 75,470 |       |       |

## NORTH PLATTE RIVER BASIN

## ALLIANCE CANAL from Red Willow Creek, 00003000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL     | AUG     | SEP   | OCT   | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|---------|---------|-------|-------|-------|-----|
| 1         |     |       |     | 0     | 19    | 0      | 42      | 3.9     | 47    | 16    |       |     |
| 2         |     |       |     | 0     | 18    | 0      | 46      | 13      | 43    | 15    |       |     |
| 3         |     |       |     | 0     | 16    | 14     | 41      | 33      | 39    | 15    |       |     |
| 4         |     |       |     | 0     | 22    | 23     | 38      | 40      | 42    | 14    |       |     |
| 5         |     |       |     | 0     | 18    | 26     | 55      | 45      | 39    | 14    |       |     |
| 6         |     |       |     | 0     | 1.3   | 20     | 58      | 44      | 37    | 15    |       |     |
| 7         |     |       |     | 0     | 1.1   | 15     | 50      | 49      | 26    | 16    |       |     |
| 8         |     |       |     | 0     | 10    | 19     | 47      | 48      | 37    | 15    |       |     |
| 9         |     |       |     | 0     | 43    | 15     | 49      | 49      | 33    | 15    |       |     |
| 10        |     |       |     | 0     | 40    | 20     | 54      | 55      | 31    | 17    |       |     |
| 11        |     |       |     | 0     | 40    | 21     | 53      | 53      | 27    | 18    |       |     |
| 12        |     |       |     | 0     | 44    | 20     | 53      | 53      | 29    | 18    |       |     |
| 13        |     |       |     | 0     | 50    | 23     | 56      | 50      | 30    | 18    |       |     |
| 14        |     |       |     | 0     | 42    | 35     | 59      | 46      | 24    | 18    |       |     |
| 15        |     |       |     | 0     | 44    | 27     | 48      | 49      | 18    | 19    |       |     |
| 16        |     |       |     | 0     | 37    | 33     | 61      | 5.7     | 19    | 21    |       |     |
| 17        |     |       |     | 0     | 45    | 30     | 54      | 15      | 23    | 9.0   |       |     |
| 18        |     |       |     | 0     | 55    | 25     | 51      | 25      | 26    | 3.0   |       |     |
| 19        |     |       |     | 0     | 50    | 16     | 55      | 30      | 24    | 0     |       |     |
| 20        |     |       |     | 0     | 54    | 25     | 57      | 44      | 18    | 0     |       |     |
| 21        |     |       |     | 0     | 42    | 30     | 55      | 46      | 15    | 0     |       |     |
| 22        |     |       |     | 0     | 40    | 36     | 57      | 51      | 13    | 0     |       |     |
| 23        |     |       |     | 0     | 37    | 40     | 59      | 52      | 16    | 0     |       |     |
| 24        |     |       |     | 0     | 5.2   | 26     | 53      | 46      | 17    | 0     |       |     |
| 25        |     |       |     | 0     | 5.1   | 29     | 38      | 47      | 13    | 0     |       |     |
| 26        |     |       |     | 0     | 4.9   | 38     | 3.7     | 50      | 18    | 0     |       |     |
| 27        |     |       |     | 7.0   | 4.8   | 29     | 15      | 54      | 12    | 0     |       |     |
| 28        |     |       |     | 0     | 1.7   | 37     | 29      | 51      | 17    | 0     |       |     |
| 29        |     |       |     | 0     | 0     | 36     | 46      | 48      | 17    | 0     |       |     |
| 30        |     | ----- |     | 9.5   | 0     | 35     | 50      | 50      | 16    | 0     |       |     |
| 31        |     | ----- |     | ----- | 0     | -----  | 39      | 48      | ----- | 0     | ----- |     |
| TOTAL     |     |       |     | 16.5  | 790.1 | 743    | 1,471.7 | 1,293.6 | 766   | 276.0 |       |     |
| MEAN      |     |       |     | .55   | 25.5  | 24.8   | 47.5    | 41.7    | 25.5  | 8.90  |       |     |
| MAX       |     |       |     | 9.5   | 55    | 40     | 61      | 55      | 47    | 21    |       |     |
| MIN       |     |       |     | 0     | 0     | 0      | 3.7     | 3.9     | 12    | 0     |       |     |
| AC-FT     |     |       |     | 33    | 1,570 | 1,470  | 2,920   | 2,570   | 1,520 | 547   |       |     |
| YEAR 1996 | MAX | 61    | MIN | 0     | AC-FT | 10,630 |         |         |       |       |       |     |

# NORTH PLATTE RIVER BASIN

**BELMONT CANAL from North Platte River, 00009000 - 1996**

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

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

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

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT   | NOV | DEC   |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-------|-----|-------|
| 1         |     |       |     | 0     | 88    | 67     | 104   | 116   | 89    | 76    |     |       |
| 2         |     |       |     | 0     | 78    | 60     | 79    | 115   | 88    | 75    |     |       |
| 3         |     |       |     | 0     | 75    | 71     | 88    | 113   | 84    | 73    |     |       |
| 4         |     |       |     | 0     | 105   | 80     | 96    | 114   | 85    | 69    |     |       |
| 5         |     |       |     | 0     | 63    | 76     | 107   | 113   | 83    | 67    |     |       |
| 6         |     |       |     | 0     | 41    | 68     | 105   | 114   | 83    | 65    |     |       |
| 7         |     |       |     | 0     | 47    | 65     | 106   | 112   | 83    | 64    |     |       |
| 8         |     |       |     | 0     | 50    | 70     | 107   | 113   | 84    | 40    |     |       |
| 9         |     |       |     | 0     | 50    | 68     | 107   | 115   | 77    | 20    |     |       |
| 10        |     |       |     | 0     | 54    | 67     | 110   | 117   | 73    | 5.7   |     |       |
| 11        |     |       |     | 0     | 59    | 78     | 111   | 116   | 73    | 0     |     |       |
| 12        |     |       |     | 0     | 55    | 84     | 108   | 115   | 73    | 0     |     |       |
| 13        |     |       |     | 0     | 53    | 74     | 118   | 114   | 74    | 0     |     |       |
| 14        |     |       |     | 0     | 60    | 82     | 118   | 114   | 75    | 0     |     |       |
| 15        |     |       |     | 0     | 71    | 85     | 107   | 116   | 75    | 0     |     |       |
| 16        |     |       |     | 0     | 70    | 87     | 105   | 118   | 76    | 0     |     |       |
| 17        |     |       |     | 0     | 69    | 91     | 103   | 118   | 78    | 0     |     |       |
| 18        |     |       |     | 0     | 68    | 88     | 102   | 115   | 76    | 0     |     |       |
| 19        |     |       |     | 0     | 67    | 90     | 113   | 115   | 74    | 0     |     |       |
| 20        |     |       |     | 0     | 69    | 98     | 113   | 116   | 77    | 0     |     |       |
| 21        |     |       |     | 0     | 71    | 93     | 113   | 103   | 76    | 0     |     |       |
| 22        |     |       |     | 0     | 76    | 91     | 115   | 94    | 75    | 0     |     |       |
| 23        |     |       |     | 0     | 86    | 93     | 115   | 95    | 75    | 0     |     |       |
| 24        |     |       |     | 0     | 91    | 95     | 117   | 95    | 73    | 0     |     |       |
| 25        |     |       |     | 0     | 93    | 94     | 118   | 93    | 73    | 0     |     |       |
| 26        |     |       |     | 0     | 88    | 94     | 119   | 92    | 73    | 0     |     |       |
| 27        |     |       |     | 0     | 79    | 98     | 116   | 96    | 76    | 0     |     |       |
| 28        |     |       |     | 0     | 78    | 96     | 117   | 96    | 76    | 0     |     |       |
| 29        |     |       |     | 0     | 79    | 97     | 116   | 96    | 76    | 0     |     |       |
| 30        |     | ----- |     | 39    | 78    | 103    | 116   | 95    | 76    | 0     |     |       |
| 31        |     | ----- |     | ----- | 73    | -----  | 114   | 90    | ----- | 0     |     | ----- |
| TOTAL     |     |       |     | 39    | 2,184 | 2,503  | 3,383 | 3,342 | 2,329 | 554.7 |     |       |
| MEAN      |     |       |     | 1.30  | 70.5  | 83.4   | 109   | 108   | 77.6  | 17.9  |     |       |
| MAX       |     |       |     | 39    | 105   | 103    | 119   | 118   | 89    | 76    |     |       |
| MIN       |     |       |     | 0     | 41    | 60     | 79    | 90    | 73    | 0     |     |       |
| AC-FT     |     |       |     | 77    | 4,330 | 4,960  | 6,710 | 6,630 | 4,620 | 1,100 |     |       |
| YEAR 1996 | MAX | 119   | MIN | 0     | AC-FT | 28,430 |       |       |       |       |     |       |

## NORTH PLATTE RIVER BASIN

## EMPIRE CANAL from North Platte River, 00039000 - 1996

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

S indicates days of submergence; E indicates estimated daily discharge.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT  | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|------|-------|-----|
| 1         |     |       |     |       | 0     | 0     | 28    | 14    | 10    | 1.4  |       |     |
| 2         |     |       |     |       | 0     | 0     | 27    | 17    | 10    | 1.1  |       |     |
| 3         |     |       |     |       | 0     | 0     | 25    | 17    | 10    | 1.1  |       |     |
| 4         |     |       |     |       | 0     | 0     | 25    | 17    | 10    | 1.0  |       |     |
| 5         |     |       |     |       | 0     | 0     | 26    | 17    | 10    | .98  |       |     |
| 6         |     |       |     |       | 0     | 0     | 28    | 16    | 10    | .89  |       |     |
| 7         |     |       |     |       | 11E   | 0     | 28    | 16    | 9.3   | .62  |       |     |
| 8         |     |       |     |       | 18E   | 0     | 20    | 16    | 9.1   | 0    |       |     |
| 9         |     |       |     |       | 19E   | 0     | 19    | 16    | 19    | 0    |       |     |
| 10        |     |       |     |       | 19E   | 0     | 20    | 16    | 24    | 0    |       |     |
| 11        |     |       |     |       | 19E   | 0     | 26    | 16    | 24    | 0    |       |     |
| 12        |     |       |     |       | 20E   | 0     | 33    | 17    | 24    | 0    |       |     |
| 13        |     |       |     |       | 22    | 0     | 34S   | 17    | 24    | 0    |       |     |
| 14        |     |       |     |       | 13    | 0     | 34S   | 17    | 24    | 0    |       |     |
| 15        |     |       |     |       | 0     | 0     | 34S   | 17    | 24    | 0    |       |     |
| 16        |     |       |     |       | 0     | 0     | 31    | 17    | 31 S  | 0    |       |     |
| 17        |     |       |     |       | 0     | 0     | 29    | 17    | 33 S  | 0    |       |     |
| 18        |     |       |     |       | 0     | 0     | 29    | 17    | 30 S  | 0    |       |     |
| 19        |     |       |     |       | 0     | 0     | 30    | 17    | 27 S  | 0    |       |     |
| 20        |     |       |     |       | 0     | 0     | 30    | 17    | 20 S  | 0    |       |     |
| 21        |     |       |     |       | 0     | 0     | 30    | 23 S  | 4.0   | 0    |       |     |
| 22        |     |       |     |       | 0     | 0     | 30    | 31 S  | 4.1   | 0    |       |     |
| 23        |     |       |     |       | 0     | 0     | 30    | 34    | 3.9   | 0    |       |     |
| 24        |     |       |     |       | 0     | 16 S  | 30    | 31 S  | 3.8   | 0    |       |     |
| 25        |     |       |     |       | 0     | 21 S  | 30    | 31 S  | 3.8   | 0    |       |     |
| 26        |     |       |     |       | 0     | 19 S  | 33    | 31 S  | 3.8   | 0    |       |     |
| 27        |     |       |     |       | 0     | 15 S  | 33    | 17 S  | 2.6   | 0    |       |     |
| 28        |     |       |     |       | 0     | .60   | 33    | 9.1   | 1.7   | 0    |       |     |
| 29        |     |       |     |       | 0     | .57   | 27S   | 10    | 1.5   | 0    |       |     |
| 30        |     | ----- |     |       | 0     | 14    | 22    | 11    | 1.5   | 0    |       |     |
| 31        |     | ----- |     | ----- | 0     | ----- | 17    | 11    | ----- | 0    | ----- |     |
| TOTAL     |     |       |     |       | 141   | 86.17 | 873   | 570.1 | 413.1 | 7.09 |       |     |
| MEAN      |     |       |     |       | 4.55  | 2.87  | 28.2  | 18.4  | 13.8  | .23  |       |     |
| MAX       |     |       |     |       | 22    | 21    | 34    | 34    | 33    | 1.4  |       |     |
| MIN       |     |       |     |       | 0     | 0     | 17    | 9.1   | 1.5   | 0    |       |     |
| AC-FT     |     |       |     |       | 280   | 171   | 1,730 | 1,130 | 819   | 14   |       |     |
| YEAR 1996 | MAX | 34    | MIN | 0     | AC-FT | 4,150 |       |       |       |      |       |     |

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at Bridgeport, 06684500 - 1996

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

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

GAGE.--Main channel: Continuous stage recorder. Datum is 3,656.14 feet National Geodetic Vertical Datum of 1929.  
 Browns Creek channel: Continuous stage recorder. Datum is 3,663.51 feet National Geodetic Vertical Datum of 1929.

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991.  
 E indicates estimated daily discharge. Estimated records January 18-February 9, April 28, December 17-31. Records good including estimated record April 28; other estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 4,620 cubic feet per second June 16, combined flow for both channels; minimum daily discharge 498 cubic feet per second July 9, combined flow for both channels.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR    | APR    | MAY    | JUN     | JUL    | AUG    | SEP     | OCT     | NOV    | DEC    |
|-----------|--------|---------|--------|--------|--------|---------|--------|--------|---------|---------|--------|--------|
| 1         | 964    | 940E    | 896    | 801    | 998    | 3,450   | 1,080  | 1,000  | 1,550   | 1,750   | 1,220  | 1,060  |
| 2         | 950    | 960E    | 917    | 796    | 1,080  | 3,560   | 865    | 1,000  | 1,550   | 1,680   | 1,220  | 1,060  |
| 3         | 965    | 980E    | 915    | 785    | 1,070  | 3,580   | 769    | 975    | 1,590   | 1,650   | 1,210  | 1,040  |
| 4         | 996    | 980E    | 910    | 782    | 1,070  | 3,770   | 660    | 896    | 1,560   | 1,620   | 1,190  | 1,020  |
| 5         | 1,010  | 1,000E  | 897    | 783    | 1,200  | 3,800   | 637    | 914    | 1,600   | 1,570   | 1,180  | 1,010  |
| 6         | 988    | 1,060E  | 884    | 775    | 1,210  | 3,870   | 593    | 894    | 1,860   | 1,540   | 1,180  | 1,010  |
| 7         | 977    | 1,060E  | 866    | 770    | 1,200  | 3,810   | 609    | 824    | 1,930   | 1,540   | 1,150  | 965    |
| 8         | 1,020  | 1,040E  | 865    | 759    | 1,110  | 3,810   | 529    | 805    | 1,860   | 1,520   | 1,120  | 969    |
| 9         | 999    | 1,040E  | 880    | 765    | 1,070  | 3,880   | 494    | 792    | 1,860   | 1,520   | 1,120  | 960    |
| 10        | 1,000  | 1,020   | 887    | 769    | 1,030  | 3,960   | 522    | 825    | 1,780   | 1,480   | 1,110  | 975    |
| 11        | 996    | 983     | 880    | 761    | 1,010  | 4,070   | 541    | 827    | 1,780   | 1,450   | 1,100  | 974    |
| 12        | 984    | 984     | 861    | 779    | 967    | 4,180   | 555    | 772    | 1,690   | 1,420   | 1,100  | 963    |
| 13        | 993    | 974     | 855    | 797    | 957    | 3,910   | 673    | 749    | 1,630   | 1,400   | 1,120  | 959    |
| 14        | 1,010  | 964     | 890    | 799    | 927    | 3,780   | 771    | 717    | 1,690   | 1,360   | 1,130  | 927    |
| 15        | 1,010  | 944     | 873    | 784    | 884    | 3,960   | 799    | 882    | 1,720   | 1,340   | 1,130  | 915    |
| 16        | 1,010  | 930     | 857    | 783    | 858    | 4,410   | 805    | 1,030  | 1,740   | 1,310   | 1,150  | 926    |
| 17        | 978    | 934     | 861    | 788    | 815    | 4,320   | 762    | 892    | 1,820   | 1,310   | 1,120  | 860E   |
| 18        | 940E   | 938     | 855    | 773    | 791    | 4,330   | 692    | 920    | 2,040   | 1,310   | 1,110  | 820E   |
| 19        | 920E   | 939     | 846    | 758    | 799    | 4,220   | 619    | 929    | 2,200   | 1,320   | 1,140  | 840E   |
| 20        | 920E   | 931     | 847    | 760    | 872    | 3,840   | 609    | 915    | 2,250   | 1,330   | 1,180  | 860E   |
| 21        | 940E   | 935     | 845    | 771    | 890    | 3,450   | 619    | 954    | 2,220   | 1,310   | 1,120  | 860E   |
| 22        | 980E   | 929     | 838    | 791    | 905    | 3,210   | 632    | 919    | 2,130   | 1,310   | 1,090  | 840E   |
| 23        | 980E   | 898     | 823    | 800    | 918    | 3,090   | 624    | 926    | 2,020   | 1,320   | 1,080  | 800E   |
| 24        | 980E   | 879     | 792    | 792    | 1,130  | 3,040   | 616    | 1,060  | 1,860   | 1,290   | 1,070  | 780E   |
| 25        | 980E   | 864     | 767    | 740    | 1,270  | 2,980   | 643    | 1,070  | 1,870   | 1,280   | 1,090  | 760E   |
| 26        | 980E   | 852     | 810    | 707    | 1,660  | 2,690   | 824    | 1,060  | 1,880   | 1,290   | 1,090  | 760E   |
| 27        | 960E   | 868     | 813    | 643    | 2,200  | 2,390   | 803    | 1,040  | 1,760   | 1,290   | 1,090  | 800E   |
| 28        | 960E   | 857     | 815    | 680E   | 2,360  | 2,060   | 816    | 1,060  | 1,730   | 1,290   | 1,100  | 820E   |
| 29        | 940E   | 879     | 804    | 783    | 2,370  | 1,860   | 830    | 1,090  | 1,750   | 1,260   | 1,090  | 840E   |
| 30        | 900E   | -----   | 797    | 880    | 2,520  | 1,670   | 823    | 1,260  | 1,770   | 1,230   | 1,080  | 860E   |
| 31        | 920E   | -----   | 803    | -----  | 3,420  | -----   | 893    | 1,440  | -----   | 1,230   | -----  | 900E   |
| TOTAL     | 30,150 | 27,562  | 26,449 | 23,154 | 39,561 | 104,950 | 21,707 | 29,437 | 54,690  | 43,520  | 33,880 | 28,133 |
| MEAN      | 973    | 950     | 853    | 772    | 1,276  | 3,498   | 700    | 950    | 1,823   | 1,404   | 1,129  | 908    |
| MAX       | 1,020  | 1,060   | 917    | 880    | 3,420  | 4,410   | 1,080  | 1,440  | 2,250   | 1,750   | 1,220  | 1,060  |
| MIN       | 900    | 852     | 767    | 643    | 791    | 1,670   | 494    | 717    | 1,550   | 1,230   | 1,070  | 760    |
| AC-FT     | 59,800 | 54,670  | 52,460 | 45,930 | 78,470 | 208,200 | 43,060 | 58,390 | 108,500 | 86,320  | 67,200 | 55,800 |
| YEAR 1996 | TOTAL  | 463,193 | MEAN   | 1,266  | MAX    | 4,410   | MIN    | 494    | AC-FT   | 918,700 |        |        |

## NORTH PLATTE RIVER BASIN

## BROWNS CREEK CANAL from North Platte River, 00019000 - 1996

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

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

PERIOD OF RECORD.--1916 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY     | JUN    | JUL   | AUG   | SEP   | OCT   | NOV   | DEC |
|-----------|-----|-------|-----|-------|---------|--------|-------|-------|-------|-------|-------|-----|
| 1         |     |       |     | 0     | 0       | 25     | 87    | 85    | 19    | 7.8   |       |     |
| 2         |     |       |     | 0     | 0       | 25     | 93    | 92    | 22    | 7.5   |       |     |
| 3         |     |       |     | 0     | 2.3     | 25     | 93    | 88    | 27    | 7.4   |       |     |
| 4         |     |       |     | 0     | 38      | 25     | 94    | 73    | 25    | 7.2   |       |     |
| 5         |     |       |     | 0     | 36      | 23     | 94    | 70    | 24    | 6.7   |       |     |
| 6         |     |       |     | 0     | 45      | 22     | 94    | 63    | 26    | 6.5   |       |     |
| 7         |     |       |     | 0     | 44      | 21     | 98    | 62    | 16    | 6.6   |       |     |
| 8         |     |       |     | 0     | 36      | 21     | 98    | 72    | 12    | 6.6   |       |     |
| 9         |     |       |     | 0     | 48      | 21     | 97    | 64    | 12    | 6.3   |       |     |
| 10        |     |       |     | 0     | 40      | 21     | 96    | 86    | 12    | 6.5   |       |     |
| 11        |     |       |     | 0     | 39      | 27     | 102   | 79    | 12    | 6.7   |       |     |
| 12        |     |       |     | 0     | 39      | 30     | 103   | 74    | 12    | 6.7   |       |     |
| 13        |     |       |     | 0     | 40      | 29     | 101   | 74    | 12    | 6.6   |       |     |
| 14        |     |       |     | 0     | 40      | 27     | 103   | 75    | 12    | 6.4   |       |     |
| 15        |     |       |     | 0     | 41      | 27     | 103   | 65    | 12    | 5.4   |       |     |
| 16        |     |       |     | 0     | 45      | 33     | 103   | 17    | 12    | 1.5   |       |     |
| 17        |     |       |     | 0     | 50      | 41     | 101   | 17    | 12    | 0     |       |     |
| 18        |     |       |     | 0     | 56      | 43     | 102   | 30    | 12    | 0     |       |     |
| 19        |     |       |     | 0     | 62      | 43     | 97    | 46    | 12    | 0     |       |     |
| 20        |     |       |     | 0     | 65      | 45     | 98    | 42    | 12    | 0     |       |     |
| 21        |     |       |     | 0     | 63      | 46     | 98    | 41    | 11    | 0     |       |     |
| 22        |     |       |     | 0     | 59      | 48     | 98    | 44    | 11    | 0     |       |     |
| 23        |     |       |     | 0     | 51      | 51     | 97    | 49    | 11    | 0     |       |     |
| 24        |     |       |     | 0     | 40      | 62     | 96    | 57    | 11    | 0     |       |     |
| 25        |     |       |     | 0     | 35      | 71     | 97    | 75    | 9.5   | 0     |       |     |
| 26        |     |       |     | 0     | 34      | 74     | 98    | 79    | 9.6   | 0     |       |     |
| 27        |     |       |     | 0     | 30      | 83     | 96    | 84    | 9.5   | 0     |       |     |
| 28        |     |       |     | 0     | 27      | 88     | 93    | 83    | 9.3   | 0     |       |     |
| 29        |     |       |     | 0     | 26      | 86     | 93    | 62    | 9.0   | 0     |       |     |
| 30        |     | ----- |     | 0     | 26      | 90     | 94    | 20    | 7.8   | 0     |       |     |
| 31        |     | ----- |     | ----- | 25      | -----  | 92    | 20    | ----- | 0     | ----- |     |
| TOTAL     |     |       |     | 0     | 1,182.3 | 1,273  | 3,009 | 1,908 | 413.7 | 102.4 |       |     |
| MEAN      |     |       |     | 0     | 38.1    | 42.4   | 97.1  | 61.5  | 13.8  | 3.30  |       |     |
| MAX       |     |       |     | 0     | 65      | 90     | 103   | 92    | 27    | 7.8   |       |     |
| MIN       |     |       |     | 0     | 0       | 21     | 87    | 17    | 7.8   | 0     |       |     |
| AC-FT     |     |       |     | 0     | 2,350   | 2,520  | 5,970 | 3,780 | 821   | 203   |       |     |
| YEAR 1996 | MAX | 103   | MIN | 0     | AC-FT   | 15,650 |       |       |       |       |       |     |

# NORTH PLATTE RIVER BASIN

**COURTHOUSE ROCK CANAL from Pumpkin Creek, 00030000 - 1996**

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

GAGE.--Continuous stage recorder and concrete box

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 0     | 4.5   | 4.7   | 3.7   |     |       |     |
| 2         |     |       |     |       | 0     | 0     | 4.4   | 4.5   | 3.6   |     |       |     |
| 3         |     |       |     |       | 0     | 0     | 4.3   | 4.1   | 4.0   |     |       |     |
| 4         |     |       |     |       | 0     | 0     | 4.3   | 4.2   | 4.6   |     |       |     |
| 5         |     |       |     |       | 0     | 0     | 4.3   | 4.6   | 4.3   |     |       |     |
| 6         |     |       |     |       | 0     | 0     | 4.3   | 4.1   | 2.1   |     |       |     |
| 7         |     |       |     |       | 0     | 0     | 1.7   | 4.0   | 0     |     |       |     |
| 8         |     |       |     |       | 0     | 0     | 1.6   | 4.0   | 0     |     |       |     |
| 9         |     |       |     |       | 0     | 0     | 4.1   | 3.9   | 0     |     |       |     |
| 10        |     |       |     |       | 0     | 0     | 4.7   | 4.3   | 0     |     |       |     |
| 11        |     |       |     |       | 0     | 0     | 4.6   | 4.1   | 0     |     |       |     |
| 12        |     |       |     |       | 0     | 0     | 4.5   | 4.0   | 0     |     |       |     |
| 13        |     |       |     |       | 0     | 0     | 4.5   | 3.9   | 0     |     |       |     |
| 14        |     |       |     |       | 0     | 0     | 4.6   | 3.9   | 0     |     |       |     |
| 15        |     |       |     |       | 0     | 0     | 4.6   | 4.2   | 0     |     |       |     |
| 16        |     |       |     |       | 0     | 0     | 5.0   | 4.6   | 0     |     |       |     |
| 17        |     |       |     |       | 0     | 0     | 4.7   | 4.4   | 0     |     |       |     |
| 18        |     |       |     |       | 0     | 0     | 4.6   | 4.3   | 0     |     |       |     |
| 19        |     |       |     |       | 0     | 0     | 4.5   | 4.1   | 0     |     |       |     |
| 20        |     |       |     |       | 0     | 0     | 4.4   | 4.1   | 0     |     |       |     |
| 21        |     |       |     |       | 0     | 0     | 4.2   | 4.0   | 0     |     |       |     |
| 22        |     |       |     |       | 0     | 0     | 4.2   | 4.1   | 0     |     |       |     |
| 23        |     |       |     |       | 0     | 0     | 4.3   | 4.1   | 0     |     |       |     |
| 24        |     |       |     |       | 0     | 0     | 4.5   | 4.0   | 0     |     |       |     |
| 25        |     |       |     |       | 0     | 0     | 4.6   | 3.9   | 0     |     |       |     |
| 26        |     |       |     |       | 0     | 0     | 5.1   | 3.8   | 0     |     |       |     |
| 27        |     |       |     |       | 0     | 1.3   | 4.7   | 3.9   | 0     |     |       |     |
| 28        |     |       |     |       | 0     | 3.6   | 4.8   | 3.9   | 0     |     |       |     |
| 29        |     |       |     |       | 0     | 4.6   | 5.2   | 3.9   | 0     |     |       |     |
| 30        |     | ----- |     |       | 0     | 4.5   | 5.0   | 4.3   | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 0     | ----- | 4.8   | 3.9   | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 0     | 14.0  | 135.6 | 127.8 | 22.3  |     |       |     |
| MEAN      |     |       |     |       | 0     | .47   | 4.37  | 4.12  | .74   |     |       |     |
| MAX       |     |       |     |       | 0     | 4.6   | 5.2   | 4.7   | 4.6   |     |       |     |
| MIN       |     |       |     |       | 0     | 0     | 1.6   | 3.8   | 0     |     |       |     |
| AC-FT     |     |       |     |       | 0     | 28    | 269   | 253   | 44    |     |       |     |
| YEAR 1996 | MAX | 5.2   | MIN | 0     | AC-FT | 594   |       |       |       |     |       |     |



## NORTH PLATTE RIVER BASIN

LAST CHANCE CANAL from Pumpkin Creek, 00080000 - 1996

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

GAGE.--Continuous stage recorder

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

REMARKS.--E indicates estimated daily discharge

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL  | AUG | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|------|-----|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 0     | .59  | 0   | 0     |     |       |     |
| 2         |     |       |     |       | 0     | 0     | .24  | 0   | 0     |     |       |     |
| 3         |     |       |     |       | 0     | 0     | .62  | 0   | 0     |     |       |     |
| 4         |     |       |     |       | 0     | 0     | .74  | 0   | 0     |     |       |     |
| 5         |     |       |     |       | 0     | 0     | 1.3  | 0   | 0     |     |       |     |
| 6         |     |       |     |       | 0     | 0     | 1.3  | 0   | 0     |     |       |     |
| 7         |     |       |     |       | 0     | 0     | 1.1  | 0   | 0     |     |       |     |
| 8         |     |       |     |       | 0     | 0     | .86  | 0   | 0     |     |       |     |
| 9         |     |       |     |       | 0     | 0     | 0    | 0   | 0     |     |       |     |
| 10        |     |       |     |       | 0     | 0     | 0    | 0   | 0     |     |       |     |
| 11        |     |       |     |       | 0     | .74   | 0    | 0   | 0     |     |       |     |
| 12        |     |       |     |       | 0     | 2.6   | 0    | 0   | 0     |     |       |     |
| 13        |     |       |     |       | 0     | 3.1   | 0    | 0   | 0     |     |       |     |
| 14        |     |       |     |       | 0     | 3.4   | 0    | 0   | 0     |     |       |     |
| 15        |     |       |     |       | 0     | 3.7   | 0    | 0   | 0     |     |       |     |
| 16        |     |       |     |       | 0     | 4.4   | 0    | 0   | 0     |     |       |     |
| 17        |     |       |     |       | 0     | 4.7   | 0    | 0   | 0     |     |       |     |
| 18        |     |       |     |       | 0     | 4.7   | 0    | 0   | 0     |     |       |     |
| 19        |     |       |     |       | 0     | 4.5   | 0    | 0   | 0     |     |       |     |
| 20        |     |       |     |       | 0     | 4.2   | 0    | 0   | 0     |     |       |     |
| 21        |     |       |     |       | 0     | 4.5   | 0    | 0   | 0     |     |       |     |
| 22        |     |       |     |       | 0     | 2.8   | 0    | 0   | 0     |     |       |     |
| 23        |     |       |     |       | 0     | .62   | 0    | 0   | 0     |     |       |     |
| 24        |     |       |     |       | 0     | .58   | 0    | 0   | 0     |     |       |     |
| 25        |     |       |     |       | 0     | 1.8 E | 0    | 0   | 0     |     |       |     |
| 26        |     |       |     |       | 0     | 3.0 E | 0    | 0   | 0     |     |       |     |
| 27        |     |       |     |       | 0     | 4.2   | 0    | 0   | 0     |     |       |     |
| 28        |     |       |     |       | 0     | 3.5   | 0    | 0   | 0     |     |       |     |
| 29        |     |       |     |       | 0     | 2.3   | 0    | 0   | 0     |     |       |     |
| 30        |     | ----- |     |       | 0     | 1.2   | 0    | 0   | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 0     | ----- | 0    | 0   | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 0     | 60.54 | 6.75 | 0   | 0     |     |       |     |
| MEAN      |     |       |     |       | 0     | 2.02  | .22  | 0   | 0     |     |       |     |
| MAX       |     |       |     |       | 0     | 4.7   | 1.3  | 0   | 0     |     |       |     |
| MIN       |     |       |     |       | 0     | 0     | 0    | 0   | 0     |     |       |     |
| AC-FT     |     |       |     |       | 0     | 120   | 13   | 0   | 0     |     |       |     |
| YEAR 1996 | MAX | 4.7   | MIN | 0     | AC-FT | 133   |      |     |       |     |       |     |

# NORTH PLATTE RIVER BASIN

MEREDITH-AMMER CANAL from Pumpkin Creek, 00088000 - 1996

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

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

PERIOD OF RECORD.--1931 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB | MAR | APR | MAY   | JUN  | JUL   | AUG  | SEP   | OCT | NOV | DEC |
|-----------|-----|-----|-----|-----|-------|------|-------|------|-------|-----|-----|-----|
| 1         |     |     |     |     | 0     | 0    | 3.3   | 3.6  | 2.4   |     |     |     |
| 2         |     |     |     |     | 0     | 0    | 3.6   | 1.9  | 2.2   |     |     |     |
| 3         |     |     |     |     | 0     | 0    | 2.4   | 1.6  | 3.3   |     |     |     |
| 4         |     |     |     |     | 0     | 0    | 1.9   | 1.9  | 4.9   |     |     |     |
| 5         |     |     |     |     | 0     | 0    | 1.6   | 2.9  | 4.7   |     |     |     |
| 6         |     |     |     |     | 0     | 0    | 1.4   | 2.5  | 2.7   |     |     |     |
| 7         |     |     |     |     | 0     | 0    | 1.1   | 2.2  | .02   |     |     |     |
| 8         |     |     |     |     | 0     | 0    | .90   | 2.0  | 0     |     |     |     |
| 9         |     |     |     |     | 0     | 0    | 2.4   | 1.7  | 0     |     |     |     |
| 10        |     |     |     |     | 0     | 0    | 2.8   | 2.2  | 0     |     |     |     |
| 11        |     |     |     |     | 0     | 0    | 2.3   | 2.2  | 0     |     |     |     |
| 12        |     |     |     |     | 0     | 0    | 1.9   | 1.9  | 0     |     |     |     |
| 13        |     |     |     |     | 0     | 2.7  | 1.9   | 2.0  | 0     |     |     |     |
| 14        |     |     |     |     | 0     | 5.1  | 1.6   | 1.8  | 0     |     |     |     |
| 15        |     |     |     |     | 0     | 5.1  | 1.4   | 1.9  | 0     |     |     |     |
| 16        |     |     |     |     | 0     | 5.1  | 2.2   | 3.5  | 0     |     |     |     |
| 17        |     |     |     |     | 2.5   | 5.1  | 2.4   | 3.0  | 0     |     |     |     |
| 18        |     |     |     |     | 4.6   | 5.1  | 1.9   | 1.8  | 0     |     |     |     |
| 19        |     |     |     |     | 4.6   | 4.3  | 1.4   | 1.8  | 0     |     |     |     |
| 20        |     |     |     |     | 5.1   | 4.4  | .84   | 2.0  | 0     |     |     |     |
| 21        |     |     |     |     | 5.6   | 4.4  | .78   | 2.3  | 0     |     |     |     |
| 22        |     |     |     |     | 5.6   | 4.2  | .63   | 2.0  | 0     |     |     |     |
| 23        |     |     |     |     | 5.6   | 3.9  | .75   | 1.6  | 0     |     |     |     |
| 24        |     |     |     |     | 5.6   | 3.8  | .82   | 1.4  | 0     |     |     |     |
| 25        |     |     |     |     | 5.6   | 3.8  | .83   | 1.3  | 0     |     |     |     |
| 26        |     |     |     |     | 5.7   | 4.7  | 1.5   | 1.3  | 0     |     |     |     |
| 27        |     |     |     |     | 5.2   | 5.4  | 1.1   | 1.3  | 0     |     |     |     |
| 28        |     |     |     |     | 4.7   | 4.5  | 1.3   | 1.3  | 0     |     |     |     |
| 29        |     |     |     |     | 4.7   | 3.6  | 1.5   | 1.2  | 0     |     |     |     |
| 30        |     |     |     |     | 4.7   | 3.4  | 1.7   | 1.7  | 0     |     |     |     |
| 31        |     |     |     |     | 1.6   |      | 1.9   | 2.3  |       |     |     |     |
| TOTAL     |     |     |     |     | 71.4  | 78.8 | 52.05 | 62.1 | 20.22 |     |     |     |
| MEAN      |     |     |     |     | 2.30  | 2.63 | 1.68  | 2.00 | .67   |     |     |     |
| MAX       |     |     |     |     | 5.7   | 5.4  | 3.6   | 3.6  | 4.9   |     |     |     |
| MIN       |     |     |     |     | 0     | 0    | .63   | 1.2  | 0     |     |     |     |
| AC-FT     |     |     |     |     | 142   | 156  | 103   | 123  | 40    |     |     |     |
| YEAR 1996 | MAX | 5.7 | MIN | 0   | AC-FT | 564  |       |      |       |     |     |     |

## NORTH PLATTE RIVER BASIN

## PUMPKIN CREEK near Bridgeport, 06685000 - 1996

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

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

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

PERIOD OF RECORD.--Feb. 1931 - present

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

E indicates estimated daily discharge. Estimated daily discharge January 1-11, 17-31, February 1-12, 16, 26-29, March 1-3, 6-9, 24-26, November 8, 16-18, 22-25, December 1-5, 7-8, 14-31. Records good, except estimated records 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 135 cubic feet per second April 30, gage height 2.19 feet; no flow many days June 28 to September 2.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB      | MAR   | APR   | MAY     | JUN    | JUL  | AUG  | SEP   | OCT   | NOV   | DEC   |
|-----------|-------|----------|-------|-------|---------|--------|------|------|-------|-------|-------|-------|
| 1         | 5.0E  | 9.0E     | 8.2E  | 14    | 100     | 40     | .74  | 0    | 0     | 33    | 8.5   | 10 E  |
| 2         | 5.5E  | 9.2E     | 10 E  | 14    | 85      | 35     | .55  | 0    | 0     | 41    | 8.5   | 10 E  |
| 3         | 6.0E  | 9.2E     | 12 E  | 13    | 82      | 33     | .49  | 0    | 1.1   | 33    | 8.9   | 9.0E  |
| 4         | 6.0E  | 9.4E     | 13    | 13    | 27      | 34     | 0    | 0    | 1.1   | 32    | 8.1   | 8.5E  |
| 5         | 7.0E  | 9.4E     | 13    | 12    | 52      | 31     | 0    | 0    | 1.1   | 30    | 7.8   | 8.0E  |
| 6         | 7.5E  | 9.5E     | 12 E  | 11    | 43      | 28     | 0    | 0    | 1.5   | 29    | 8.1   | 9.3   |
| 7         | 8.0E  | 9.6E     | 12 E  | 11    | 43      | 28     | 0    | 0    | 1.9   | 29    | 8.7   | 9.0E  |
| 8         | 8.5E  | 9.8E     | 12 E  | 12    | 54      | 28     | 0    | 0    | 2.0   | 28    | 7.5E  | 9.0E  |
| 9         | 9.0E  | 9.8E     | 13 E  | 11    | 59      | 26     | 0    | .01  | 1.9   | 3.7   | 6.8   | 9.3   |
| 10        | 9.5E  | 10 E     | 14    | 11    | 66      | 21     | 0    | 0    | 1.6   | 2.4   | 7.1   | 9.0   |
| 11        | 10 E  | 11 E     | 13    | 11    | 77      | 17     | 0    | 0    | 1.6   | 2.6   | 7.1   | 8.7   |
| 12        | 12    | 12 E     | 13    | 11    | 78      | 14     | 0    | 0    | 1.6   | 3.0   | 7.4   | 8.5   |
| 13        | 12    | 14       | 13    | 13    | 69      | 12     | 0    | .04  | 1.7   | 2.9   | 7.6   | 8.4   |
| 14        | 11    | 13       | 15    | 13    | 57      | 9.7    | 0    | .19  | 1.9   | 3.4   | 7.9   | 8.0E  |
| 15        | 15    | 13       | 15    | 13    | 44      | 9.6    | 0    | .73  | 1.9   | 3.3   | 8.9   | 8.0E  |
| 16        | 12    | 13 E     | 13    | 12    | 10      | 9.1    | 0    | .44  | 1.9   | 3.8   | 9.0E  | 7.5E  |
| 17        | 7.8E  | 13       | 14    | 12    | 7.8     | 8.9    | 0    | .22  | 2.4   | 4.0   | 8.5E  | 7.0E  |
| 18        | 7.0E  | 12       | 13    | 11    | 6.8     | 8.6    | 0    | .23  | 3.1   | 4.9   | 9.0E  | 7.0E  |
| 19        | 7.0E  | 12       | 14    | 10    | 6.9     | 9.7    | 0    | .16  | 3.7   | 5.7   | 9.4   | 7.5E  |
| 20        | 7.2E  | 12       | 15    | 11    | 7.8     | 11     | 0    | .08  | 3.4   | 6.1   | 10    | 8.0E  |
| 21        | 7.6E  | 13       | 14    | 10    | 6.5     | 11     | 0    | .08  | 3.3   | 6.6   | 10    | 8.5E  |
| 22        | 8.0E  | 13       | 14    | 9.8   | 6.8     | 6.4    | 0    | .07  | 2.9   | 6.9   | 10 E  | 8.0E  |
| 23        | 8.4E  | 13       | 14    | 9.7   | 7.4     | 6.1    | 0    | .05  | 2.7   | 7.0   | 8.5E  | 7.5E  |
| 24        | 8.6E  | 13       | 14 E  | 9.7   | 10      | 5.8    | 0    | .02  | 2.7   | 6.7   | 7.4E  | 8.0E  |
| 25        | 8.8E  | 12       | 14 E  | 9.2   | 9.3     | 3.4    | 0    | 0    | 2.7   | 6.8   | 9.0E  | 8.5E  |
| 26        | 9.0E  | 10 E     | 14 E  | 28    | 23      | 1.7    | 0    | .01  | 2.9   | 7.1   | 11    | 9.0E  |
| 27        | 9.0E  | 9.0E     | 14    | 73    | 51      | .34    | 0    | .12  | 2.7   | 6.9   | 12    | 10 E  |
| 28        | 9.0E  | 9.6E     | 14    | 86    | 47      | 0      | 0    | 0    | 2.6   | 7.2   | 12    | 9.5E  |
| 29        | 9.0E  | 9.0E     | 14    | 111   | 42      | 0      | 0    | .02  | 2.4   | 7.7   | 12    | 9.0E  |
| 30        | 9.0E  | -----    | 13    | 106   | 41      | 0      | 0    | .01  | 2.2   | 7.8   | 12    | 8.0E  |
| 31        | 9.0E  | -----    | 13    | ----- | 43      | -----  | 0    | 0    | ----- | 8.4   | ----- | 7.0E  |
| TOTAL     | 268.4 | 321.5    | 409.2 | 691.4 | 1,262.3 | 448.34 | 1.78 | 2.48 | 615.1 | 379.9 | 268.7 | 262.7 |
| MEAN      | 8.66  | 11.1     | 13.2  | 23.0  | 40.7    | 14.9   | .057 | .080 | 20.5  | 12.3  | 8.96  | 8.47  |
| MAX       | 15    | 14       | 15    | 111   | 100     | 40     | .74  | .73  | 37    | 41    | 12    | 10    |
| MIN       | 5.0   | 9.0      | 8.2   | 9.2   | 6.5     | 0      | 0    | 0    | 0     | 2.4   | 6.8   | 7.0   |
| AC-FT     | 532   | 638      | 812   | 1,370 | 2,500   | 889    | 3.5  | 4.9  | 1,220 | 754   | 533   | 521   |
| YEAR 1996 | TOTAL | 4,931.80 | MEAN  | 13.5  | MAX     | 111    | MIN  | 0    | AC-FT | 9,780 |       |       |

# NORTH PLATTE RIVER BASIN

**BEERLINE CANAL from North Platte River, 00007000 - 1996**

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

GAGE.--Continuous stage recorder and concrete flume

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

REMARKS.--E indicates estimated daily discharge.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT   | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-------|-------|-----|
| 1         |     |       |     | 0     | 0     | 0      | 0     | 15    | 14    | 1.8   |       |     |
| 2         |     |       |     | 0     | 0     | 0      | 1.9   | 15    | 14    | 1.7   |       |     |
| 3         |     |       |     | 0     | 0     | 0      | 13    | 14    | 14    | 1.7   |       |     |
| 4         |     |       |     | 0     | 0     | 0      | 12    | 12    | 14    | 1.7   |       |     |
| 5         |     |       |     | 0     | 0     | 0      | 13    | 12    | 12    | 1.7   |       |     |
| 6         |     |       |     | 0     | 0     | 0      | 18    | 12    | 8.7   | 1.6   |       |     |
| 7         |     |       |     | 0     | 0     | 0      | 17    | 11    | 9.1   | 1.6   |       |     |
| 8         |     |       |     | 0     | 0     | 0      | 17    | 10    | 9.0   | .87   |       |     |
| 9         |     |       |     | 0     | 0     | 0      | 15    | 9.7   | 8.9   | 0     |       |     |
| 10        |     |       |     | 0     | 0     | 0      | 15    | 11    | 8.7   | 0     |       |     |
| 11        |     |       |     | 0     | 0     | 0      | 15    | 11    | 8.7   | 0     |       |     |
| 12        |     |       |     | 0     | 0     | 0      | 15    | 11    | 8.7   | 0     |       |     |
| 13        |     |       |     | 0     | 0     | 0      | 17    | 10    | 8.7   | 0     |       |     |
| 14        |     |       |     | 0     | 0     | 0      | 17    | 9.6   | 8.9   | 0     |       |     |
| 15        |     |       |     | 0     | 0     | 0      | 17    | 9.7   | 9.0   | 0     |       |     |
| 16        |     |       |     | 0     | 0     | 0      | 17    | 12    | 8.8   | 0     |       |     |
| 17        |     |       |     | 0     | 0     | 3.4    | 17    | 12    | 9.0   | 0     |       |     |
| 18        |     |       |     | 0     | 0     | 15     | 15    | 12    | 9.4   | 0     |       |     |
| 19        |     |       |     | 0     | 0     | 18     | 10    | 12    | 9.6   | 0     |       |     |
| 20        |     |       |     | 0     | 0     | 14     | 13    | 12    | 6.3   | 0     |       |     |
| 21        |     |       |     | 0     | 0     | 14     | 20    | 12    | 4.0   | 0     |       |     |
| 22        |     |       |     | 0     | 0     | 15     | 19    | 12    | 4.0   | 0     |       |     |
| 23        |     |       |     | 0     | 0     | 15     | 17    | 12    | 3.9   | 0     |       |     |
| 24        |     |       |     | 0     | 0     | 14     | 16    | 12    | 3.6   | 0     |       |     |
| 25        |     |       |     | 0     | 0     | 13     | 16    | 12    | 3.0E  | 0     |       |     |
| 26        |     |       |     | 0     | 0     | 11     | 17    | 12    | 2.0E  | 0     |       |     |
| 27        |     |       |     | 0     | 0     | 8.5    | 17    | 12    | 1.9   | 0     |       |     |
| 28        |     |       |     | 0     | 0     | 6.1    | 17    | 11    | 1.9   | 0     |       |     |
| 29        |     |       |     | 0     | 0     | 2.0    | 16    | 12    | 1.8   | 0     |       |     |
| 30        |     | ----- |     | 0     | 0     | .04    | 15    | 12    | 1.8   | 0     |       |     |
| 31        |     | ----- |     | ----- | 0     | -----  | 15    | 13    | ----- | 0     | ----- |     |
| TOTAL     |     |       |     | 0     | 0     | 149.04 | 459.9 | 365.0 | 227.6 | 12.67 |       |     |
| MEAN      |     |       |     | 0     | 0     | 4.97   | 14.8  | 11.8  | 7.59  | .41   |       |     |
| MAX       |     |       |     | 0     | 0     | 18     | 20    | 15    | 14    | 1.8   |       |     |
| MIN       |     |       |     | 0     | 0     | 0      | 0     | 9.6   | 1.8   | 0     |       |     |
| AC-FT     |     |       |     | 0     | 0     | 296    | 912   | 724   | 451   | 25    |       |     |
| YEAR 1996 | MAX | 20    | MIN | 0     | AC-FT | 2,410  |       |       |       |       |       |     |

## NORTH PLATTE RIVER BASIN

## BELMONT CANAL from Cedar Creek, 00010000 - 1996

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

GAGE.--Continuous stage recorder and concrete box

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL  | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 1.2   | 2.8  | 2.5   | 1.3   |     |       |     |
| 2         |     |       |     |       | 0     | 1.1   | 2.8  | 2.1   | 1.4   |     |       |     |
| 3         |     |       |     |       | 0     | 1.1   | 2.5  | 1.4   | 1.4   |     |       |     |
| 4         |     |       |     |       | 0     | 1.3   | 2.4  | 2.5   | 1.4   |     |       |     |
| 5         |     |       |     |       | 0     | 1.2   | 2.4  | 2.7   | 1.2   |     |       |     |
| 6         |     |       |     |       | 0     | 1.5   | 2.7  | 1.8   | 1.3   |     |       |     |
| 7         |     |       |     |       | 0     | 1.6   | 2.8  | 1.8   | 1.4   |     |       |     |
| 8         |     |       |     |       | 0     | 1.6   | 2.4  | 1.6   | .53   |     |       |     |
| 9         |     |       |     |       | 0     | 1.7   | 2.5  | 2.3   | .29   |     |       |     |
| 10        |     |       |     |       | 0     | 1.8   | 1.8  | 2.6   | .35   |     |       |     |
| 11        |     |       |     |       | 0     | 2.6   | 2.3  | 2.1   | 1.12  |     |       |     |
| 12        |     |       |     |       | 0     | 2.7   | 2.4  | 1.8   | 0     |     |       |     |
| 13        |     |       |     |       | 0     | 2.9   | 3.0  | 1.7   | 0     |     |       |     |
| 14        |     |       |     |       | 0     | 2.9   | 3.2  | 2.2   | 0     |     |       |     |
| 15        |     |       |     |       | 0     | 1.0   | 2.0  | 1.9   | 0     |     |       |     |
| 16        |     |       |     |       | 1.9   | 2.8   | 2.6  | 2.0   | 0     |     |       |     |
| 17        |     |       |     |       | 2.5   | 2.1   | 2.3  | 2.5   | 0     |     |       |     |
| 18        |     |       |     |       | 2.5   | 1.4   | 2.3  | 2.1   | 0     |     |       |     |
| 19        |     |       |     |       | 3.1   | 1.3   | 2.3  | 1.1   | 0     |     |       |     |
| 20        |     |       |     |       | 3.5   | 2.2   | 2.3  | .64   | 0     |     |       |     |
| 21        |     |       |     |       | 3.7   | 2.2   | 2.1  | 1.8   | 0     |     |       |     |
| 22        |     |       |     |       | 3.3   | 2.2   | 1.5  | 2.1   | 0     |     |       |     |
| 23        |     |       |     |       | 2.6   | 2.4   | 1.2  | 1.8   | 0     |     |       |     |
| 24        |     |       |     |       | 2.2   | 1.7   | 2.1  | 2.6   | 0     |     |       |     |
| 25        |     |       |     |       | 1.9   | 1.1   | 2.6  | 2.5   | 0     |     |       |     |
| 26        |     |       |     |       | 2.4   | 2.2   | 2.5  | 1.4   | 0     |     |       |     |
| 27        |     |       |     |       | 1.8   | 2.2   | 2.1  | 1.5   | 0     |     |       |     |
| 28        |     |       |     |       | 1.5   | 2.4   | 3.2  | 2.2   | 0     |     |       |     |
| 29        |     |       |     |       | 1.7   | 2.5   | 4.0  | 2.2   | 0     |     |       |     |
| 30        |     |       |     |       | 1.8   | 2.6   | 4.7  | 1.8   | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 1.3   | ----- | 3.2  | 1.4   | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 37.7  | 57.5  | 79.0 | 60.64 | 10.69 |     |       |     |
| MEAN      |     |       |     |       | 1.22  | 1.92  | 2.55 | 1.96  | .36   |     |       |     |
| MAX       |     |       |     |       | 3.7   | 2.9   | 4.7  | 2.7   | 1.4   |     |       |     |
| MIN       |     |       |     |       | 0     | 1.0   | 1.2  | .64   | 0     |     |       |     |
| AC-FT     |     |       |     |       | 75    | 114   | 157  | 120   | 21    |     |       |     |
| YEAR 1996 | MAX | 4.7   | MIN | 0     | AC-FT | 487   |      |       |       |     |       |     |

# NORTH PLATTE RIVER BASIN

**LISCO CANAL from North Platte River, 00082000 - 1996**

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

GAGE.--Continuous stage recorder and weir

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT   | NOV   | DEC |
|-----------|-----|-----|-----|-------|-------|--------|-------|-------|-------|-------|-------|-----|
| 1         |     |     |     | 0     | 27    | 74     | 48    | 56    | 44    | 19    |       |     |
| 2         |     |     |     | 0     | 35    | 64     | 46    | 53    | 46    | 19    |       |     |
| 3         |     |     |     | 0     | 42    | 44     | 52    | 51    | 44    | 19    |       |     |
| 4         |     |     |     | 0     | 42    | 52     | 49    | 48    | 43    | 16    |       |     |
| 5         |     |     |     | 0     | 48    | 56     | 49    | 51    | 42    | 17    |       |     |
| 6         |     |     |     | 0     | 60    | 56     | 49    | 49    | 57    | 14    |       |     |
| 7         |     |     |     | 0     | 47    | 47     | 51    | 51    | 57    | 11    |       |     |
| 8         |     |     |     | 0     | 42    | 46     | 45    | 48    | 41    | 14    |       |     |
| 9         |     |     |     | 0     | 40    | 49     | 40    | 44    | 39    | 19    |       |     |
| 10        |     |     |     | 0     | 36    | 47     | 41    | 43    | 39    | 18    |       |     |
| 11        |     |     |     | 0     | 37    | 46     | 41    | 46    | 37    | 19    |       |     |
| 12        |     |     |     | 0     | 36    | 47     | 39    | 52    | 36    | 6.7   |       |     |
| 13        |     |     |     | 0     | 34    | 51     | 52    | 50    | 35    | 0     |       |     |
| 14        |     |     |     | 0     | 39    | 45     | 50    | 49    | 37    | 0     |       |     |
| 15        |     |     |     | 0     | 43    | 49     | 47    | 57    | 39    | 0     |       |     |
| 16        |     |     |     | 0     | 41    | 56     | 50    | 60    | 38    | 0     |       |     |
| 17        |     |     |     | 0     | 39    | 51     | 49    | 40    | 41    | 0     |       |     |
| 18        |     |     |     | 0     | 33    | 49     | 46    | 45    | 46    | 0     |       |     |
| 19        |     |     |     | 0     | 31    | 49     | 46    | 42    | 51    | 0     |       |     |
| 20        |     |     |     | 0     | 41    | 46     | 44    | 39    | 44    | 0     |       |     |
| 21        |     |     |     | 0     | 45    | 44     | 49    | 41    | 37    | 0     |       |     |
| 22        |     |     |     | 0     | 53    | 47     | 52    | 45    | 30    | 0     |       |     |
| 23        |     |     |     | 0     | 54    | 44     | 50    | 44    | 25    | 0     |       |     |
| 24        |     |     |     | 0     | 81    | 43     | 45    | 44    | 21    | 0     |       |     |
| 25        |     |     |     | 0     | 69    | 43     | 43    | 49    | 20    | 0     |       |     |
| 26        |     |     |     | 0     | 84    | 49     | 52    | 48    | 21    | 0     |       |     |
| 27        |     |     |     | 5.8   | 63    | 51     | 50    | 43    | 19    | 0     |       |     |
| 28        |     |     |     | 11    | 48    | 47     | 50    | 39    | 15    | 0     |       |     |
| 29        |     |     |     | 15    | 43    | 47     | 50    | 49    | 15    | 0     |       |     |
| 30        |     |     |     | 18    | 42    | 47     | 47    | 51    | 16    | 0     |       |     |
| 31        |     |     |     | ----- | 61    | -----  | 44    | 49    | ----- | 0     | ----- |     |
| TOTAL     |     |     |     | 49.8  | 1,438 | 1,488  | 1,466 | 1,476 | 1,075 | 191.7 |       |     |
| MEAN      |     |     |     | 1.66  | 46.4  | 49.6   | 47.3  | 47.6  | 35.8  | 6.18  |       |     |
| MAX       |     |     |     | 18    | 84    | 74     | 52    | 60    | 57    | 19    |       |     |
| MIN       |     |     |     | 0     | 27    | 43     | 39    | 39    | 15    | 0     |       |     |
| AC-FT     |     |     |     | 99    | 2,850 | 2,950  | 2,910 | 2,930 | 2,130 | 380   |       |     |
| YEAR 1996 | MAX | 84  | MIN | 0     | AC-FT | 14,250 |       |       |       |       |       |     |

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at Lisco, 06686000 - 1996

LOCATION.--SW1/4NE1/4 Sec. 33-18-46 W., Garden County, Lat. 41° 29' 24", Long. 102° 37' 04", on left bank 40 feet downstream of highway bridge, and 0.5 mile south of Lisco.

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

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

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994  
E indicates estimated daily discharge. Estimated daily discharges January 1-14, 17-31, February 1-14, 28-29, March 1-2, 7-8, 25-26, December 17-31. Records good except estimated records 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 3,850 cubic feet per second June 5, gage height 3.14 feet; maximum gage height 5.39 feet December 19 due to backwater from ice; minimum daily discharge 448 cubic feet per second July 22.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR    | APR    | MAY    | JUN     | JUL    | AUG    | SEP     | OCT     | NOV    | DEC    |
|-----------|--------|---------|--------|--------|--------|---------|--------|--------|---------|---------|--------|--------|
| 1         | 1,080  | 800E    | 920E   | 920    | 1,010  | 3,320   | 913    | 832    | 1,550   | 1,730   | 1,430  | 1,140  |
| 2         | 991    | 780E    | 920E   | 915    | 1,140  | 3,330   | 823    | 870    | 1,560   | 1,680   | 1,400  | 1,160  |
| 3         | 1,070  | 760E    | 911    | 909    | 1,180  | 3,470   | 733    | 887    | 1,500   | 1,690   | 1,420  | 1,170  |
| 4         | 1,090  | 720E    | 932    | 898    | 1,120  | 3,710   | 633    | 846    | 1,450   | 1,680   | 1,440  | 1,150  |
| 5         | 1,040  | 720E    | 944    | 895    | 1,140  | 3,750   | 545    | 850    | 1,380   | 1,600   | 1,450  | 1,120  |
| 6         | 900E   | 800E    | 919    | 889    | 1,270  | 3,730   | 505    | 821    | 1,490   | 1,520   | 1,450  | 1,110  |
| 7         | 800E   | 900E    | 900E   | 868    | 1,270  | 3,740   | 488    | 774    | 1,810   | 1,560   | 1,390  | 1,110  |
| 8         | 1,000E | 900E    | 900E   | 866    | 1,250  | 3,670   | 476    | 712    | 1,790   | 1,500   | 1,370  | 1,120  |
| 9         | 1,200E | 1,000E  | 947    | 883    | 1,250  | 3,670   | 463    | 663    | 1,740   | 1,440   | 1,350  | 1,170  |
| 10        | 1,400E | 1,100E  | 939    | 905    | 1,290  | 3,630   | 462    | 695    | 1,660   | 1,390   | 1,320  | 1,190  |
| 11        | 1,300E | 1,200E  | 947    | 927    | 1,240  | 3,580   | 448    | 702    | 1,610   | 1,410   | 1,300  | 1,220  |
| 12        | 1,250E | 1,100E  | 955    | 924    | 1,200  | 3,530   | 455    | 704    | 1,580   | 1,430   | 1,280  | 1,170  |
| 13        | 1,200E | 1,100E  | 965    | 956    | 1,150  | 3,540   | 458    | 683    | 1,590   | 1,440   | 1,270  | 1,140  |
| 14        | 1,100E | 1,100E  | 988    | 953    | 1,130  | 3,320   | 598    | 655    | 1,640   | 1,430   | 1,280  | 1,110  |
| 15        | 1,090  | 1,060   | 992    | 926    | 1,050  | 3,370   | 696    | 646    | 1,740   | 1,380   | 1,270  | 1,010  |
| 16        | 1,080  | 1,030   | 967    | 909    | 986    | 3,480   | 732    | 890    | 1,810   | 1,350   | 1,320  | 1,020  |
| 17        | 1,060E | 1,040   | 960    | 916    | 949    | 3,520   | 720    | 921    | 1,980   | 1,380   | 1,280  | 900E   |
| 18        | 1,020E | 1,010   | 953    | 888    | 880    | 3,480   | 660    | 912    | 2,270   | 1,400   | 1,290  | 940E   |
| 19        | 1,040E | 1,000   | 929    | 933    | 838    | 3,460   | 567    | 886    | 2,400   | 1,410   | 1,300  | 960E   |
| 20        | 1,080E | 985     | 917    | 900    | 938    | 3,310   | 505    | 867    | 2,370   | 1,410   | 1,350  | 940E   |
| 21        | 1,100E | 973     | 915    | 882    | 989    | 3,110   | 459    | 886    | 2,270   | 1,370   | 1,340  | 980E   |
| 22        | 1,060E | 982     | 924    | 875    | 1,010  | 2,850   | 448    | 913    | 2,170   | 1,360   | 1,310  | 1,000E |
| 23        | 1,000E | 989     | 923    | 874    | 1,020  | 2,670   | 471    | 910    | 2,020   | 1,370   | 1,270  | 1,020E |
| 24        | 940E   | 957     | 919    | 866    | 1,190  | 2,590   | 475    | 922    | 1,900   | 1,400   | 1,250  | 1,040E |
| 25        | 900E   | 963     | 860E   | 849    | 1,370  | 2,470   | 465    | 976    | 1,820   | 1,380   | 1,240  | 1,060E |
| 26        | 860E   | 955     | 940E   | 806    | 1,650  | 2,240   | 555    | 1,000  | 1,880   | 1,420   | 1,250  | 1,060E |
| 27        | 840E   | 904     | 922    | 805    | 2,210  | 1,960   | 675    | 1,010  | 1,870   | 1,430   | 1,230  | 1,060E |
| 28        | 840E   | 900E    | 925    | 830    | 2,470  | 1,670   | 679    | 987    | 1,790   | 1,400   | 1,190  | 1,080E |
| 29        | 840E   | 920E    | 942    | 833    | 2,540  | 1,340   | 695    | 1,090  | 1,800   | 1,400   | 1,180  | 1,100E |
| 30        | 820E   | -----   | 932    | 886    | 2,530  | 1,100   | 727    | 1,390  | 1,790   | 1,370   | 1,140  | 1,100E |
| 31        | 800E   | -----   | 925    | -----  | 2,830  | -----   | 732    | 1,510  | -----   | 1,410   | -----  | 1,120E |
| TOTAL     | 31,791 | 27,648  | 28,932 | 26,686 | 42,090 | 92,610  | 18,261 | 27,410 | 54,230  | 45,140  | 39,360 | 33,470 |
| MEAN      | 1,026  | 953     | 933    | 890    | 1,358  | 3,087   | 589    | 884    | 1,808   | 1,456   | 1,312  | 1,080  |
| MAX       | 1,400  | 1,200   | 992    | 956    | 2,830  | 3,750   | 913    | 1,510  | 2,400   | 1,730   | 1,450  | 1,220  |
| MIN       | 800    | 720     | 860    | 805    | 838    | 1,100   | 448    | 646    | 1,380   | 1,350   | 1,140  | 900    |
| AC-FT     | 63,060 | 54,840  | 57,390 | 52,930 | 83,490 | 183,700 | 36,220 | 54,370 | 107,600 | 89,540  | 78,070 | 66,390 |
| YEAR 1996 | TOTAL  | 467,628 | MEAN   | 1,278  | MAX    | 3,750   | MIN    | 448    | AC-FT   | 927,500 |        |        |

# NORTH PLATTE RIVER BASIN

**MIDLAND-OVERLAND CANAL from North Platte River, 00098000 - 1996**

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

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

PERIOD OF RECORD.--1924 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB | MAR | APR | MAY    | JUN    | JUL   | AUG   | SEP    | OCT | NOV | DEC |
|-----------|-----|-----|-----|-----|--------|--------|-------|-------|--------|-----|-----|-----|
| 1         |     |     |     | 0   | 0      | .70    | 13    | 4.9   | 12     | 0   |     |     |
| 2         |     |     |     | 0   | 0      | .68    | 8.0   | 2.2   | 9.6    | 0   |     |     |
| 3         |     |     |     | 0   | 0      | .56    | 5.3   | 2.2   | 4.0    | 0   |     |     |
| 4         |     |     |     | 0   | 0      | .55    | 15    | 2.1   | 5.1    | 0   |     |     |
| 5         |     |     |     | 0   | .27    | .55    | 11    | 6.4   | 4.2    | 0   |     |     |
| 6         |     |     |     | 0   | 11     | .55    | 9.6   | 6.9   | 3.2    | 0   |     |     |
| 7         |     |     |     | 0   | 21     | .55    | 11    | 6.7   | 4.4    | 0   |     |     |
| 8         |     |     |     | 0   | 27     | .55    | 12    | 6.0   | 3.7    | 0   |     |     |
| 9         |     |     |     | 0   | 24     | .55    | 11    | 10    | 3.3    | 0   |     |     |
| 10        |     |     |     | 0   | 14     | .55    | 10    | 11    | 3.0    | 0   |     |     |
| 11        |     |     |     | 0   | 2.6    | .55    | 6.3   | 5.8   | 2.6    | 0   |     |     |
| 12        |     |     |     | 0   | 6.4    | 3.9    | 6.1   | 7.6   | 2.4    | 0   |     |     |
| 13        |     |     |     | 0   | 7.9    | .6.0   | 5.8   | 6.8   | 2.5    | 0   |     |     |
| 14        |     |     |     | 0   | 6.6    | 6.7    | 6.1   | 5.0   | 2.8    | 0   |     |     |
| 15        |     |     |     | 0   | 5.4    | 8.2    | 9.4   | 4.4   | 4.1    | 0   |     |     |
| 16        |     |     |     | 0   | .70    | 10     | 9.1   | 5.1   | 4.8    | 0   |     |     |
| 17        |     |     |     | 0   | .59    | 10     | 6.6   | 8.8   | 5.4    | 0   |     |     |
| 18        |     |     |     | 0   | .33    | 11     | 6.2   | 4.4   | 8.5    | 0   |     |     |
| 19        |     |     |     | 0   | .13    | 20     | 6.0   | 6.4   | 6.6    | 0   |     |     |
| 20        |     |     |     | 0   | .32    | 27     | 3.9   | 6.6   | 5.9    | 0   |     |     |
| 21        |     |     |     | 0   | .49    | 23     | 2.4   | 3.5   | 4.2    | 0   |     |     |
| 22        |     |     |     | 0   | .55    | 22     | 3.0   | 3.7   | 2.9    | 0   |     |     |
| 23        |     |     |     | 0   | .55    | 21     | 3.8   | 6.8   | 2.4    | 0   |     |     |
| 24        |     |     |     | 0   | .55    | 17     | 4.5   | 11    | 2.1    | 0   |     |     |
| 25        |     |     |     | 0   | .56    | 14     | 9.9   | 6.7   | 1.7    | 0   |     |     |
| 26        |     |     |     | 0   | .78    | 11     | 13    | 3.7   | 1.1    | 0   |     |     |
| 27        |     |     |     | 0   | 2.0    | 10     | 15    | 7.6   | .78    | 0   |     |     |
| 28        |     |     |     | 0   | 5.2    | 7.3    | 17    | 6.8   | .67    | 0   |     |     |
| 29        |     |     |     | 0   | 5.9    | 10     | 18    | 11    | .58    | 0   |     |     |
| 30        |     |     |     | 0   | 4.8    | 16     | 17    | 13    | .55    | 0   |     |     |
| 31        |     |     |     | 0   | 1.1    | -----  | 8.0   | 12    | -----  | 0   |     |     |
| TOTAL     |     |     |     | 0   | 150.72 | 260.44 | 283.0 | 205.1 | 115.08 | 0   |     |     |
| MEAN      |     |     |     | 0   | 4.86   | 8.68   | 9.13  | 6.62  | 3.84   | 0   |     |     |
| MAX       |     |     |     | 0   | 27     | 27     | 18    | 13    | 12     | 0   |     |     |
| MIN       |     |     |     | 0   | 0      | .55    | 2.4   | 2.1   | .55    | 0   |     |     |
| AC-FT     |     |     |     | 0   | 299    | 517    | 561   | 407   | 228    | 0   |     |     |
| YEAR 1996 | MAX | 27  | MIN | 0   | AC-FT  | 2,010  |       |       |        |     |     |     |



## NORTH PLATTE RIVER BASIN

## PAISLEY CANAL from Blue Creek, 00120000 - 1996

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

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

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP    | OCT  | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|--------|------|-------|-----|
| 1         |     |       |     | 0     | 0     | 7.6   | 15    | 16    | 0      | 11   |       |     |
| 2         |     |       |     | 0     | 0     | 7.4   | 14    | 12    | 0      | 9.9  |       |     |
| 3         |     |       |     | 0     | 0     | 6.9   | 14    | 11    | 0      | 9.4  |       |     |
| 4         |     |       |     | 0     | 0     | 7.7   | 16    | 13    | .87    | 8.5  |       |     |
| 5         |     |       |     | 0     | 0     | 5.9   | 15    | 15    | 9.0    | 7.9  |       |     |
| 6         |     |       |     | 0     | 0     | 5.9   | 15    | 15    | 14     | 4.7  |       |     |
| 7         |     |       |     | 0     | 0     | 3.3   | 15    | 14    | 16     | 1.5  |       |     |
| 8         |     |       |     | 0     | 0     | 1.9   | 15    | 14    | 16     | 0    |       |     |
| 9         |     |       |     | 0     | 0     | 1.4   | 15    | 14    | 15     | 0    |       |     |
| 10        |     |       |     | 0     | 0     | 1.2   | 16    | 14    | 16     | 0    |       |     |
| 11        |     |       |     | 0     | 0     | 1.3   | 15    | 13    | 19     | 0    |       |     |
| 12        |     |       |     | 0     | 0     | 4.8   | 15    | 14    | 19     | 0    |       |     |
| 13        |     |       |     | 0     | 0     | 7.1   | 15    | 13    | 19     | 0    |       |     |
| 14        |     |       |     | 0     | 0     | 8.6   | 15    | 14    | 19     | 0    |       |     |
| 15        |     |       |     | 0     | 0     | 15    | 11    | 14    | 20     | 0    |       |     |
| 16        |     |       |     | 0     | 0     | 22    | 0     | 11    | 21     | 0    |       |     |
| 17        |     |       |     | 0     | 0     | 22    | 0     | 6.4   | 20     | 0    |       |     |
| 18        |     |       |     | 0     | 0     | 20    | 0     | 6.6   | 14     | 0    |       |     |
| 19        |     |       |     | 0     | 0     | 19    | 0     | 6.0   | 10     | 0    |       |     |
| 20        |     |       |     | 0     | 0     | 19    | 4.3   | 5.2   | 12     | 0    |       |     |
| 21        |     |       |     | 0     | 0     | 20    | 6.0   | 4.8   | 13     | 0    |       |     |
| 22        |     |       |     | 0     | 0     | 21    | 11    | 9.8   | 12     | 0    |       |     |
| 23        |     |       |     | 0     | 9.9   | 21    | 14    | 12    | 12     | 0    |       |     |
| 24        |     |       |     | 0     | 13    | 20    | 12    | 13    | 12     | 0    |       |     |
| 25        |     |       |     | 0     | 11    | 19    | 12    | 13    | 12     | 0    |       |     |
| 26        |     |       |     | 0     | 17    | 17    | 13    | 13    | 12     | 0    |       |     |
| 27        |     |       |     | 0     | 17    | 15    | 12    | 12    | 12     | 0    |       |     |
| 28        |     |       |     | 0     | 14    | 15    | 12    | 12    | 12     | 0    |       |     |
| 29        |     |       |     | 0     | 12    | 16    | 12    | 2.0   | 11     | 0    |       |     |
| 30        |     | ----- |     | 0     | 8.4   | 16    | 12    | 0     | 11     | 0    |       |     |
| 31        |     | ----- |     | ----- | 7.5   | ----- | 14    | 0     | -----  | 0    | ----- |     |
| TOTAL     |     |       |     | 0     | 109.8 | 368.0 | 355.3 | 332.8 | 378.87 | 52.9 |       |     |
| MEAN      |     |       |     | 0     | 3.54  | 12.3  | 11.5  | 10.7  | 12.6   | 1.71 |       |     |
| MAX       |     |       |     | 0     | 17    | 22    | 16    | 16    | 21     | 11   |       |     |
| MIN       |     |       |     | 0     | 0     | 1.2   | 0     | 0     | 0      | 0    |       |     |
| AC-FT     |     |       |     | 0     | 218   | 730   | 705   | 660   | 751    | 105  |       |     |
| YEAR 1996 | MAX | 22    | MIN | 0     | AC-FT | 3,170 |       |       |        |      |       |     |

# NORTH PLATTE RIVER BASIN

**BLUE CREEK CANAL from Blue Creek, 00017000 - 1996**

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

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

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

REMARKS.--Total diversion from Blue Creek for both Blue Creek Canal and Hooper Canal. Deliveries to Hooper Canal shown seperately in this report.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR    | MAY   | JUN   | JUL     | AUG   | SEP   | OCT    | NOV   | DEC |
|-----------|-----|-------|-----|--------|-------|-------|---------|-------|-------|--------|-------|-----|
| 1         |     |       |     | 0      | 16    | 13    | 47      | 49    | 0     | 6.7    |       |     |
| 2         |     |       |     | 0      | 16    | 12    | 49      | 33    | 0     | 10     |       |     |
| 3         |     |       |     | 0      | 15    | 12    | 52      | 27    | 12    | 13     |       |     |
| 4         |     |       |     | 0      | 21    | 13    | 51      | 30    | 16    | 13     |       |     |
| 5         |     |       |     | 0      | 24    | 13    | 50      | 47    | 15    | 13     |       |     |
| 6         |     |       |     | 0      | 24    | 14    | 50      | 47    | 19    | 13     |       |     |
| 7         |     |       |     | 0      | 28    | 14    | 50      | 48    | 19    | 13     |       |     |
| 8         |     |       |     | 0      | 30    | 13    | 50      | 53    | 19    | 12     |       |     |
| 9         |     |       |     | 0      | 31    | 12    | 46      | 53    | 19    | 11     |       |     |
| 10        |     |       |     | 0      | 32    | 12    | 46      | 53    | 19    | 6.1    |       |     |
| 11        |     |       |     | 0      | 28    | 12    | 45      | 51    | 18    |        | .92   |     |
| 12        |     |       |     | 0      | 24    | 13    | 47      | 52    | 17    | 0      |       |     |
| 13        |     |       |     | 0      | 22    | 12    | 48      | 52    | 13    | 0      |       |     |
| 14        |     |       |     | 0      | 18    | 12    | 49      | 51    | 13    | 0      |       |     |
| 15        |     |       |     | 0      | 20    | 13    | 35      | 50    | 14    | 0      |       |     |
| 16        |     |       |     | 0      | 24    | 14    | 8.7     | 48    | 14    | 0      |       |     |
| 17        |     |       |     | 0      | 24    | 5.1   | 26      | 46    | 15    | 0      |       |     |
| 18        |     |       |     | 0      | 24    | 0     | 19      | 45    | 16    | 0      |       |     |
| 19        |     |       |     | 0      | 29    | 0     | 30      | 18    | 3.2   | 0      |       |     |
| 20        |     |       |     | .52    | 36    | 0     | 40      | 0     | 4.1   | 0      |       |     |
| 21        |     |       |     | 14     | 35    | 3.2   | 46      | 0     | 6.9   | 0      |       |     |
| 22        |     |       |     | 21     | 30    | 24    | 52      | 0     | 3.9   | 0      |       |     |
| 23        |     |       |     | 21     | 24    | 27    | 54      | 20    | 7.5   | 0      |       |     |
| 24        |     |       |     | 25     | 24    | 25    | 50      | 44    | 9.8   | 0      |       |     |
| 25        |     |       |     | 31     | 24    | 30    | 49      | 43    | 11    | 0      |       |     |
| 26        |     |       |     | 28     | 24    | 42    | 51      | 46    | 7.4   | 0      |       |     |
| 27        |     |       |     | 29     | 22    | 48    | 51      | 50    | 7.2   | 0      |       |     |
| 28        |     |       |     | 27     | 17    | 47    | 50      | 50    | 6.9   | 0      |       |     |
| 29        |     |       |     | 20     | 15    | 47    | 47      | 11    | 7.0   | 0      |       |     |
| 30        |     | ----- |     | 17     | 14    | 47    | 44      | 0     | 6.9   | 0      |       |     |
| 31        |     | ----- |     | -----  | 13    | ----- | 46      | 0     | ----- | 0      | ----- |     |
| TOTAL     |     |       |     | 233.52 | 728   | 549.3 | 1,378.7 | 1,117 | 339.8 | 111.72 |       |     |
| MEAN      |     |       |     | 7.78   | 23.5  | 18.3  | 44.5    | 36.0  | 11.3  | 3.60   |       |     |
| MAX       |     |       |     | 31     | 36    | 48    | 54      | 53    | 19    | 13     |       |     |
| MIN       |     |       |     | 0      | 13    | 0     | 8.7     | 0     | 0     | 0      |       |     |
| AC-FT     |     |       |     | 463    | 1,440 | 1,090 | 2,730   | 2,220 | 674   | 222    |       |     |
| YEAR 1996 | MAX | 54    | MIN | 0      | AC-FT | 8,840 |         |       |       |        |       |     |

## NORTH PLATTE RIVER BASIN

## HOOPER CANAL from Blue Creek, 00067000 - 1996

LOCATION.--SE1/4SW1/4 Sec. 6-16-42 W. near Lewellen

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

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL    | AUG    | SEP   | OCT | NOV | DEC |
|-----------|-----|-------|-----|-------|-------|--------|--------|--------|-------|-----|-----|-----|
| 1         |     |       |     |       | 0     | 2.8    | 13     | 10     | 0     |     |     |     |
| 2         |     |       |     |       | 0     | 2.7    | 13     | 6.3    | 0     |     |     |     |
| 3         |     |       |     |       | 0     | 2.6    | 13     | 2.9    | 0     |     |     |     |
| 4         |     |       |     |       | 0     | 2.2    | 13     | 2.7    | 0     |     |     |     |
| 5         |     |       |     |       | 0     | .35    | 13     | 2.4    | .48   |     |     |     |
| 6         |     |       |     |       | 0     | .02    | 12     | 2.2    | 1.9   |     |     |     |
| 7         |     |       |     |       | 0     | 0      | 10     | 3.7    | 2.8   |     |     |     |
| 8         |     |       |     |       | 0     | 0      | 9.5    | 12     | 2.4   |     |     |     |
| 9         |     |       |     |       | 0     | 0      | 5.7    | 13     | 2.2   |     |     |     |
| 10        |     |       |     |       | 0     | 0      | 5.3    | 13     | 1.3   |     |     |     |
| 11        |     |       |     |       | 0     | 0      | 5.7    | 12     | 0     |     |     |     |
| 12        |     |       |     |       | 0     | 0      | 8.1    | 11     | 0     |     |     |     |
| 13        |     |       |     |       | 0     | 2.9    | 10     | 11     | 0     |     |     |     |
| 14        |     |       |     |       | 0     | 4.0    | 10     | 12     | 0     |     |     |     |
| 15        |     |       |     |       | 0     | 4.2    | 8.1    | 12     | 0     |     |     |     |
| 16        |     |       |     |       | 0     | 4.4    | .59    | 11     | .59   |     |     |     |
| 17        |     |       |     |       | 0     | 2.1    | .44    | 5.5    | 1.9   |     |     |     |
| 18        |     |       |     |       | 0     | .64    | .32    | 1.0    | 2.2   |     |     |     |
| 19        |     |       |     |       | 3.8   | .47    | .25    | .04    | .63   |     |     |     |
| 20        |     |       |     |       | 6.8   | .33    | 2.3    | 0      | 0     |     |     |     |
| 21        |     |       |     |       | 6.2   | .24    | 5.1    | 0      | 0     |     |     |     |
| 22        |     |       |     |       | 6.4   | 6.0    | 9.9    | 0      | 0     |     |     |     |
| 23        |     |       |     |       | 5.7   | 8.6    | 12     | 1.8    | 0     |     |     |     |
| 24        |     |       |     |       | 5.1   | 8.4    | 13     | 4.5    | 0     |     |     |     |
| 25        |     |       |     |       | 4.0   | 8.6    | 13     | 4.3    | 0     |     |     |     |
| 26        |     |       |     |       | 3.2   | 10     | 13     | 8.5    | 0     |     |     |     |
| 27        |     |       |     |       | 3.1   | 9.2    | 11     | 12     | 0     |     |     |     |
| 28        |     |       |     |       | 2.9   | 9.3    | 6.6    | 12     | 0     |     |     |     |
| 29        |     |       |     |       | 2.9   | 12     | 4.1    | 3.2    | 0     |     |     |     |
| 30        |     | ----- |     |       | 2.8   | 13     | 8.6    | 0      | 0     |     |     |     |
| 31        |     | ----- |     | ----- | 2.8   | -----  | 11     | 0      | ----- |     |     |     |
| TOTAL     |     |       |     |       | 55.7  | 115.05 | 260.60 | 190.14 | 16.40 |     |     |     |
| MEAN      |     |       |     |       | 1.80  | 3.84   | 8.41   | 6.13   | .55   |     |     |     |
| MAX       |     |       |     |       | 6.8   | 13     | 13     | 13     | 2.8   |     |     |     |
| MIN       |     |       |     |       | 0     | 0      | .25    | 0      | 0     |     |     |     |
| AC-FT     |     |       |     |       | 110   | 228    | 517    | 377    | .33   |     |     |     |
| YEAR 1996 | MAX | 13    | MIN | 0     | AC-FT | 1,270  |        |        |       |     |     |     |

# NORTH PLATTE RIVER BASIN

UNION CANAL from Blue Creek, 00146000 - 1996

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

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

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY    | JUN    | JUL   | AUG   | SEP   | OCT   | NOV   | DEC |
|-----------|-----|-------|-----|-------|--------|--------|-------|-------|-------|-------|-------|-----|
| 1         |     |       |     | 0     | 0      | 6.8    | 17    | 7.5   | 4.2   | 0     |       |     |
| 2         |     |       |     | 0     | 0      | 6.7    | 17    | 7.1   | 1.5   | 0     |       |     |
| 3         |     |       |     | 0     | 0      | 3.1    | 17    | 5.7   | 1.3   | 0     |       |     |
| 4         |     |       |     | 0     | 0      | .08    | 17    | 4.9   | 2.3   | 1.8   |       |     |
| 5         |     |       |     | 0     | 0      | .12    | 18    | 10    | 4.0   | 3.9   |       |     |
| 6         |     |       |     | 0     | 0      | .12    | 18    | 15    | 5.3   | 4.2   |       |     |
| 7         |     |       |     | 0     | 0      | .08    | 18    | 16    | 6.6   | 4.6   |       |     |
| 8         |     |       |     | 0     | 0      | .05    | 18    | 16    | 6.5   | 4.8   |       |     |
| 9         |     |       |     | 0     | 0      | .05    | 18    | 14    | 3.6   | 4.5   |       |     |
| 10        |     |       |     | 0     | 0      | .05    | 16    | 11    | .58   | .43   |       |     |
| 11        |     |       |     | 0     | 0      | 2.5    | 13    | 12    | 3.4   | 0     |       |     |
| 12        |     |       |     | 0     | 0      | 3.8    | 13    | 12    | 2.7   | 0     |       |     |
| 13        |     |       |     | 0     | 0      | 3.3    | 12    | 13    | .62   | 0     |       |     |
| 14        |     |       |     | 0     | 0      | 2.9    | 13    | 14    | .65   | 0     |       |     |
| 15        |     |       |     | 0     | 0      | 5.5    | 11    | 14    | .33   | 0     |       |     |
| 16        |     |       |     | 0     | 0      | 7.4    | 3.2   | 15    | .12   | 0     |       |     |
| 17        |     |       |     | 0     | 0      | 4.7    | 7.4   | 14    | .02   | 0     |       |     |
| 18        |     |       |     | 0     | .54    | 1.2    | 14    | 15    | .43   | 0     |       |     |
| 19        |     |       |     | 0     | 2.1    | .06    | 13    | 15    | .48   | 0     |       |     |
| 20        |     |       |     | 0     | 2.6    | .05    | 12    | 9.2   | .41   | 0     |       |     |
| 21        |     |       |     | 0     | 2.5    | .05    | 14    | 12    | .02   | 0     |       |     |
| 22        |     |       |     | 0     | 2.7    | .05    | 15    | 15    | 0     | 0     |       |     |
| 23        |     |       |     | 0     | 8.4    | .05    | 16    | 15    | 0     | 0     |       |     |
| 24        |     |       |     | 0     | 13     | .03    | 18    | 12    | 0     | 0     |       |     |
| 25        |     |       |     | 0     | 14     | 4.8    | 17    | 13    | 0     | 0     |       |     |
| 26        |     |       |     | 0     | 14     | 6.6    | 15    | 13    | 0     | 0     |       |     |
| 27        |     |       |     | 0     | 14     | 7.3    | 16    | 12    | 0     | 0     |       |     |
| 28        |     |       |     | 0     | 11     | 12     | 18    | 13    | 0     | 0     |       |     |
| 29        |     |       |     | 0     | 8.0    | 16     | 15    | 12    | 0     | 0     |       |     |
| 30        |     | ----- |     | 0     | 6.9    | 17     | 9.8   | 11    | 0     | 0     |       |     |
| 31        |     | ----- |     | ----- | 7.1    | -----  | 15    | 6.2   | ----- | 0     | ----- |     |
| TOTAL     |     |       |     | 0     | 106.84 | 112.44 | 454.4 | 374.6 | 45.06 | 24.23 |       |     |
| MEAN      |     |       |     | 0     | 3.45   | 3.75   | 14.7  | 12.1  | 1.50  | .78   |       |     |
| MAX       |     |       |     | 0     | 14     | 17     | 18    | 16    | 6.6   | 4.8   |       |     |
| MIN       |     |       |     | 0     | 0      | .03    | 3.2   | 4.9   | 0     | 0     |       |     |
| AC-FT     |     |       |     | 0     | 212    | 223    | 901   | 743   | 89    | 48    |       |     |
| YEAR 1996 | MAX | 18    | MIN | 0     | AC-FT  | 2,220  |       |       |       |       |       |     |

## NORTH PLATTE RIVER BASIN

GRAF CANAL from Blue Creek, 00060000 - 1996

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

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

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL    | AUG    | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|--------|--------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 7.7   | 5.7   | 7.7    | 0      | 0     | 0   |       |     |
| 2         |     |       |     | 0     | 8.0   | 4.9   | .17    | 0      | 0     | 0   |       |     |
| 3         |     |       |     | 0     | 7.9   | 7.5   | 0      | 0      | 0     | 0   |       |     |
| 4         |     |       |     | 0     | 7.8   | 9.8   | 0      | 0      | 0     | 0   |       |     |
| 5         |     |       |     | 0     | 7.5   | 9.5   | 0      | 0      | 0     | 0   |       |     |
| 6         |     |       |     | 0     | 7.5   | 9.5   | 0      | 0      | 0     | 0   |       |     |
| 7         |     |       |     | 0     | 7.4   | 8.6   | 0      | 0      | 0     | 0   |       |     |
| 8         |     |       |     | 0     | 7.1   | 8.7   | 0      | 0      | 0     | 0   |       |     |
| 9         |     |       |     | 0     | 6.8   | 8.1   | 0      | 0      | 0     | 0   |       |     |
| 10        |     |       |     | 0     | 3.4   | 8.0   | .84    | 0      | 0     | 0   |       |     |
| 11        |     |       |     | 0     | 3.2   | 7.4   | 6.0    | 0      | 0     | 0   |       |     |
| 12        |     |       |     | 0     | 3.8   | 6.7   | 6.0    | 5.5    | 0     | 0   |       |     |
| 13        |     |       |     | 0     | 6.6   | 5.9   | 6.2    | 7.8    | 0     | 0   |       |     |
| 14        |     |       |     | 0     | 7.1   | 5.3   | 6.4    | 7.8    | 0     | 0   |       |     |
| 15        |     |       |     | 0     | 7.0   | 2.9   | 4.7    | 6.9    | 0     | 0   |       |     |
| 16        |     |       |     | 0     | 7.0   | 0     | .81    | .92    | 0     | 0   |       |     |
| 17        |     |       |     | 0     | 6.7   | 0     | 3.4    | 8.1    | 0     | 0   |       |     |
| 18        |     |       |     | 0     | 6.2   | 0     | 5.1    | 7.8    | 0     | 0   |       |     |
| 19        |     |       |     | 0     | 5.4   | 0     | 3.5    | 8.4    | 0     | 0   |       |     |
| 20        |     |       |     | 0     | 4.3   | 0     | 9.0    | 8.2    | 0     | 0   |       |     |
| 21        |     |       |     | 0     | 5.7   | 0     | 8.6    | 7.7    | 0     | 0   |       |     |
| 22        |     |       |     | 0     | 8.2   | 0     | 5.2    | 7.5    | 0     | 0   |       |     |
| 23        |     |       |     | 0     | 7.2   | 0     | 4.4    | 6.9    | 0     | 0   |       |     |
| 24        |     |       |     | 0     | 9.2   | 6.5   | 5.7    | 5.2    | 0     | 0   |       |     |
| 25        |     |       |     | .19   | 7.3   | 7.8   | 5.9    | 5.3    | 0     | 0   |       |     |
| 26        |     |       |     | 1.8   | 6.0   | 4.3   | 6.7    | 5.0    | 0     | 0   |       |     |
| 27        |     |       |     | 2.4   | 6.4   | 1.2   | 7.0    | 4.7    | 0     | 0   |       |     |
| 28        |     |       |     | 1.9   | 2.2   | 3.5   | 6.9    | 4.6    | 0     | 0   |       |     |
| 29        |     |       |     | 3.9   | 3.4   | 7.8   | 7.0    | 2.2    | 0     | 0   |       |     |
| 30        |     | ----- |     | 5.4   | 6.2   | 7.7   | 4.7    | 0      | 0     | 0   |       |     |
| 31        |     | ----- |     | ----- | 7.0   | ----- | .04    | 0      | ----- | 0   | ----- |     |
| TOTAL     |     |       |     | 15.59 | 197.2 | 147.3 | 121.96 | 110.52 | 0     | 0   |       |     |
| MEAN      |     |       |     | .52   | 6.36  | 4.91  | 3.93   | 3.57   | 0     | 0   |       |     |
| MAX       |     |       |     | 5.4   | 9.2   | 9.8   | 9.0    | 8.4    | 0     | 0   |       |     |
| MIN       |     |       |     | 0     | 2.2   | 0     | 0      | 0      | 0     | 0   |       |     |
| AC-FT     |     |       |     | 31    | 391   | 292   | 242    | 219    | 0     | 0   |       |     |
| YEAR 1996 | MAX | 9.8   | MIN | 0     | AC-FT | 1,180 |        |        |       |     |       |     |

# NORTH PLATTE RIVER BASIN

**BLUE CREEK near Lewellen, 06687000 - 1996**

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

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

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

PERIOD OF RECORD.--Oct. 1930 - present

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

E indicates estimated daily discharge. Estimated records January 2-9, 17-February 21, 27-March 9, 24-27, June 22-July 3, 12, 15-23, December 18-31. Records fair except estimated records 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 152 cubic feet per second August 29, gage height 4.35 feet; maximum gage height 8.03 feet March 25 due to backwater from ice; minimum daily discharge 11 cubic feet per second July 2-4.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 101   | 84E    | 102E  | 99    | 76    | 60    | 15E   | 33    | 108   | 75     | 96    | 103   |
| 2         | 98E   | 82E    | 102E  | 98    | 74    | 58    | 11E   | 47    | 106   | 71     | 99    | 105   |
| 3         | 98E   | 82E    | 104E  | 98    | 74    | 57    | 11E   | 50    | 95    | 69     | 100   | 104   |
| 4         | 100E  | 82E    | 108E  | 95    | 69    | 61    | 11    | 48    | 82    | 65     | 101   | 103   |
| 5         | 98E   | 82E    | 108E  | 96    | 63    | 67    | 12    | 34    | 73    | 60     | 99    | 105   |
| 6         | 100E  | 84E    | 108E  | 96    | 62    | 74    | 13    | 30    | 60    | 62     | 98    | 106   |
| 7         | 102E  | 86E    | 108E  | 97    | 59    | 81    | 12    | 30    | 58    | 67     | 95    | 105   |
| 8         | 106E  | 90E    | 108E  | 97    | 57    | 83    | 12    | 22    | 57    | 69     | 95    | 106   |
| 9         | 110E  | 104E   | 108E  | 98    | 65    | 76    | 15    | 21    | 57    | 69     | 97    | 109   |
| 10        | 108   | 104E   | 108   | 98    | 72    | 74    | 21    | 27    | 57    | 79     | 97    | 112   |
| 11        | 107   | 104E   | 109   | 97    | 72    | 72    | 19    | 27    | 49    | 90     | 96    | 112   |
| 12        | 105   | 104E   | 107   | 96    | 71    | 69    | 18E   | 19    | 47    | 91     | 95    | 111   |
| 13        | 107   | 104E   | 105   | 98    | 65    | 65    | 16    | 15    | 51    | 92     | 95    | 111   |
| 14        | 107   | 104E   | 104   | 101   | 66    | 62    | 15    | 15    | 51    | 88     | 95    | 111   |
| 15        | 106   | 104E   | 103   | 101   | 64    | 62    | 18E   | 18    | 55    | 85     | 95    | 109   |
| 16        | 106   | 104E   | 101   | 100   | 59    | 61    | 20E   | 32    | 56    | 85     | 98    | 105   |
| 17        | 100E  | 104E   | 100   | 99    | 57    | 75    | 50E   | 27    | 60    | 85     | 97    | 76    |
| 18        | 90E   | 104E   | 101   | 97    | 55    | 83    | 58E   | 29    | 113   | 88     | 93    | 90E   |
| 19        | 90E   | 102E   | 97    | 103   | 51    | 81    | 50E   | 45    | 128   | 91     | 103   | 100E  |
| 20        | 92E   | 102E   | 94    | 92    | 51    | 80    | 40E   | 72    | 122   | 90     | 104   | 120E  |
| 21        | 94E   | 102E   | 96    | 92    | 51    | 80    | 20E   | 72    | 91    | 88     | 101   | 116E  |
| 22        | 88E   | 105    | 97    | 78    | 50    | 76E   | 15E   | 67    | 85    | 88     | 99    | 110E  |
| 23        | 90E   | 103    | 95    | 78    | 51    | 70E   | 14E   | 53    | 80    | 89     | 98    | 106E  |
| 24        | 88E   | 101    | 90E   | 76    | 51    | 64E   | 13    | 25    | 74    | 90     | 94    | 100E  |
| 25        | 82E   | 103    | 84E   | 63    | 52    | 60E   | 15    | 24    | 72    | 93     | 98    | 106E  |
| 26        | 88E   | 101    | 88E   | 62    | 52    | 50E   | 14    | 22    | 75    | 98     | 104   | 104E  |
| 27        | 90E   | 100E   | 96E   | 63    | 66    | 40E   | 12    | 18    | 74    | 99     | 102   | 106E  |
| 28        | 88E   | 100E   | 113   | 79    | 76    | 35E   | 12    | 17    | 74    | 98     | 103   | 108E  |
| 29        | 84E   | 102E   | 102   | 86    | 67    | 25E   | 13    | 98    | 75    | 101    | 105   | 108E  |
| 30        | 86E   | -----  | 100   | 82    | 61    | 20E   | 20    | 109   | 75    | 101    | 104   | 110E  |
| 31        | 84E   | -----  | 100   | ----- | 63    | ----- | 33    | 112   | ----- | 100    | ----- | 110E  |
| TOTAL     | 2,993 | 2,833  | 3,146 | 2,715 | 1,922 | 1,921 | 618   | 1,258 | 2,260 | 2,616  | 2,958 | 3,287 |
| MEAN      | 96.5  | 97.7   | 101   | 90.5  | 62.0  | 64.0  | 19.9  | 40.6  | 75.3  | 84.4   | 98.6  | 106   |
| MAX       | 110   | 105    | 113   | 103   | 76    | 83    | 58    | 112   | 128   | 101    | 105   | 120   |
| MIN       | 82    | 82     | 84    | 62    | 50    | 20    | 11    | 15    | 47    | 60     | 93    | 76    |
| AC-FT     | 5,940 | 5,620  | 6,240 | 5,390 | 3,810 | 3,810 | 1,230 | 2,500 | 4,480 | 5,190  | 5,870 | 6,520 |
| YEAR 1996 | TOTAL | 28,527 | MEAN  | 77.9  | MAX   | 128   | MIN   | 11    | AC-FT | 56,580 |       |       |

## NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER near Lewellen, 06687500 - 1996

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

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

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

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

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

E indicates estimated daily discharge. Estimated records January 1-February 18, February 28-March 12, March 25-28, November 16-21, December 17-31. Records good except estimated records 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 3,940 cubic feet per second June 10, gage height 7.08 feet; minimum daily discharge 570 cubic feet per second July 25.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR    | APR    | MAY    | JUN     | JUL    | AUG    | SEP     | OCT       | NOV    | DEC    |
|-----------|--------|---------|--------|--------|--------|---------|--------|--------|---------|-----------|--------|--------|
| 1         | 1,250E | 780E    | 1,100E | 1,080  | 1,020  | 3,080   | 1,060  | 800    | 1,480   | 1,890     | 1,500  | 1,290  |
| 2         | 1,300E | 780E    | 1,120E | 1,100  | 1,110  | 3,470   | 949    | 845    | 1,550   | 1,850     | 1,520  | 1,290  |
| 3         | 1,350E | 760E    | 1,140E | 1,090  | 1,110  | 3,490   | 863    | 880    | 1,570   | 1,810     | 1,540  | 1,270  |
| 4         | 1,300E | 740E    | 1,160E | 1,060  | 1,240  | 3,590   | 765    | 855    | 1,450   | 1,800     | 1,540  | 1,260  |
| 5         | 1,100E | 700E    | 1,160E | 1,050  | 1,220  | 3,740   | 695    | 850    | 1,410   | 1,780     | 1,520  | 1,270  |
| 6         | 1,000E | 900E    | 1,180E | 1,040  | 1,200  | 3,810   | 640    | 828    | 1,340   | 1,710     | 1,500  | 1,310  |
| 7         | 900E   | 1,000E  | 1,180E | 1,040  | 1,310  | 3,850   | 604    | 808    | 1,530   | 1,800     | 1,490  | 1,310  |
| 8         | 1,000E | 1,200E  | 1,200E | 1,030  | 1,330  | 3,880   | 580    | 780    | 1,670   | 1,780     | 1,440  | 1,300  |
| 9         | 1,200E | 1,250E  | 1,200E | 1,020  | 1,350  | 3,870   | 577    | 735    | 1,690   | 1,710     | 1,470  | 1,340  |
| 10        | 1,300E | 1,300E  | 1,250E | 1,030  | 1,360  | 3,900   | 602    | 751    | 1,680   | 1,680     | 1,480  | 1,360  |
| 11        | 1,400E | 1,350E  | 1,250E | 1,020  | 1,410  | 3,900   | 580    | 756    | 1,630   | 1,680     | 1,470  | 1,380  |
| 12        | 1,500E | 1,350E  | 1,200E | 1,030  | 1,340  | 3,830   | 574    | 740    | 1,600   | 1,630     | 1,440  | 1,370  |
| 13        | 1,600E | 1,300E  | 1,180  | 1,020  | 1,280  | 3,730   | 576    | 730    | 1,630   | 1,610     | 1,430  | 1,350  |
| 14        | 1,550E | 1,300E  | 1,170  | 1,030  | 1,230  | 3,660   | 591    | 713    | 1,650   | 1,590     | 1,410  | 1,350  |
| 15        | 1,500E | 1,250E  | 1,180  | 1,020  | 1,210  | 3,510   | 667    | 694    | 1,790   | 1,560     | 1,400  | 1,270  |
| 16        | 1,400E | 1,250E  | 1,170  | 1,020  | 1,140  | 3,770   | 844    | 730    | 1,870   | 1,540     | 1,350E | 1,220  |
| 17        | 1,300E | 1,250E  | 1,170  | 1,000  | 1,080  | 3,730   | 826    | 895    | 1,880   | 1,540     | 1,350E | 1,200E |
| 18        | 1,200E | 1,200E  | 1,190  | 992    | 1,050  | 3,760   | 789    | 920    | 2,670   | 1,560     | 1,400E | 1,250E |
| 19        | 1,160E | 1,190   | 1,140  | 1,020  | 1,010  | 3,730   | 726    | 915    | 2,650   | 1,580     | 1,400E | 1,140E |
| 20        | 1,100E | 1,190   | 1,090  | 1,050  | 1,020  | 3,700   | 654    | 915    | 2,720   | 1,600     | 1,450E | 600E   |
| 21        | 1,100E | 1,190   | 1,090  | 1,030  | 1,060  | 3,610   | 599    | 889    | 2,480   | 1,580     | 1,450E | 900E   |
| 22        | 1,160E | 1,200   | 1,090  | 1,050  | 1,080  | 3,330   | 574    | 891    | 2,370   | 1,600     | 1,460  | 1,000E |
| 23        | 1,100E | 1,190   | 1,080  | 1,030  | 1,110  | 2,960   | 584    | 897    | 2,270   | 1,500     | 1,410  | 1,040E |
| 24        | 1,060E | 1,140   | 1,090  | 1,040  | 1,180  | 2,640   | 574    | 883    | 2,160   | 1,510     | 1,280  | 1,040E |
| 25        | 1,040E | 1,130   | 1,000E | 1,020  | 1,340  | 2,460   | 570    | 903    | 2,090   | 1,520     | 1,310  | 1,060E |
| 26        | 1,000E | 1,130   | 1,020E | 974    | 1,600  | 2,130   | 656    | 946    | 1,980   | 1,560     | 1,370  | 1,060E |
| 27        | 980E   | 1,110   | 1,040E | 940    | 2,090  | 1,840   | 656    | 967    | 1,990   | 1,560     | 1,370  | 1,100E |
| 28        | 960E   | 1,000E  | 1,080E | 1,020  | 2,480  | 1,640   | 706    | 966    | 1,920   | 1,540     | 1,370  | 1,100E |
| 29        | 940E   | 1,060E  | 1,100  | 1,010  | 2,710  | 1,450   | 711    | 1,060  | 1,870   | 1,560     | 1,370  | 1,120E |
| 30        | 900E   | -----   | 1,090  | 1,000  | 2,680  | 1,210   | 750    | 1,220  | 1,890   | 1,520     | 1,340  | 1,120E |
| 31        | 800E   | -----   | 1,090  | -----  | 2,780  | -----   | 862    | 1,370  | -----   | 1,490     | -----  | 1,140E |
| TOTAL     | 36,450 | 32,190  | 35,200 | 30,856 | 44,130 | 97,270  | 21,404 | 27,132 | 56,480  | 50,640    | 42,830 | 36,810 |
| MEAN      | 1,176  | 1,110   | 1,135  | 1,029  | 1,424  | 3,242   | 690    | 875    | 1,883   | 1,634     | 1,428  | 1,187  |
| MAX       | 1,600  | 1,350   | 1,250  | 1,100  | 2,780  | 3,900   | 1,060  | 1,370  | 2,720   | 1,890     | 1,540  | 1,380  |
| MIN       | 800    | 700     | 1,000  | 940    | 1,010  | 1,210   | 570    | 694    | 1,340   | 1,490     | 1,280  | 600    |
| AC-FT     | 72,300 | 63,850  | 69,820 | 61,200 | 87,530 | 192,900 | 42,450 | 53,820 | 112,000 | 100,400   | 84,950 | 73,010 |
| YEAR 1996 | TOTAL  | 511,392 | MEAN   | 1,397  | MAX    | 3,900   | MIN    | 570    | AC-FT   | 1,014,000 |        |        |





## NORTH PLATTE RIVER BASIN

## SUTHERLAND CANAL from North Platte River and Kingsley Reservoir, 00138000 - 1996

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

GAGE.--Continuous stage recorder and concrete control section

PERIOD OF RECORD.--1936 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB    | MAR    | APR    | MAY    | JUN     | JUL     | AUG    | SEP    | OCT    | NOV    | DEC    |
|-----------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 1         | 1,050  | 711    | 476    | 1,450  | 775    | 971     | 1,450   | 1,750  | 1,480  | 1,290  | 1,320  | 1,210  |
| 2         | 1,050  | 715    | 478    | 1,470  | 771    | 970     | 1,630   | 1,750  | 1,480  | 1,300  | 1,310  | 1,210  |
| 3         | 996    | 717    | 479    | 1,500  | 838    | 969     | 1,730   | 1,680  | 1,480  | 1,300  | 1,310  | 1,210  |
| 4         | 951    | 710    | 424    | 1,560  | 894    | 1,070   | 1,790   | 1,630  | 1,480  | 1,300  | 1,310  | 1,220  |
| 5         | 956    | 699    | 429    | 1,610  | 891    | 1,210   | 1,790   | 1,600  | 1,480  | 1,300  | 1,310  | 1,220  |
| 6         | 955    | 694    | 583    | 1,600  | 929    | 1,260   | 1,790   | 1,540  | 1,430  | 1,300  | 1,310  | 1,210  |
| 7         | 952    | 693    | 727    | 1,600  | 1,030  | 1,310   | 1,780   | 1,540  | 1,390  | 1,300  | 1,310  | 1,210  |
| 8         | 949    | 713    | 787    | 1,540  | 1,060  | 1,360   | 1,790   | 1,540  | 1,400  | 1,190  | 1,310  | 1,200  |
| 9         | 946    | 726    | 778    | 1,500  | 1,100  | 1,360   | 1,790   | 1,540  | 1,400  | 1,000  | 1,310  | 1,210  |
| 10        | 945    | 750    | 772    | 1,490  | 1,150  | 1,360   | 1,790   | 1,530  | 1,400  | 873    | 1,310  | 1,220  |
| 11        | 942    | 758    | 773    | 1,470  | 1,150  | 1,380   | 1,780   | 1,530  | 1,410  | 741    | 1,310  | 1,220  |
| 12        | 941    | 710    | 818    | 1,470  | 1,150  | 1,460   | 1,780   | 1,530  | 1,420  | 647    | 1,310  | 1,220  |
| 13        | 939    | 584    | 905    | 1,500  | 1,150  | 1,570   | 1,780   | 1,520  | 1,290  | 597    | 1,310  | 1,210  |
| 14        | 942    | 503    | 911    | 1,500  | 1,180  | 1,620   | 1,780   | 1,520  | 1,210  | 590    | 1,320  | 1,220  |
| 15        | 947    | 460    | 940    | 1,510  | 1,160  | 1,630   | 1,730   | 1,520  | 1,220  | 501    | 1,310  | 1,230  |
| 16        | 942    | 404    | 963    | 1,530  | 1,060  | 1,630   | 1,730   | 1,520  | 1,090  | 398    | 1,320  | 1,230  |
| 17        | 951    | 395    | 971    | 1,530  | 1,010  | 1,630   | 1,770   | 1,510  | 834    | 344    | 1,320  | 1,150  |
| 18        | 929    | 394    | 1,030  | 1,520  | 1,010  | 1,470   | 1,770   | 1,510  | 563    | 315    | 1,260  | 1,020  |
| 19        | 846    | 391    | 1,080  | 1,550  | 1,010  | 1,180   | 1,770   | 1,510  | 487    | 395    | 1,200  | 951    |
| 20        | 846    | 391    | 1,140  | 1,560  | 974    | 1,100   | 1,770   | 1,510  | 487    | 563    | 1,200  | 923    |
| 21        | 802    | 385    | 1,130  | 1,560  | 1,040  | 1,040   | 1,760   | 1,510  | 483    | 658    | 1,200  | 940    |
| 22        | 816    | 385    | 1,150  | 1,560  | 1,270  | 1,010   | 1,770   | 1,500  | 481    | 760    | 1,200  | 957    |
| 23        | 804    | 385    | 1,220  | 1,500  | 1,460  | 1,010   | 1,770   | 1,500  | 596    | 874    | 1,200  | 965    |
| 24        | 783    | 385    | 1,220  | 1,370  | 1,580  | 1,010   | 1,770   | 1,500  | 840    | 930    | 1,210  | 927    |
| 25        | 692    | 383    | 1,240  | 1,250  | 1,630  | 1,060   | 1,750   | 1,490  | 1,010  | 1,060  | 1,200  | 814    |
| 26        | 691    | 390    | 1,180  | 1,120  | 1,630  | 1,160   | 1,720   | 1,490  | 1,220  | 1,170  | 1,200  | 830    |
| 27        | 687    | 388    | 1,230  | 1,010  | 1,480  | 1,150   | 1,760   | 1,490  | 1,330  | 1,270  | 1,200  | 824    |
| 28        | 690    | 442    | 1,230  | 984    | 1,260  | 1,100   | 1,760   | 1,480  | 1,300  | 1,310  | 1,200  | 828    |
| 29        | 709    | 478    | 1,230  | 922    | 1,110  | 1,100   | 1,760   | 1,480  | 1,300  | 1,310  | 1,200  | 828    |
| 30        | 706    | -----  | 1,310  | 818    | 1,020  | 1,220   | 1,760   | 1,480  | 1,290  | 1,320  | 1,210  | 825    |
| 31        | 707    | -----  | 1,410  | -----  | 975    | -----   | 1,760   | 1,480  | -----  | 1,320  | -----  | 825    |
| TOTAL     | 27,064 | 15,739 | 29,014 | 42,554 | 34,747 | 37,370  | 54,330  | 47,680 | 34,281 | 29,226 | 37,990 | 33,057 |
| MEAN      | 873    | 543    | 936    | 1,418  | 1,121  | 1,246   | 1,753   | 1,538  | 1,143  | 943    | 1,266  | 1,066  |
| MAX       | 1,050  | 758    | 1,410  | 1,610  | 1,630  | 1,630   | 1,790   | 1,750  | 1,480  | 1,320  | 1,320  | 1,230  |
| MIN       | 687    | 383    | 424    | 818    | 771    | 969     | 1,450   | 1,480  | 481    | 315    | 1,200  | 814    |
| AC-FT     | 53,680 | 31,220 | 57,550 | 84,410 | 68,920 | 74,120  | 107,800 | 94,570 | 68,000 | 57,970 | 75,350 | 65,570 |
| YEAR 1996 | MAX    | 1,790  | MIN    | 315    | AC-FT  | 839,100 |         |        |        |        |        |        |

# SOUTH PLATTE RIVER BASIN

**SOUTH PLATTE SUPPLY CANAL (Korty) from South Platte River, 06764900 - 1996**

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

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

PERIOD OF RECORD.--1947 - present

REMARKS.--S indicates submergence of the Parshall flume; E indicates estimated daily discharge

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB    | MAR    | APR    | MAY   | JUN     | JUL   | AUG | SEP    | OCT    | NOV    | DEC    |
|-----------|--------|--------|--------|--------|-------|---------|-------|-----|--------|--------|--------|--------|
| 1         | 520    | 586S   | 700S   | 533    | 119   | 911     | 546   | 0   | 197E   | 559    | 245    | 330    |
| 2         | 625    | 582S   | 760S   | 525    | 108   | 844     | 349   | 0   | 400E   | 520    | 245    | 328    |
| 3         | 517    | 631S   | 780S   | 471    | 104   | 722     | 213   | 0   | 478E   | 491    | 223    | 256    |
| 4         | 409    | 665S   | 800S   | 406    | 103   | 617     | 184   | 0   | 473    | 489    | 201    | 225    |
| 5         | 470S   | 672S   | 840    | 358    | 96    | 602     | 164   | 0   | 489    | 489    | 201    | 227    |
| 6         | 580S   | 641S   | 848    | 341    | 77    | 606     | 127   | 0   | 490    | 490    | 199    | 216    |
| 7         | 530S   | 654S   | 964    | 342    | 65    | 534     | 90    | 0   | 553    | 390    | 200    | 234    |
| 8         | 449S   | 668S   | 222    | 390    | 64    | 470     | 69    | 0   | 596    | 397    | 189    | 261    |
| 9         | 357S   | 695S   | 500S   | 441    | 64    | 443     | 0     | 0   | 604    | 503    | 170    | 318    |
| 10        | 283S   | 668S   | 620    | 428    | 78    | 404     | 0     | 0   | 615    | 363    | 170    | 354    |
| 11        | 273S   | 573S   | 762    | 387    | 149   | 355     | 0     | 0   | 621    | 302    | 169    | 350    |
| 12        | 530S   | 677S   | 771    | 355    | 164   | 348     | 0     | 0   | 622    | 306    | 168    | 351    |
| 13        | 590S   | 835S   | 770    | 343    | 146   | 351     | 0     | 0   | 616    | 309    | 168    | 342    |
| 14        | 574S   | 710S   | 724    | 343    | 123   | 298     | 0     | 0   | 615    | 310    | 168    | 327    |
| 15        | 545S   | 665S   | 662    | 312    | 131   | 266     | 0     | 0   | 619    | 311    | 168    | 528S   |
| 16        | 520S   | 643S   | 591    | 288    | 101   | 311     | 0     | 0   | 614    | 310    | 153    | 720S   |
| 17        | 498S   | 563S   | 577    | 276    | 91    | 314     | 0     | 0   | 610    | 309    | 144    | 630S   |
| 18        | 400S   | 603S   | 619    | 254    | 94    | 328     | 0     | 0   | 607    | 309    | 135    | 510S   |
| 19        | 300S   | 703    | 612    | 227    | 90    | 433     | 0     | 0   | 579    | 366    | 136    | 512S   |
| 20        | 236S   | 817    | 597    | 219    | 84    | 653     | 0     | 0   | 537    | 464    | 147    | 552S   |
| 21        | 267S   | 928    | 595    | 216    | 86    | 858     | 0     | 0   | 865    | 496    | 148    | 570S   |
| 22        | 260S   | 832    | 558    | 212    | 83    | 949     | 0     | 0   | 1,040  | 496    | 209    | 580S   |
| 23        | 283S   | 764    | 437    | 196    | 96    | 1,020   | 0     | 0   | 975    | 465    | 236    | 585S   |
| 24        | 338S   | 685    | 306    | 171    | 119   | 1,030   | 0     | 0   | 991    | 453    | 195    | 660S   |
| 25        | 282S   | 651    | 150    | 173    | 156   | 885     | 0     | 0   | 884    | 454    | 182    | 700S   |
| 26        | 394S   | 577    | 283    | 146    | 210   | 759     | 0     | 0   | 671    | 414    | 183    | 690S   |
| 27        | 406S   | 586    | 564    | 122    | 273   | 795     | 0     | 0   | 645    | 362    | 219    | 710S   |
| 28        | 469S   | 710S   | 529    | 131    | 360   | 848     | 0     | 0   | 699    | 304    | 299    | 720S   |
| 29        | 607S   | 720S   | 548    | 118    | 354   | 825     | 0     | 0   | 713    | 263    | 288    | 720S   |
| 30        | 655S   | -----  | 543    | 122    | 360   | 678     | 0     | 0   | 640    | 262    | 348    | 700S   |
| 31        | 605S   | -----  | 540    | -----  | 703   | -----   | 0     | 0   | -----  | 256    | -----  | 675S   |
| TOTAL     | 13,772 | 19,704 | 18,772 | 8,846  | 4,851 | 18,457  | 1,742 | 0   | 19,060 | 12,212 | 5,906  | 14,881 |
| MEAN      | 444    | 679    | 606    | 295    | 156   | 615     | 56.2  | 0   | 635    | 394    | 197    | 480    |
| MAX       | 655    | 928    | 964    | 533    | 703   | 1,030   | 546   | 0   | 1,040  | 559    | 348    | 720    |
| MIN       | 236    | 563    | 150    | 118    | 64    | 266     | 0     | 0   | 197    | 256    | 135    | 216    |
| AC-FT     | 27,320 | 39,080 | 37,230 | 17,550 | 9,620 | 36,610  | 3,460 | 0   | 37,810 | 24,220 | 11,710 | 29,520 |
| YEAR 1996 | MAX    | 1,040  | MIN    | 0      | AC-FT | 274,100 |       |     |        |        |        |        |



# NORTH & SOUTH PLATTE RIVER BASIN

**MALONEY RESERVOIR from North & South Platte Rivers, 00405500 - 1996**

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<br>(feet) | CONTENT<br>(acre-feet) |
|--------------------------------|---------------------|------------------------|
| Maximum normal operating level | 3006.0              | 19,450                 |
| Normal operating level         | 3005.0              | 17,800                 |

DAILY CONTENTS IN ACRE-FEET FOR 1996

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

YEAR 1996                      MAX      18,300                      MIN      16,200

## NORTH &amp; SOUTH PLATTE RIVER BASIN

## SUTHERLAND POWER RETURN to the South Platte River, 00140000 - 1996

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 FOR 1996

| Day       | JAN    | FEB    | MAR    | APR    | MAY    | JUN     | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    |
|-----------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| 1         | 1,110  | 925    | 1,300  | 1,400  | 608    | 1,280   | 1,550  | 1,480  | 1,550  | 1,790  | 1,390  | 1,320  |
| 2         | 1,100  | 930    | 1,300  | 1,460  | 615    | 1,280   | 1,660  | 1,410  | 1,540  | 1,790  | 1,380  | 1,320  |
| 3         | 1,140  | 940    | 1,300  | 1,470  | 611    | 1,280   | 1,750  | 1,410  | 1,540  | 1,790  | 1,390  | 1,320  |
| 4         | 1,120  | 880    | 1,160  | 1,470  | 695    | 1,400   | 1,750  | 1,480  | 1,540  | 1,790  | 1,330  | 1,320  |
| 5         | 1,110  | 880    | 1,160  | 1,470  | 694    | 1,490   | 1,560  | 1,480  | 1,550  | 1,780  | 1,320  | 1,320  |
| 6         | 1,110  | 880    | 1,280  | 1,470  | 698    | 1,480   | 1,550  | 1,410  | 1,540  | 1,780  | 1,320  | 1,320  |
| 7         | 1,120  | 800    | 1,280  | 1,460  | 751    | 1,480   | 1,550  | 1,540  | 1,540  | 1,780  | 1,260  | 1,320  |
| 8         | 1,120  | 900    | 1,280  | 1,460  | 830    | 1,410   | 1,550  | 1,540  | 1,530  | 1,780  | 1,240  | 1,320  |
| 9         | 1,060  | 925    | 1,040  | 1,470  | 827    | 1,400   | 1,540  | 1,550  | 1,540  | 1,780  | 1,260  | 1,330  |
| 10        | 1,060  | 925    | 1,020  | 1,460  | 998    | 1,440   | 1,540  | 1,540  | 1,540  | 1,420  | 1,260  | 1,330  |
| 11        | 1,060  | 940    | 1,140  | 1,470  | 995    | 1,480   | 1,540  | 1,550  | 1,630  | 1,170  | 1,260  | 1,320  |
| 12        | 1,060  | 940    | 1,290  | 1,470  | 993    | 1,530   | 1,540  | 1,540  | 1,630  | 850    | 1,260  | 1,330  |
| 13        | 1,050  | 933    | 1,300  | 1,540  | 1,030  | 1,640   | 1,550  | 1,550  | 1,640  | 610    | 1,260  | 1,330  |
| 14        | 847    | 962    | 1,290  | 1,550  | 1,030  | 1,620   | 1,540  | 1,540  | 1,630  | 630    | 1,260  | 1,330  |
| 15        | 840    | 960    | 1,420  | 1,550  | 1,030  | 1,560   | 1,540  | 1,550  | 1,640  | 0      | 1,260  | 1,320  |
| 16        | 845    | 1,010  | 1,420  | 1,550  | 964    | 1,600   | 1,550  | 1,550  | 1,630  | 0      | 1,330  | 1,330  |
| 17        | 844    | 1,000  | 1,430  | 1,550  | 836    | 1,430   | 1,550  | 1,550  | 1,630  | 436    | 1,320  | 923    |
| 18        | 739    | 1,020  | 1,410  | 1,550  | 840    | 1,410   | 1,550  | 1,550  | 1,640  | 0      | 1,330  | 950    |
| 19        | 741    | 1,060  | 1,340  | 1,550  | 840    | 1,470   | 1,740  | 1,550  | 1,630  | 205    | 1,320  | 984    |
| 20        | 824    | 1,040  | 1,340  | 1,550  | 840    | 1,460   | 1,700  | 1,480  | 1,640  | 386    | 1,330  | 999    |
| 21        | 832    | 1,030  | 1,340  | 1,550  | 840    | 1,460   | 1,410  | 1,290  | 1,640  | 537    | 1,340  | 1,010  |
| 22        | 826    | 1,020  | 1,340  | 1,510  | 1,040  | 1,410   | 1,400  | 1,340  | 1,630  | 710    | 1,340  | 989    |
| 23        | 819    | 1,000  | 1,340  | 1,470  | 1,160  | 1,340   | 1,410  | 1,410  | 1,400  | 851    | 1,330  | 989    |
| 24        | 825    | 609    | 1,340  | 1,410  | 1,280  | 1,280   | 1,400  | 1,410  | 1,630  | 932    | 1,340  | 799    |
| 25        | 824    | 283    | 1,330  | 1,280  | 1,280  | 1,370   | 1,400  | 1,410  | 1,730  | 1,040  | 1,320  | 807    |
| 26        | 826    | 86     | 1,210  | 1,160  | 1,350  | 1,500   | 1,410  | 1,410  | 1,640  | 1,290  | 1,320  | 809    |
| 27        | 814    | 507    | 1,200  | 1,120  | 1,270  | 1,550   | 1,410  | 1,410  | 1,720  | 1,340  | 1,320  | 809    |
| 28        | 830    | 1,130  | 1,200  | 968    | 1,280  | 1,540   | 1,410  | 1,540  | 1,790  | 1,380  | 1,320  | 811    |
| 29        | 840    | 1,280  | 1,200  | 879    | 1,280  | 1,540   | 1,390  | 1,550  | 1,790  | 1,380  | 1,320  | 816    |
| 30        | 932    | -----  | 1,260  | 675    | 1,280  | 1,550   | 1,410  | 1,550  | 1,790  | 1,390  | 1,330  | 820    |
| 31        | 932    | -----  | 1,330  | -----  | 1,280  | -----   | 1,540  | 1,540  | -----  | 1,390  | -----  | 819    |
| TOTAL     | 29,200 | 25,795 | 39,590 | 41,942 | 30,065 | 43,680  | 47,390 | 46,110 | 48,510 | 34,009 | 39,360 | 34,514 |
| MEAN      | 942    | 889    | 1,277  | 1,398  | 970    | 1,456   | 1,529  | 1,487  | 1,617  | 1,097  | 1,312  | 1,113  |
| MAX       | 1,140  | 1,280  | 1,430  | 1,550  | 1,350  | 1,640   | 1,750  | 1,550  | 1,790  | 1,790  | 1,390  | 1,330  |
| MIN       | 739    | 86     | 1,020  | 675    | 608    | 1,280   | 1,390  | 1,290  | 1,400  | 0      | 1,240  | 799    |
| AC-FT     | 57,920 | 51,160 | 78,530 | 83,190 | 59,630 | 86,640  | 94,000 | 91,460 | 96,220 | 67,460 | 78,070 | 68,460 |
| YEAR 1996 | MAX    | 1,790  | MIN    | 0      | AC-FT  | 912,700 |        |        |        |        |        |        |

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER near Keystone, 06690500 - 1996

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.

E indicates estimated daily discharge. Estimated records December 17-20. Records good except estimated records fair.

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 2,750 cubic feet per second July 3, gage height 5.19 feet; minimum daily discharge zero on December 31.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB     | MAR   | APR   | MAY   | JUN    | JUL     | AUG    | SEP    | OCT     | NOV   | DEC   |
|-----------|-------|---------|-------|-------|-------|--------|---------|--------|--------|---------|-------|-------|
| 1         | 20    | 17      | 29    | 23    | 209   | 26     | 2,000   | 1,120  | 61     | 62      | 30    | 23    |
| 2         | 20    | 17      | 28    | 24    | 182   | 24     | 2,300   | 954    | 174    | 37      | 29    | 23    |
| 3         | 21    | 17      | 28    | 24    | 183   | 22     | 2,710   | 833    | 256    | 21      | 29    | 20    |
| 4         | 21    | 18      | 27    | 21    | 171   | 22     | 2,710   | 925    | 296    | 22      | 30    | 20    |
| 5         | 20    | 19      | 25    | 21    | 153   | 21     | 2,700   | 941    | 345    | 21      | 31    | 20    |
| 6         | 20    | 20      | 25    | 22    | 154   | 22     | 2,640   | 795    | 362    | 20      | 28    | 21    |
| 7         | 20    | 20      | 25    | 23    | 153   | 21     | 2,560   | 626    | 146    | 20      | 18    | 20    |
| 8         | 21    | 20      | 25    | 23    | 156   | 21     | 2,120   | 780    | 71     | 20      | 16    | 20    |
| 9         | 21    | 21      | 27    | 24    | 155   | 21     | 2,010   | 793    | 62     | 19      | 16    | 21    |
| 10        | 21    | 21      | 28    | 25    | 159   | 21     | 2,190   | 1,120  | 46     | 32      | 15    | 21    |
| 11        | 21    | 19      | 29    | 24    | 160   | 22     | 2,290   | 1,130  | 19     | 26      | 15    | 22    |
| 12        | 21    | 19      | 29    | 23    | 160   | 78     | 2,290   | 1,130  | 23     | 16      | 16    | 22    |
| 13        | 20    | 20      | 30    | 24    | 161   | 280    | 2,160   | 1,140  | 24     | 24      | 15    | 22    |
| 14        | 20    | 20      | 29    | 25    | 167   | 120    | 2,100   | 1,280  | 24     | 25      | 15    | 24    |
| 15        | 19    | 19      | 29    | 24    | 165   | 122    | 1,990   | 1,410  | 23     | 24      | 15    | 22    |
| 16        | 20    | 20      | 30    | 23    | 151   | 87     | 1,980   | 1,040  | 59     | 22      | 16    | 22    |
| 17        | 25    | 20      | 28    | 24    | 151   | 39     | 1,580   | 718    | 271    | 20      | 15    | 20E   |
| 18        | 26    | 20      | 27    | 25    | 162   | 134    | 1,640   | 682    | 422    | 19      | 15    | 22E   |
| 19        | 21    | 21      | 24    | 25    | 172   | 277    | 1,730   | 725    | 537    | 21      | 15    | 22E   |
| 20        | 20    | 20      | 30    | 25    | 206   | 310    | 1,530   | 516    | 632    | 21      | 17    | 22E   |
| 21        | 21    | 20      | 23    | 25    | 231   | 300    | 1,400   | 294    | 860    | 21      | 23    | 22    |
| 22        | 20    | 20      | 18    | 25    | 224   | 297    | 1,360   | 203    | 982    | 21      | 24    | 19    |
| 23        | 19    | 20      | 39    | 26    | 200   | 308    | 1,320   | 157    | 801    | 21      | 25    | 19    |
| 24        | 19    | 20      | 44    | 74    | 173   | 330    | 1,250   | 104    | 718    | 20      | 25    | 19    |
| 25        | 19    | 18      | 41    | 191   | 172   | 560    | 1,130   | 105    | 210    | 20      | 25    | 19    |
| 26        | 18    | 20      | 32    | 132   | 127   | 869    | 978     | 106    | 41     | 21      | 24    | 20    |
| 27        | 18    | 28      | 23    | 140   | 37    | 1,110  | 1,010   | 145    | 43     | 22      | 23    | 20    |
| 28        | 19    | 28      | 22    | 195   | 34    | 1,330  | 926     | 195    | 42     | 23      | 23    | 20    |
| 29        | 18    | 28      | 22    | 228   | 47    | 1,570  | 867     | 207    | 43     | 31      | 24    | 20    |
| 30        | 18    | -----   | 22    | 221   | 38    | 1,790  | 992     | 116    | 43     | 29      | 24    | 14    |
| 31        | 18    | -----   | 23    | ----- | 28    | -----  | 1,120   | 65     | -----  | 29      | ----- | 0     |
| TOTAL     | 625   | 590     | 861   | 1,729 | 4,641 | 10,154 | 55,583  | 20,355 | 7,636  | 750     | 636   | 621   |
| MEAN      | 20.2  | 20.3    | 27.8  | 57.6  | 150   | 338    | 1,793   | 657    | 255    | 24.2    | 21.2  | 20.0  |
| MAX       | 26    | 28      | 44    | 228   | 231   | 1,790  | 2,710   | 1,410  | 982    | 62      | 31    | 24    |
| MIN       | 18    | 17      | 18    | 21    | 28    | 21     | 867     | 65     | 19     | 16      | 15    | 0     |
| AC-FT     | 1,240 | 1,170   | 1,710 | 3,430 | 9,210 | 20,140 | 110,200 | 40,370 | 15,150 | 1,490   | 1,260 | 1,230 |
| YEAR 1996 | TOTAL | 104,181 | MEAN  | 285   | MAX   | 2,710  | MIN     | 0      | AC-FT  | 206,600 |       |       |

## NORTH PLATTE RIVER BASIN

KEITH - LINCOLN COUNTY CANAL from North Platte River. 00076000 - 1996

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

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

PERIOD OF RECORD.--1918 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN      | JUL      | AUG      | SEP   | OCT | NOV | DEC |
|-----------|-----|-------|-----|-------|-------|----------|----------|----------|-------|-----|-----|-----|
| 1         |     |       |     | 0     | 22    | 29       | 102      | .31      | 49    |     |     |     |
| 2         |     |       |     | 0     | 4.9   | 29       | 102      | .37      | 47    |     |     |     |
| 3         |     |       |     | 0     | 54    | 36       | 99       | .44      | 48    |     |     |     |
| 4         |     |       |     | 0     | 47    | 51       | 100      | 20       | 48    |     |     |     |
| 5         |     |       |     | 0     | 23    | 49       | 102      | 41       | 46    |     |     |     |
| 6         |     |       |     | 0     | 38    | 49       | 103      | 3.3      | 46    |     |     |     |
| 7         |     |       |     | 0     | 37    | 12       | 102      | 16       | 45    |     |     |     |
| 8         |     |       |     | 0     | 34    | 29       | 100      | 79       | 45    |     |     |     |
| 9         |     |       |     | 0     | 32    | 29       | 100      | 78       | 44    |     |     |     |
| 10        |     |       |     | 0     | 31    | 29       | 98       | 78       | 45    |     |     |     |
| 11        |     |       |     | 0     | 31    | 35       | 95       | 78       | 40    |     |     |     |
| 12        |     |       |     | 0     | 31    | 43       | 96       | 85       | 36    |     |     |     |
| 13        |     |       |     | 0     | 31    | 41       | 95       | 90       | 36    |     |     |     |
| 14        |     |       |     | 0     | 31    | 32       | 95       | 92       | 26    |     |     |     |
| 15        |     |       |     | 0     | 31    | 30       | 96       | 60       | 4.2   |     |     |     |
| 16        |     |       |     | 0     | 31    | 3.1      | 98       | 4.6      | 7.5   |     |     |     |
| 17        |     |       |     | 0     | 32    | 22       | 98       | 2.8      | 26    |     |     |     |
| 18        |     |       |     | 0     | 32    | 46       | 97       | 35       | 24    |     |     |     |
| 19        |     |       |     | 0     | 31    | 28       | 95       | 52       | 14    |     |     |     |
| 20        |     |       |     | 0     | 31    | 3.7      | 90       | 43       | 29    |     |     |     |
| 21        |     |       |     | 0     | 30    | 1.4      | 90       | 42       | 2.7   |     |     |     |
| 22        |     |       |     | 0     | 30    | .41      | 90       | 42       | 16    |     |     |     |
| 23        |     |       |     | 0     | 31    | .01      | 90       | 42       | 19    |     |     |     |
| 24        |     |       |     | 0     | 31    | 0        | 89       | 42       | 4.1   |     |     |     |
| 25        |     |       |     | 0     | 31    | 0        | 73       | 46       | 2.8   |     |     |     |
| 26        |     |       |     | 0     | 31    | 40       | .71      | 53       | 12    |     |     |     |
| 27        |     |       |     | 0     | 31    | 82       | .22      | 72       | 17    |     |     |     |
| 28        |     |       |     | 7.6   | 30    | 81       | .08      | 79       | 3.6   |     |     |     |
| 29        |     |       |     | 28    | 31    | 83       | .13      | 64       | 1.4   |     |     |     |
| 30        |     | ----- |     | 24    | 31    | 94       | .17      | 48       | 0     |     |     |     |
| 31        |     | ----- |     | ----- | 33    | -----    | .23      | 49       | ----- |     |     |     |
| TOTAL     |     |       |     | 59.6  | 974.9 | 1,007.62 | 2,396.54 | 1,457.82 | 783.3 |     |     |     |
| MEAN      |     |       |     | 1.99  | 31.4  | 33.6     | 77.3     | 47.0     | 26.1  |     |     |     |
| MAX       |     |       |     | 28    | 54    | 94       | 103      | 92       | 49    |     |     |     |
| MIN       |     |       |     | 0     | 4.9   | 0        | .08      | .31      | 0     |     |     |     |
| AC-FT     |     |       |     | 118   | 1,930 | 2,000    | 4,750    | 2,890    | 1,550 |     |     |     |
| YEAR 1996 | MAX | 103   | MIN | 0     | AC-FT | 13,250   |          |          |       |     |     |     |

# NORTH PLATTE RIVER BASIN

**NORTH PLATTE CANAL from North Platte River, 00114000 - 1996**

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

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

PERIOD OF RECORD.--1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB | MAR | APR   | MAY   | JUN      | JUL    | AUG     | SEP   | OCT | NOV   | DEC |
|-----------|-----|-----|-----|-------|-------|----------|--------|---------|-------|-----|-------|-----|
| 1         |     |     |     | 0     | 67    | 44       | 322    | 117     | 6.4   | 0   |       |     |
| 2         |     |     |     | 0     | 66    | 21       | 330    | 118     | 34    | 0   |       |     |
| 3         |     |     |     | 0     | 66    | 15       | 327    | 116     | 80    | 0   |       |     |
| 4         |     |     |     | 0     | 65    | 10       | 336    | 135     | 140   | 0   |       |     |
| 5         |     |     |     | 0     | 65    | 5.4      | 338    | 140     | 166   | 0   |       |     |
| 6         |     |     |     | 0     | 70    | .34      | 352    | 132     | 189   | 0   |       |     |
| 7         |     |     |     | 0     | 78    | 0        | 324    | 141     | 52    | 0   |       |     |
| 8         |     |     |     | 0     | 81    | 0        | 220    | 165     | 23    | 0   |       |     |
| 9         |     |     |     | 0     | 81    | 0        | 241    | 209     | 20    | 0   |       |     |
| 10        |     |     |     | 0     | 85    | 0        | 274    | 232     | 9.8   | 0   |       |     |
| 11        |     |     |     | 0     | 86    | 4.8      | 288    | 274     | 0     | 0   |       |     |
| 12        |     |     |     | 0     | 83    | 33       | 296    | 293     | 0     | 0   |       |     |
| 13        |     |     |     | 0     | 80    | 40       | 298    | 313     | 0     | 0   |       |     |
| 14        |     |     |     | 0     | 86    | 66       | 301    | 313     | 0     | 0   |       |     |
| 15        |     |     |     | 0     | 102   | 65       | 311    | 291     | 0     | 0   |       |     |
| 16        |     |     |     | 0     | 106   | 70       | 285    | 185     | 0     | 0   |       |     |
| 17        |     |     |     | 0     | 111   | 63       | 274    | 136     | 0     | 0   |       |     |
| 18        |     |     |     | 0     | 110   | 52       | 242    | 133     | 0     | 0   |       |     |
| 19        |     |     |     | 0     | 111   | 71       | 160    | 105     | 0     | 0   |       |     |
| 20        |     |     |     | 0     | 114   | 100      | 11     | 83      | 0     | 0   |       |     |
| 21        |     |     |     | 0     | 112   | 97       | 85     | 79      | 0     | 0   |       |     |
| 22        |     |     |     | 0     | 107   | 104      | 0      | 78      | 0     | 0   |       |     |
| 23        |     |     |     | 5.9   | 101   | 114      | 0      | 73      | 0     | 0   |       |     |
| 24        |     |     |     | 43    | 94    | 113      | 0      | 66      | 0     | 0   |       |     |
| 25        |     |     |     | 70    | 95    | 122      | 0      | 61      | 0     | 0   |       |     |
| 26        |     |     |     | 71    | 81    | 165      | 112    | 29      | 0     | 0   |       |     |
| 27        |     |     |     | 68    | 76    | 211      | 106    | 2.1     | 0     | 0   |       |     |
| 28        |     |     |     | 60    | 65    | 275      | 116    | 2.0     | 0     | 0   |       |     |
| 29        |     |     |     | 65    | 49    | 310      | 132    | 2.6     | 0     | 0   |       |     |
| 30        |     |     |     | 72    | 49    | 318      | 155    | 4.0     | 0     | 0   |       |     |
| 31        |     |     |     | ----- | 51    | -----    | 127    | 3.6     | ----- | 0   | ----- |     |
| TOTAL     |     |     |     | 454.9 | 2,583 | 2,489.54 | 6,363  | 4,031.5 | 720.2 | 0   |       |     |
| MEAN      |     |     |     | 15.2  | 83.3  | 83.0     | 205    | 130     | 24.0  | 0   |       |     |
| MAX       |     |     |     | 72    | 114   | 318      | 352    | 313     | 189   | 0   |       |     |
| MIN       |     |     |     | 0     | 49    | 0        | 0      | 2.0     | 0     | 0   |       |     |
| AC-FT     |     |     |     | 902   | 5,120 | 4,940    | 12,620 | 8,000   | 1,430 | 0   |       |     |
| YEAR 1996 | MAX | 352 | MIN | 0     | AC-FT | 33,010   |        |         |       |     |       |     |



# NORTH PLATTE RIVER BASIN

**PAXTON-HERSHEY CANAL from North Platte River, 00121000 - 1996**

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 FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN     | JUL   | AUG     | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|---------|-------|---------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 34    | 28      | 116   | 55      | 27    | 0   |       |     |
| 2         |     |       |     | 0     | 40    | 27      | 116   | 53      | 25    | 0   |       |     |
| 3         |     |       |     | 0     | 45    | 27      | 113   | 49      | 38    | 0   |       |     |
| 4         |     |       |     | 0     | 44    | 27      | 111   | 49      | 52    | 0   |       |     |
| 5         |     |       |     | 0     | 44    | 26      | 114   | 51      | 64    | 0   |       |     |
| 6         |     |       |     | 0     | 43    | 26      | 113   | 50      | 61    | 0   |       |     |
| 7         |     |       |     | 0     | 43    | 26      | 113   | 45      | 41    | 0   |       |     |
| 8         |     |       |     | 0     | 42    | 25      | 113   | 56      | 26    | 0   |       |     |
| 9         |     |       |     | 0     | 42    | 24      | 111   | 70      | 16    | 0   |       |     |
| 10        |     |       |     | 0     | 41    | 22      | 110   | 63      | 16    | 0   |       |     |
| 11        |     |       |     | 0     | 41    | 16      | 112   | 93      | 16    | 0   |       |     |
| 12        |     |       |     | 0     | 41    | 9.8     | 113   | 105     | 15    | 0   |       |     |
| 13        |     |       |     | 0     | 41    | 4.0     | 112   | 118     | 15    | 0   |       |     |
| 14        |     |       |     | 0     | 40    | 20      | 112   | 116     | 15    | 0   |       |     |
| 15        |     |       |     | 0     | 40    | 35      | 111   | 100     | 16    | 0   |       |     |
| 16        |     |       |     | 0     | 36    | 34      | 101   | 82      | 11    | 0   |       |     |
| 17        |     |       |     | 0     | 36    | 34      | 99    | 65      | 6.3   | 0   |       |     |
| 18        |     |       |     | 0     | 34    | 21      | 99    | 64      | 3.0   | 0   |       |     |
| 19        |     |       |     | 0     | 36    | 24      | 97    | 66      | 0     | 0   |       |     |
| 20        |     |       |     | 0     | 42    | 38      | 59    | 49      | 0     | 0   |       |     |
| 21        |     |       |     | 0     | 45    | 37      | 55    | 36      | 0     | 0   |       |     |
| 22        |     |       |     | 0     | 49    | 37      | 54    | 26      | 0     | 0   |       |     |
| 23        |     |       |     | 0     | 51    | 36      | 54    | 14      | 0     | 0   |       |     |
| 24        |     |       |     | 2.3   | 51    | 35      | 51    | 5.1     | 0     | 0   |       |     |
| 25        |     |       |     | 15    | 51    | 36      | 46    | 3.6     | 0     | 0   |       |     |
| 26        |     |       |     | 29    | 51    | 47      | 45    | 33      | 0     | 0   |       |     |
| 27        |     |       |     | 34    | 35    | 62      | 44    | 39      | 0     | 0   |       |     |
| 28        |     |       |     | 34    | 29    | 88      | 46    | 39      | 0     | 0   |       |     |
| 29        |     |       |     | 34    | 28    | 106     | 54    | 41      | 0     | 0   |       |     |
| 30        |     | ----- |     | 34    | 27    | 112     | 65    | 34      | 0     | 0   |       |     |
| 31        |     | ----- |     | ----- | 28    | -----   | 65    | 28      | ----- | 0   | ----- |     |
| TOTAL     |     |       |     | 182.3 | 1,254 | 1,089.8 | 2,724 | 1,717.7 | 463.3 | 0   |       |     |
| MEAN      |     |       |     | 6.08  | 40.5  | 36.3    | 87.9  | 55.4    | 15.4  | 0   |       |     |
| MAX       |     |       |     | 34    | 51    | 112     | 116   | 118     | 64    | 0   |       |     |
| MIN       |     |       |     | 0     | 27    | 4.0     | 44    | 3.6     | 0     | 0   |       |     |
| AC-FT     |     |       |     | 362   | 2,490 | 2,160   | 5,400 | 3,410   | 919   | 0   |       |     |
| YEAR 1996 | MAX | 118   | MIN | 0     | AC-FT | 14,740  |       |         |       |     |       |     |

# NORTH PLATTE RIVER BASIN

**NORTH PLATTE RIVER near Sutherland, 06691000 - 1996**

LOCATION.--SW1/4SW1/4 Sec. 4-14-33 W.

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 FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN     | JUL    | AUG    | SEP    | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|---------|--------|--------|--------|-----|-------|-----|
| 1         |     |       |     |       | 172   | 153     | 993    | 1,020  | 169    |     |       |     |
| 2         |     |       |     |       | 173   | 146     | 1,180  | 1,050  | 125    |     |       |     |
| 3         |     |       |     |       | 156   | 130     | 1,430  | 817    | 122    |     |       |     |
| 4         |     |       |     |       | 135   | 117     | 1,730  | 714    | 104    |     |       |     |
| 5         |     |       |     |       | 156   | 115     | 1,810  | 847    | 104    |     |       |     |
| 6         |     |       |     |       | 116   | 135     | 1,810  | 824    | 132    |     |       |     |
| 7         |     |       |     |       | 109   | 151     | 1,820  | 658    | 479    |     |       |     |
| 8         |     |       |     |       | 110   | 121     | 1,910  | 458    | 340    |     |       |     |
| 9         |     |       |     |       | 117   | 116     | 1,470  | 540    | 251    |     |       |     |
| 10        |     |       |     |       | 126   | 108     | 1,350  | 688    | 233    |     |       |     |
| 11        |     |       |     |       | 117   | 96      | 1,490  | 718    | 213    |     |       |     |
| 12        |     |       |     |       | 117   | 73      | 1,640  | 699    | 195    |     |       |     |
| 13        |     |       |     |       | 116   | 78      | 1,570  | 664    | 188    |     |       |     |
| 14        |     |       |     |       | 115   | 172     | 1,490  | 680    | 180    |     |       |     |
| 15        |     |       |     |       | 100   | 120     | 1,420  | 882    | 229    |     |       |     |
| 16        |     |       |     |       | 82    | 140     | 1,460  | 1,200  | 241    |     |       |     |
| 17        |     |       |     |       | 72    | 121     | 1,200  | 860    | 224    |     |       |     |
| 18        |     |       |     |       | 68    | 72      | 1,070  | 664    | 422    |     |       |     |
| 19        |     |       |     |       | 71    | 65      | 1,280  | 726    | 683    |     |       |     |
| 20        |     |       |     |       | 75    | 123     | 1,520  | 676    | 861    |     |       |     |
| 21        |     |       |     |       | 99    | 176     | 1,300  | 509    | 845    |     |       |     |
| 22        |     |       |     |       | 133   | 178     | 1,200  | 395    | 1,050  |     |       |     |
| 23        |     |       |     |       | 142   | 170     | 1,180  | 296    | 1,020  |     |       |     |
| 24        |     |       |     |       | 152   | 162     | 1,220  | 257    | 1,000  |     |       |     |
| 25        |     |       |     |       | 138   | 171     | 1,110  | 218    | 810    |     |       |     |
| 26        |     |       |     |       | 210   | 280     | 1,170  | 196    | 440    |     |       |     |
| 27        |     |       |     |       | 304   | 420     | 970    | 193    | 276    |     |       |     |
| 28        |     |       |     |       | 207   | 566     | 958    | 186    | 267    |     |       |     |
| 29        |     |       |     |       | 155   | 680     | 878    | 240    | 228    |     |       |     |
| 30        |     | ----- |     |       | 120   | 814     | 771    | 286    | 223    |     |       |     |
| 31        |     | ----- |     | ----- | 181   | -----   | 1,070  | 226    | -----  |     | ----- |     |
| TOTAL     |     |       |     |       | 4,144 | 5,969   | 41,470 | 18,387 | 11,654 |     |       |     |
| MEAN      |     |       |     |       | 134   | 199     | 1,338  | 593    | 388    |     |       |     |
| MAX       |     |       |     |       | 304   | 814     | 1,910  | 1,200  | 1,050  |     |       |     |
| MIN       |     |       |     |       | 68    | 65      | 771    | 186    | 104    |     |       |     |
| AC-FT     |     |       |     |       | 8,220 | 11,840  | 82,260 | 36,470 | 23,120 |     |       |     |
| YEAR 1996 | MAX | 1,910 | MIN | 65    | AC-FT | 161,900 |        |        |        |     |       |     |

## NORTH PLATTE RIVER BASIN

## BIRDWOOD CANAL from Birdwood Creek, 00016000 - 1996

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

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

PERIOD OF RECORD.--1921 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT  | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|------|-------|-----|
| 1         |     |       |     | 0     | 0     | 24    | 30    | 17    | 25    | 7.4  |       |     |
| 2         |     |       |     | 0     | 0     | 23    | 39    | 18    | 25    | 6.7  |       |     |
| 3         |     |       |     | 0     | 0     | 22    | 50    | 15    | 26    | 3.6  |       |     |
| 4         |     |       |     | 0     | 5.6   | 21    | 52    | 15    | 26    | 0    |       |     |
| 5         |     |       |     | 0     | 12    | 22    | 43    | 16    | 26    | 0    |       |     |
| 6         |     |       |     | 0     | 12    | 21    | 43    | 15    | 27    | 0    |       |     |
| 7         |     |       |     | 0     | 16    | 21    | 39    | 14    | 25    | 0    |       |     |
| 8         |     |       |     | 0     | 24    | 20    | 36    | 14    | 21    | 0    |       |     |
| 9         |     |       |     | 0     | 24    | 19    | 25    | 16    | 18    | 0    |       |     |
| 10        |     |       |     | 0     | 31    | 18    | 24    | 21    | 18    | 0    |       |     |
| 11        |     |       |     | 0     | 28    | 18    | 25    | 22    | 18    | 0    |       |     |
| 12        |     |       |     | 0     | 26    | 18    | 25    | 22    | 18    | 0    |       |     |
| 13        |     |       |     | 0     | 12    | 18    | 25    | 25    | 18    | 0    |       |     |
| 14        |     |       |     | 0     | 15    | 18    | 25    | 46    | 18    | 0    |       |     |
| 15        |     |       |     | 0     | 18    | 18    | 25    | 46    | 20    | 0    |       |     |
| 16        |     |       |     | 0     | 23    | 19    | 27    | 32    | 20    | 0    |       |     |
| 17        |     |       |     | 0     | 23    | 20    | 23    | 21    | 19    | 0    |       |     |
| 18        |     |       |     | 0     | 22    | 24    | 26    | 22    | 22    | 0    |       |     |
| 19        |     |       |     | 0     | 22    | 38    | 32    | 22    | 21    | 0    |       |     |
| 20        |     |       |     | 0     | 22    | 39    | 24    | 20    | 19    | 0    |       |     |
| 21        |     |       |     | 0     | 22    | 38    | 21    | 19    | 10    | 0    |       |     |
| 22        |     |       |     | 0     | 21    | 41    | 22    | 21    | 9.8   | 0    |       |     |
| 23        |     |       |     | 0     | 20    | 43    | 28    | 13    | 10    | 0    |       |     |
| 24        |     |       |     | 0     | 19    | 42    | 22    | 9.5   | 10    | 0    |       |     |
| 25        |     |       |     | 0     | 21    | 42    | 22    | 9.7   | 11    | 0    |       |     |
| 26        |     |       |     | 0     | 22    | 43    | 23    | 12    | 11    | 0    |       |     |
| 27        |     |       |     | 0     | 31    | 38    | 21    | 22    | 10    | 0    |       |     |
| 28        |     |       |     | 0     | 25    | 28    | 21    | 22    | 8.9   | 0    |       |     |
| 29        |     |       |     | 0     | 23    | 30    | 19    | 23    | 9.6   | 0    |       |     |
| 30        |     | ----- |     | 0     | 24    | 29    | 20    | 24    | 8.1   | 0    |       |     |
| 31        |     | ----- |     | ----- | 25    | ----- | 20    | 25    | ----- | 0    | ----- |     |
| TOTAL     |     |       |     | 0     | 588.6 | 815   | 877   | 639.2 | 528.4 | 17.7 |       |     |
| MEAN      |     |       |     | 0     | 19.0  | 27.2  | 28.3  | 20.6  | 17.6  | .57  |       |     |
| MAX       |     |       |     | 0     | 31    | 43    | 52    | 46    | 27    | 7.4  |       |     |
| MIN       |     |       |     | 0     | 0     | 18    | 19    | 9.5   | 8.1   | 0    |       |     |
| AC-FT     |     |       |     | 0     | 1,170 | 1,620 | 1,740 | 1,270 | 1,050 | 35   |       |     |
| YEAR 1996 | MAX | 52    | MIN | 0     | AC-FT | 6,870 |       |       |       |      |       |     |

# NORTH PLATTE RIVER BASIN

**BIRDWOOD CREEK near Hershey, 06692000 - 1996**

LOCATION.--NE1/4NW1/4 Sec. 2-14-33 W.

GAGE.--Continuous stage recorder

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

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 171   | 147    | 115   | 158   | 126   |     |       |     |
| 2         |     |       |     |       | 170   | 134    | 119   | 169   | 125   |     |       |     |
| 3         |     |       |     |       | 171   | 130    | 114   | 155   | 125   |     |       |     |
| 4         |     |       |     |       | 159   | 131    | 110   | 150   | 121   |     |       |     |
| 5         |     |       |     |       | 148   | 134    | 112   | 170   | 120   |     |       |     |
| 6         |     |       |     |       | 144   | 151    | 114   | 148   | 122   |     |       |     |
| 7         |     |       |     |       | 139   | 136    | 119   | 142   | 162   |     |       |     |
| 8         |     |       |     |       | 129   | 132    | 155   | 138   | 159   |     |       |     |
| 9         |     |       |     |       | 134   | 133    | 131   | 131   | 140   |     |       |     |
| 10        |     |       |     |       | 143   | 134    | 129   | 123   | 138   |     |       |     |
| 11        |     |       |     |       | 125   | 135    | 129   | 121   | 136   |     |       |     |
| 12        |     |       |     |       | 129   | 136    | 128   | 120   | 135   |     |       |     |
| 13        |     |       |     |       | 135   | 133    | 125   | 118   | 134   |     |       |     |
| 14        |     |       |     |       | 132   | 134    | 125   | 129   | 134   |     |       |     |
| 15        |     |       |     |       | 133   | 137    | 124   | 133   | 145   |     |       |     |
| 16        |     |       |     |       | 142   | 157    | 132   | 157   | 150   |     |       |     |
| 17        |     |       |     |       | 142   | 138    | 127   | 134   | 146   |     |       |     |
| 18        |     |       |     |       | 131   | 135    | 124   | 121   | 175   |     |       |     |
| 19        |     |       |     |       | 127   | 130    | 141   | 147   | 230   |     |       |     |
| 20        |     |       |     |       | 131   | 126    | 154   | 134   | 257   |     |       |     |
| 21        |     |       |     |       | 130   | 130    | 139   | 128   | 187   |     |       |     |
| 22        |     |       |     |       | 130   | 129    | 141   | 140   | 180   |     |       |     |
| 23        |     |       |     |       | 133   | 132    | 180   | 132   | 172   |     |       |     |
| 24        |     |       |     |       | 145   | 127    | 142   | 135   | 165   |     |       |     |
| 25        |     |       |     |       | 147   | 127    | 138   | 137   | 172   |     |       |     |
| 26        |     |       |     |       | 189   | 126    | 162   | 134   | 159   |     |       |     |
| 27        |     |       |     |       | 231   | 125    | 144   | 124   | 154   |     |       |     |
| 28        |     |       |     |       | 154   | 122    | 153   | 122   | 160   |     |       |     |
| 29        |     |       |     |       | 138   | 121    | 150   | 123   | 162   |     |       |     |
| 30        |     | ----- |     |       | 136   | 114    | 143   | 123   | 164   |     |       |     |
| 31        |     | ----- |     | ----- | 173   | -----  | 187   | 128   | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 4,541 | 3,976  | 4,206 | 4,224 | 4,655 |     |       |     |
| MEAN      |     |       |     |       | 146   | 133    | 136   | 136   | 155   |     |       |     |
| MAX       |     |       |     |       | 231   | 157    | 187   | 170   | 257   |     |       |     |
| MIN       |     |       |     |       | 125   | 114    | 110   | 118   | 120   |     |       |     |
| AC-FT     |     |       |     |       | 9,010 | 7,890  | 8,340 | 8,380 | 9,230 |     |       |     |
| YEAR 1996 | MAX | 257   | MIN | 110   | AC-FT | 42,850 |       |       |       |     |       |     |

## NORTH PLATTE RIVER BASIN

## SUBURBAN CANAL from North Platte River, 00136000 - 1996

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

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

PERIOD OF RECORD.--1919, 1921 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN     | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|---------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 28    | 47      | 84    | 76    | 0     | 0   |       |     |
| 2         |     |       |     | 0     | 29    | 46      | 84    | 76    | 0     | 0   |       |     |
| 3         |     |       |     | 0     | 28    | 45      | 84    | 67    | 0     | 0   |       |     |
| 4         |     |       |     | 0     | 28    | 46      | 85    | 65    | 0     | 0   |       |     |
| 5         |     |       |     | 0     | 28    | 46      | 85    | 67    | 0     | 0   |       |     |
| 6         |     |       |     | 0     | 27    | 46      | 85    | 66    | 0     | 0   |       |     |
| 7         |     |       |     | 0     | 28    | 51      | 82    | 67    | 0     | 0   |       |     |
| 8         |     |       |     | 0     | 42    | 51      | 16    | 64    | 0     | 0   |       |     |
| 9         |     |       |     | 0     | 42    | 28      | 36    | 68    | 0     | 0   |       |     |
| 10        |     |       |     | 0     | 42    | 9.1     | 65    | 72    | 0     | 0   |       |     |
| 11        |     |       |     | 0     | 27    | 9.4     | 68    | 74    | 0     | 0   |       |     |
| 12        |     |       |     | 0     | 27    | 9.7     | 67    | 74    | 0     | 0   |       |     |
| 13        |     |       |     | 0     | 27    | 9.5     | 63    | 73    | 0     | 0   |       |     |
| 14        |     |       |     | 0     | 28    | 8.5     | 63    | 79    | 0     | 0   |       |     |
| 15        |     |       |     | 0     | 28    | 7.4     | 76    | 80    | 0     | 0   |       |     |
| 16        |     |       |     | 0     | 39    | 6.1     | 78    | 75    | 0     | 0   |       |     |
| 17        |     |       |     | 0     | 49    | 33      | 76    | 64    | 0     | 0   |       |     |
| 18        |     |       |     | 0     | 49    | 59      | 83    | 58    | 0     | 0   |       |     |
| 19        |     |       |     | 0     | 61    | 58      | 84    | 29    | 0     | 0   |       |     |
| 20        |     |       |     | 0     | 70    | 61      | 76    | 0     | 0     | 0   |       |     |
| 21        |     |       |     | 0     | 81    | 61      | 69    | 0     | 0     | 0   |       |     |
| 22        |     |       |     | 0     | 78    | 60      | 70    | 0     | 0     | 0   |       |     |
| 23        |     |       |     | 0     | 76    | 60      | 74    | 0     | 0     | 0   |       |     |
| 24        |     |       |     | 0     | 77    | 61      | 73    | 0     | 0     | 0   |       |     |
| 25        |     |       |     | 0     | 78    | 63      | 70    | 0     | 0     | 0   |       |     |
| 26        |     |       |     | 8.0   | 63    | 65      | 70    | 0     | 0     | 0   |       |     |
| 27        |     |       |     | 25    | 55    | 64      | 67    | 0     | 0     | 0   |       |     |
| 28        |     |       |     | 27    | 51    | 71      | 70    | 0     | 0     | 0   |       |     |
| 29        |     |       |     | 28    | 47    | 73      | 73    | 0     | 0     | 0   |       |     |
| 30        |     | ----- |     | 28    | 45    | 73      | 73    | 0     | 0     | 0   |       |     |
| 31        |     | ----- |     | ----- | 49    | -----   | 79    | 0     | ----- | 0   | ----- |     |
| TOTAL     |     |       |     | 116.0 | 1,427 | 1,327.7 | 2,228 | 1,294 | 0     | 0   |       |     |
| MEAN      |     |       |     | 3.87  | 46.0  | 44.3    | 71.9  | 41.7  | 0     | 0   |       |     |
| MAX       |     |       |     | 28    | 81    | 73      | 85    | 80    | 0     | 0   |       |     |
| MIN       |     |       |     | 0     | 27    | 6.1     | 16    | 0     | 0     | 0   |       |     |
| AC-FT     |     |       |     | 230   | 2,830 | 2,630   | 4,420 | 2,570 | 0     | 0   |       |     |
| YEAR 1996 | MAX | 85    | MIN | 0     | AC-FT | 12,680  |       |       |       |     |       |     |

# NORTH PLATTE RIVER BASIN

**CODY-DILLON CANAL from North Platte River, 00027000 - 1996**

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

GAGE.--Continuous stage recorder and concrete control

PERIOD OF RECORD.--1919, 1921 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB | MAR | APR   | MAY    | JUN   | JUL   | AUG   | SEP   | OCT   | NOV | DEC |
|-----------|-----|-----|-----|-------|--------|-------|-------|-------|-------|-------|-----|-----|
| 1         |     |     |     | 0     | 9.8    | 4.7   | 12    | 17    | 1.0   | 0     |     |     |
| 2         |     |     |     | 0     | 8.5    | 3.6   | 13    | 17    | 0     | 0     |     |     |
| 3         |     |     |     | 0     | 6.0    | 2.2   | 14    | 14    | 0     | 0     |     |     |
| 4         |     |     |     | 0     | 5.0    | 2.1   | 18    | 9.2   | 1.8   | 0     |     |     |
| 5         |     |     |     | 0     | 4.3    | 2.0   | 19    | 12    | 8.2   | 0     |     |     |
| 6         |     |     |     | 0     | 5.4    | 2.2   | 18    | 11    | 11    | 0     |     |     |
| 7         |     |     |     | 0     | 9.2    | 2.4   | 20    | 9.8   | 18    | 0     |     |     |
| 8         |     |     |     | 0     | 8.0    | 2.4   | 27    | 14    | 17    | 0     |     |     |
| 9         |     |     |     | 0     | 7.3    | 2.3   | 17    | 17    | 8.7   | 0     |     |     |
| 10        |     |     |     | 0     | 10     | 2.2   | 8.6   | 21    | 4.0   | 0     |     |     |
| 11        |     |     |     | 0     | 10     | 6.8   | 7.9   | 24    | 1.7   | 0     |     |     |
| 12        |     |     |     | 0     | 11     | 8.1   | 8.2   | 22    | .40   | 0     |     |     |
| 13        |     |     |     | 0     | 11     | 7.8   | 10    | 18    | 0     | 0     |     |     |
| 14        |     |     |     | 0     | 11     | 12    | 10    | 21    | 0     | 0     |     |     |
| 15        |     |     |     | 0     | 9.1    | 13    | 11    | 25    | 0     | 0     |     |     |
| 16        |     |     |     | 0     | 6.3    | 13    | 11    | 25    | 0     | 0     |     |     |
| 17        |     |     |     | 0     | 3.3    | 11    | 9.4   | 16    | 0     | 0     |     |     |
| 18        |     |     |     | 0     | 1.7    | 8.2   | 13    | 12    | 0     | 0     |     |     |
| 19        |     |     |     | 0     | .92    | 5.6   | 19    | 13    | 0     | 0     |     |     |
| 20        |     |     |     | 0     | 1.3    | 5.0   | 18    | 13    | 0     | 0     |     |     |
| 21        |     |     |     | 0     | 1.3    | 6.8   | 16    | 9.9   | 0     | 0     |     |     |
| 22        |     |     |     | 0     | 1.7    | 6.2   | 15    | 7.6   | 0     | 0     |     |     |
| 23        |     |     |     | 0     | 1.3    | 6.4   | 16    | 3.7   | 0     | 0     |     |     |
| 24        |     |     |     | 2.9   | .99    | 5.4   | 15    | 2.4   | 0     | 0     |     |     |
| 25        |     |     |     | 8.1   | .78    | 4.3   | 15    | 2.0   | 0     | 0     |     |     |
| 26        |     |     |     | 7.3   | .93    | 8.9   | 15    | 1.4   | 0     | 0     |     |     |
| 27        |     |     |     | 7.5   | .74    | 13    | 15    | 2.2   | 0     | 0     |     |     |
| 28        |     |     |     | 9.2   | .42    | 12    | 15    | 1.8   | 0     | 0     |     |     |
| 29        |     |     |     | 10    | .35    | 11    | 14    | 1.9   | 0     | 0     |     |     |
| 30        |     |     |     | 10    | .07    | 12    | 13    | 4.6   | 0     | 0     |     |     |
| 31        |     |     |     | ----- | 1.2    | ----- | 16    | 4.9   | ----- | ----- |     |     |
| TOTAL     |     |     |     | 55.0  | 148.90 | 202.6 | 449.1 | 373.4 | 71.80 | 0     |     |     |
| MEAN      |     |     |     | 1.83  | 4.80   | 6.75  | 14.5  | 12.0  | 2.39  | 0     |     |     |
| MAX       |     |     |     | 10    | 11     | 13    | 27    | 25    | 18    | 0     |     |     |
| MIN       |     |     |     | 0     | .07    | 2.0   | 7.9   | 1.4   | 0     | 0     |     |     |
| AC-FT     |     |     |     | 109   | 295    | 402   | 891   | 741   | 142   | 0     |     |     |
| YEAR 1996 | MAX | 27  | MIN | 0     | AC-FT  | 2,580 |       |       |       |       |     |     |

## NORTH PLATTE RIVER BASIN

LINCOLN COUNTY DRAIN NO. 1 at North Platte, 06692500 - 1996

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1931 - 1932, 1955 - 1992, all year record, 1993 - present, May - September partial year record.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 45    | 67     | 67    | 110   | 70    |     |       |     |
| 2         |     |       |     |       | 45    | 59     | 69    | 110   | 68    |     |       |     |
| 3         |     |       |     |       | 43    | 53     | 64    | 101   | 68    |     |       |     |
| 4         |     |       |     |       | 41    | 53     | 61    | 92    | 74    |     |       |     |
| 5         |     |       |     |       | 45    | 52     | 70    | 109   | 81    |     |       |     |
| 6         |     |       |     |       | 45    | 52     | 69    | 106   | 101   |     |       |     |
| 7         |     |       |     |       | 47    | 51     | 73    | 106   | 112   |     |       |     |
| 8         |     |       |     |       | 44    | 51     | 107   | 102   | 87    |     |       |     |
| 9         |     |       |     |       | 48    | 50     | 105   | 96    | 83    |     |       |     |
| 10        |     |       |     |       | 54    | 49     | 100   | 86    | 77    |     |       |     |
| 11        |     |       |     |       | 56    | 48     | 99    | 95    | 68    |     |       |     |
| 12        |     |       |     |       | 53    | 46     | 106   | 111   | 65    |     |       |     |
| 13        |     |       |     |       | 53    | 48     | 108   | 103   | 64    |     |       |     |
| 14        |     |       |     |       | 45    | 63     | 105   | 114   | 63    |     |       |     |
| 15        |     |       |     |       | 37    | 66     | 98    | 137   | 64    |     |       |     |
| 16        |     |       |     |       | 37    | 69     | 116   | 171   | 62    |     |       |     |
| 17        |     |       |     |       | 41    | 63     | 115   | 139   | 61    |     |       |     |
| 18        |     |       |     |       | 45    | 52     | 99    | 125   | 63    |     |       |     |
| 19        |     |       |     |       | 49    | 55     | 130   | 150   | 84    |     |       |     |
| 20        |     |       |     |       | 51    | 64     | 154   | 130   | 113   |     |       |     |
| 21        |     |       |     |       | 55    | 70     | 103   | 118   | 93    |     |       |     |
| 22        |     |       |     |       | 53    | 67     | 91    | 114   | 87    |     |       |     |
| 23        |     |       |     |       | 56    | 73     | 88    | 108   | 81    |     |       |     |
| 24        |     |       |     |       | 61    | 69     | 86    | 97    | 78    |     |       |     |
| 25        |     |       |     |       | 63    | 69     | 83    | 91    | 77    |     |       |     |
| 26        |     |       |     |       | 73    | 70     | 92    | 84    | 74    |     |       |     |
| 27        |     |       |     |       | 89    | 73     | 126   | 78    | 72    |     |       |     |
| 28        |     |       |     |       | 82    | 68     | 107   | 74    | 70    |     |       |     |
| 29        |     |       |     |       | 68    | 62     | 112   | 72    | 68    |     |       |     |
| 30        |     |       |     |       | 61    | 63     | 114   | 71    | 67    |     |       |     |
| 31        |     | ----- |     | ----- | 70    | -----  | 123   | 71    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 1,655 | 1,795  | 3,040 | 3,271 | 2,295 |     |       |     |
| MEAN      |     |       |     |       | 53.4  | 59.8   | 98.1  | 106   | 76.5  |     |       |     |
| MAX       |     |       |     |       | 89    | 73     | 154   | 171   | 113   |     |       |     |
| MIN       |     |       |     |       | 37    | 46     | 61    | 71    | 61    |     |       |     |
| AC-FT     |     |       |     |       | 3,280 | 3,560  | 6,030 | 6,490 | 4,550 |     |       |     |
| YEAR 1996 | MAX | 171   | MIN | 37    | AC-FT | 23,910 |       |       |       |     |       |     |

# NORTH PLATTE RIVER BASIN

## NORTH PLATTE RIVER at North Platte, 06693000 - 1996

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

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

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

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994  
 E indicates estimated daily discharge. Estimated records January 1-February 15, 28-March 11, 24-28, November 16-29, December 17-31. Records good except estimated 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 2,220 cubic feet per second July 9, gage height 5.22; minimum daily discharge 240 cubic feet per second estimated February 3.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT     | NOV    | DEC    |
|-----------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1         | 300E   | 250E    | 330E   | 351    | 357    | 640    | 716    | 1,320  | 430    | 498     | 396    | 370    |
| 2         | 320E   | 250E    | 330E   | 344    | 376    | 515    | 886    | 1,290  | 404    | 474     | 401    | 364    |
| 3         | 320E   | 240E    | 340E   | 331    | 381    | 437    | 1,070  | 1,260  | 381    | 459     | 398    | 357    |
| 4         | 330E   | 250E    | 340E   | 342    | 368    | 388    | 1,350  | 1,000  | 372    | 454     | 396    | 369    |
| 5         | 300E   | 260E    | 340E   | 341    | 358    | 366    | 1,640  | 1,080  | 344    | 470     | 394    | 373    |
| 6         | 280E   | 280E    | 330E   | 336    | 351    | 359    | 1,730  | 1,040  | 359    | 468     | 383    | 369    |
| 7         | 270E   | 290E    | 330E   | 331    | 328    | 397    | 1,810  | 942    | 681    | 456     | 373    | 362    |
| 8         | 260E   | 300E    | 320E   | 325    | 312    | 366    | 2,090  | 810    | 775    | 455     | 350    | 352    |
| 9         | 280E   | 320E    | 320E   | 320    | 315    | 340    | 2,080  | 679    | 561    | 446     | 358    | 353    |
| 10        | 300E   | 320E    | 330E   | 306    | 373    | 332    | 1,730  | 671    | 467    | 441     | 366    | 354    |
| 11        | 310E   | 360E    | 340E   | 304    | 367    | 312    | 1,610  | 729    | 432    | 459     | 367    | 356    |
| 12        | 320E   | 365E    | 345    | 296    | 354    | 309    | 1,760  | 760    | 428    | 478     | 354    | 356    |
| 13        | 330E   | 365E    | 328    | 304    | 353    | 306    | 1,830  | 744    | 433    | 450     | 356    | 355    |
| 14        | 340E   | 360E    | 333    | 325    | 334    | 337    | 1,730  | 786    | 425    | 428     | 356    | 357    |
| 15        | 360E   | 360E    | 348    | 332    | 308    | 399    | 1,640  | 865    | 484    | 417     | 353    | 337    |
| 16        | 365E   | 359     | 355    | 321    | 280    | 450    | 1,720  | 1,220  | 551    | 412     | 350E   | 354    |
| 17        | 350E   | 351     | 358    | 307    | 272    | 437    | 1,610  | 1,420  | 514    | 418     | 350E   | 330E   |
| 18        | 300E   | 356     | 360    | 302    | 266    | 340    | 1,300  | 1,100  | 629    | 406     | 340E   | 320E   |
| 19        | 280E   | 354     | 352    | 306    | 270    | 292    | 1,310  | 1,210  | 1,130  | 419     | 340E   | 320E   |
| 20        | 280E   | 348     | 342    | 317    | 270    | 290    | 1,850  | 1,160  | 1,720  | 433     | 340E   | 330E   |
| 21        | 270E   | 347     | 327    | 317    | 269    | 369    | 1,770  | 1,030  | 1,460  | 420     | 340E   | 320E   |
| 22        | 260E   | 346     | 341    | 333    | 273    | 377    | 1,580  | 899    | 1,380  | 410     | 350E   | 320E   |
| 23        | 260E   | 341     | 352    | 327    | 322    | 374    | 1,490  | 736    | 1,470  | 397     | 350E   | 320E   |
| 24        | 260E   | 329     | 350E   | 305    | 371    | 359    | 1,420  | 615    | 1,280  | 393     | 360E   | 330E   |
| 25        | 260E   | 342     | 350E   | 300    | 411    | 349    | 1,350  | 540    | 1,310  | 398     | 350E   | 320E   |
| 26        | 260E   | 347     | 350E   | 303    | 537    | 346    | 1,320  | 484    | 967    | 410     | 330E   | 320E   |
| 27        | 260E   | 343     | 360E   | 303    | 877    | 443    | 1,260  | 447    | 691    | 413     | 340E   | 330E   |
| 28        | 250E   | 330E    | 360E   | 318    | 849    | 497    | 1,200  | 428    | 591    | 399     | 350E   | 330E   |
| 29        | 245E   | 320E    | 371    | 341    | 632    | 550    | 1,130  | 411    | 552    | 391     | 370E   | 320E   |
| 30        | 245E   | -----   | 363    | 339    | 531    | 612    | 1,030  | 422    | 525    | 398     | 392    | 320E   |
| 31        | 245E   | -----   | 351    | -----  | 632    | -----  | 1,130  | 444    | -----  | 400     | -----  | 310E   |
| TOTAL     | 9,010  | 9,383   | 10,646 | 9,629  | 12,297 | 11,888 | 46,142 | 26,542 | 21,746 | 13,370  | 10,853 | 10,580 |
| MEAN      | 291    | 324     | 343    | 321    | 397    | 396    | 1,488  | 856    | 725    | 431     | 362    | 341    |
| MAX       | 365    | 365     | 371    | 351    | 877    | 640    | 2,090  | 1,420  | 1,720  | 498     | 401    | 373    |
| MIN       | 245    | 240     | 320    | 296    | 266    | 290    | 716    | 411    | 344    | 391     | 330    | 310    |
| AC-FT     | 17,870 | 18,610  | 21,120 | 19,100 | 24,390 | 23,580 | 91,520 | 52,650 | 43,130 | 26,520  | 21,530 | 20,990 |
| YEAR 1996 | TOTAL  | 192,086 | MEAN   | 525    | MAX    | 2,090  | MIN    | 240    | AC-FT  | 381,000 |        |        |



## SOUTH PLATTE RIVER BASIN

## LODGEPOLE CREEK at Tomich Ranch, 06762500 - 1996

LOCATION.--Sec. 32-15-57 W., Kimball County

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--Oct. 1931 - 1992 (records for Mar. - Sep. 1931 at a site 1.5 miles upstream are not equivalent because of irrigation diversions). Monthly discharges only for some periods.  
 1993 - present, May - September partial year only record. 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.  
 E indicates estimated daily discharge.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG  | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|------|-------|-----|-------|-----|
| 1         |     |       |     |       | 4.4E  | 4.0   | 1.6   | 3.2  | 1.9   |     |       |     |
| 2         |     |       |     |       | 4.3E  | 3.8   | 1.5   | 2.4  | 1.9   |     |       |     |
| 3         |     |       |     |       | 4.2E  | 3.7   | 1.5   | 2.1  | 1.9   |     |       |     |
| 4         |     |       |     |       | 4.1E  | 3.7   | 1.4   | 2.0  | 1.9   |     |       |     |
| 5         |     |       |     |       | 4.0E  | 3.5   | 1.3   | 1.8  | 2.0   |     |       |     |
| 6         |     |       |     |       | 3.9E  | 3.3   | 1.2   | 1.7  | 2.6   |     |       |     |
| 7         |     |       |     |       | 3.7   | 3.1   | 1.2   | 1.5  | 2.5   |     |       |     |
| 8         |     |       |     |       | 3.3   | 3.0   | 1.1   | 1.4  | 2.3   |     |       |     |
| 9         |     |       |     |       | 3.4   | 3.1   | 1.0   | 1.4  | 2.3   |     |       |     |
| 10        |     |       |     |       | 3.9   | 2.8   | .98   | 1.4  | 2.3   |     |       |     |
| 11        |     |       |     |       | 3.9   | 2.6   | 1.1   | 1.5  | 2.1   |     |       |     |
| 12        |     |       |     |       | 3.6   | 2.6   | .90   | 1.3  | 2.2   |     |       |     |
| 13        |     |       |     |       | 3.5   | 2.9   | .79   | 1.2  | 2.4   |     |       |     |
| 14        |     |       |     |       | 3.3   | 2.9   | .91   | 1.1  | 2.7   |     |       |     |
| 15        |     |       |     |       | 3.0   | 2.9   | .89   | 1.3  | 2.8   |     |       |     |
| 16        |     |       |     |       | 3.0   | 3.2   | .92   | 1.4  | 2.7   |     |       |     |
| 17        |     |       |     |       | 2.6   | 3.1   | 1.0   | 1.5  | 2.7   |     |       |     |
| 18        |     |       |     |       | 2.4   | 3.4   | 1.3   | 1.6  | 3.2   |     |       |     |
| 19        |     |       |     |       | 2.4   | 3.2   | 1.3   | 1.5  | 3.8   |     |       |     |
| 20        |     |       |     |       | 2.6   | 2.9   | 1.3   | 1.3  | 3.1   |     |       |     |
| 21        |     |       |     |       | 2.5   | 2.8   | 1.3   | 1.3  | 2.8   |     |       |     |
| 22        |     |       |     |       | 2.5   | 2.8   | 1.3   | 1.3  | 2.8   |     |       |     |
| 23        |     |       |     |       | 2.7   | 2.9   | 1.3   | 1.2  | 2.7   |     |       |     |
| 24        |     |       |     |       | 3.5   | 2.8   | 1.2   | 1.3  | 2.6   |     |       |     |
| 25        |     |       |     |       | 3.9   | 2.7   | 1.2   | 1.3  | 2.9   |     |       |     |
| 26        |     |       |     |       | 7.4   | 2.5   | 1.2   | 1.3  | 2.9   |     |       |     |
| 27        |     |       |     |       | 6.8   | 2.2   | 1.2   | 1.3  | 2.7   |     |       |     |
| 28        |     |       |     |       | 4.7   | 2.1   | 1.1   | 1.4  | 2.7   |     |       |     |
| 29        |     |       |     |       | 4.4   | 1.9   | 1.1   | 1.9  | 2.7   |     |       |     |
| 30        |     | ----- |     |       | 4.2   | 1.7   | 3.5   | 2.0  | 2.7   |     |       |     |
| 31        |     | ----- |     | ----- | 4.2   | ----- | 12    | 2.0  | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 116.3 | 88.1  | 49.59 | 48.9 | 76.8  |     |       |     |
| MEAN      |     |       |     |       | 3.75  | 2.94  | 1.60  | 1.58 | 2.56  |     |       |     |
| MAX       |     |       |     |       | 7.4   | 4.0   | 12    | 3.2  | 3.8   |     |       |     |
| MIN       |     |       |     |       | 2.4   | 1.7   | .79   | 1.1  | 1.9   |     |       |     |
| AC-FT     |     |       |     |       | 231   | 175   | 98    | 97   | 152   |     |       |     |
| YEAR 1996 | MAX | 12    | MIN | .79   | AC-FT | 753   |       |      |       |     |       |     |

# SOUTH PLATTE RIVER BASIN

**OLIVER RESERVOIR on Lodgepole Creek, 00407000 - 1996**

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

GAGE.--Staff gage

PERIOD OF RECORD.--1977 - present

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

DAILY CONTENTS IN ACRE-FEET FOR 1996

| Day | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   |
|-----|-----|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1   |     |       |     |       |       |       |       |       |       | 1,730 |       |       |
| 2   |     |       |     |       |       |       |       |       |       |       |       |       |
| 3   |     |       |     |       |       |       |       |       |       |       |       |       |
| 4   |     |       |     |       |       |       |       |       |       |       |       |       |
| 5   |     |       |     | 2,240 |       |       |       |       |       |       |       |       |
| 6   |     |       |     |       | 2,260 |       |       |       |       |       |       |       |
| 7   |     |       |     |       |       |       |       |       |       |       |       |       |
| 8   |     |       |     |       |       |       |       |       |       |       |       |       |
| 9   |     |       |     |       |       |       |       |       |       |       |       |       |
| 10  |     |       |     |       |       |       |       |       |       |       |       |       |
| 11  |     |       |     |       |       |       |       |       |       |       |       |       |
| 12  |     |       |     |       |       |       |       | 1,880 |       |       |       |       |
| 13  |     |       |     |       |       |       |       |       |       |       |       |       |
| 14  |     |       |     |       |       |       |       |       |       |       |       |       |
| 15  |     |       |     |       |       |       | 2,070 |       |       |       |       |       |
| 16  |     |       |     |       |       |       |       |       |       |       |       |       |
| 17  |     |       |     |       |       |       |       |       |       |       |       |       |
| 18  |     |       |     | 1,290 |       |       |       |       |       |       |       |       |
| 19  |     |       |     |       |       | 2,260 |       |       |       |       |       | 1,970 |
| 20  |     |       |     |       | 2,240 |       |       |       |       |       |       |       |
| 21  |     |       |     |       |       |       |       |       |       |       |       |       |
| 22  |     |       |     |       |       |       |       |       |       |       |       |       |
| 23  |     |       |     |       |       |       |       |       |       |       |       |       |
| 24  |     |       |     |       |       |       |       |       |       |       |       |       |
| 25  |     |       |     |       |       |       |       |       |       |       |       |       |
| 26  |     |       |     |       |       |       |       |       |       |       |       |       |
| 27  |     |       |     |       |       |       |       |       |       |       |       |       |
| 28  |     |       |     |       |       |       |       |       |       |       |       |       |
| 29  |     |       |     |       |       |       |       |       |       |       |       |       |
| 30  |     | ----- |     |       |       |       |       |       |       |       |       |       |
| 31  |     | ----- |     | ----- |       | ----- |       |       | ----- |       | ----- |       |

## SOUTH PLATTE RIVER BASIN

LODGEPOLE CREEK below Oliver Reservoir, 00219000 - 1996

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

GAGE.--Continuous stage recorder

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL  | AUG  | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|------|------|-------|-----|-------|-----|
| 1         |     |       |     |       | .49   | .48   | .32  | .18  | .19   |     |       |     |
| 2         |     |       |     |       | .54   | .42   | .36  | .18  | .22   |     |       |     |
| 3         |     |       |     |       | .54   | .42   | .36  | .15  | .18   |     |       |     |
| 4         |     |       |     |       | .53   | .36   | .45  | .12  | .18   |     |       |     |
| 5         |     |       |     |       | .48   | .36   | .48  | .15  | .19   |     |       |     |
| 6         |     |       |     |       | .48   | .30   | .45  | .09  | .36   |     |       |     |
| 7         |     |       |     |       | .48   | .30   | .48  | .06  | .30   |     |       |     |
| 8         |     |       |     |       | .48   | .30   | .48  | .06  | .30   |     |       |     |
| 9         |     |       |     |       | .52   | .30   | .48  | .08  | .30   |     |       |     |
| 10        |     |       |     |       | .51   | .30   | .46  | .22  | .30   |     |       |     |
| 11        |     |       |     |       | .48   | .30   | .46  | .18  | .34   |     |       |     |
| 12        |     |       |     |       | .48   | .30   | .46  | .16  | .33   |     |       |     |
| 13        |     |       |     |       | .48   | .30   | .51  | .18  | .30   |     |       |     |
| 14        |     |       |     |       | .48   | .30   | .42  | .16  | .33   |     |       |     |
| 15        |     |       |     |       | .48   | .36   | .28  | .22  | .46   |     |       |     |
| 16        |     |       |     |       | .48   | .36   | .27  | .24  | .42   |     |       |     |
| 17        |     |       |     |       | .48   | .30   | .27  | .15  | .48   |     |       |     |
| 18        |     |       |     |       | .51   | .33   | .18  | .12  | .57   |     |       |     |
| 19        |     |       |     |       | .55   | .30   | .18  | .12  | .72   |     |       |     |
| 20        |     |       |     |       | .42   | .30   | .18  | .12  | .48   |     |       |     |
| 21        |     |       |     |       | .30   | .33   | .18  | .11  | .48   |     |       |     |
| 22        |     |       |     |       | .32   | .47   | .18  | .06  | .48   |     |       |     |
| 23        |     |       |     |       | .51   | .36   | .18  | .06  | .48   |     |       |     |
| 24        |     |       |     |       | .57   | .33   | .20  | .06  | .48   |     |       |     |
| 25        |     |       |     |       | .47   | .35   | .24  | .06  | .48   |     |       |     |
| 26        |     |       |     |       | .95   | .34   | .06  | .06  | .48   |     |       |     |
| 27        |     |       |     |       | .54   | .30   | .06  | .06  | .48   |     |       |     |
| 28        |     |       |     |       | .48   | .30   | .06  | .11  | .48   |     |       |     |
| 29        |     |       |     |       | .48   | .34   | .06  | .22  | .48   |     |       |     |
| 30        |     | ----- |     |       | .48   | .30   | .11  | .24  | .48   |     |       |     |
| 31        |     | ----- |     | ----- | .48   | ----- | .21  | .18  | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 15.47 | 10.11 | 9.13 | 4.20 | 11.75 |     |       |     |
| MEAN      |     |       |     |       | .50   | .34   | .29  | .14  | .39   |     |       |     |
| MAX       |     |       |     |       | .95   | .48   | .51  | .24  | .72   |     |       |     |
| MIN       |     |       |     |       | .30   | .30   | .06  | .06  | .18   |     |       |     |
| AC-FT     |     |       |     |       | 31    | 20    | 18   | 8.3  | 23    |     |       |     |
| YEAR 1996 | MAX | .95   | MIN | .06   | AC-FT | 100   |      |      |       |     |       |     |

# SOUTH PLATTE RIVER BASIN

WESTERN CANAL from South Platte River, 00147000 - 1996

LOCATION.--NE1/4SE1/4 Sec. 14-12-43 W. near Julesburg, CO

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1918 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-----|-----|
| 1         |     |       |     | 0     | 93    | 0      | 109   | 65    | 50    |     |     |     |
| 2         |     |       |     | 0     | 91    | 0      | 137   | 63    | 48    |     |     |     |
| 3         |     |       |     | 0     | 85    | 40     | 121   | 64    | 70    |     |     |     |
| 4         |     |       |     | 0     | 64    | 44     | 110   | 78    | 78    |     |     |     |
| 5         |     |       |     | 0     | 52    | 70     | 91    | 111   | 39    |     |     |     |
| 6         |     |       |     | 0     | 51    | 58     | 73    | 118   | 20    |     |     |     |
| 7         |     |       |     | 0     | 79    | 62     | 66    | 98    | 11    |     |     |     |
| 8         |     |       |     | 0     | 108   | 77     | 66    | 81    | 0     |     |     |     |
| 9         |     |       |     | 0     | 130   | 65     | 71    | 77    | 0     |     |     |     |
| 10        |     |       |     | 0     | 98    | 69     | 71    | 91    | 51    |     |     |     |
| 11        |     |       |     | 0     | 91    | 71     | 71    | 73    | 86    |     |     |     |
| 12        |     |       |     | 0     | 98    | 36     | 66    | 64    | 88    |     |     |     |
| 13        |     |       |     | 0     | 154   | 17     | 64    | 64    | 89    |     |     |     |
| 14        |     |       |     | 0     | 129   | 59     | 70    | 64    | 78    |     |     |     |
| 15        |     |       |     | 14    | 88    | 52     | 74    | 64    | 75    |     |     |     |
| 16        |     |       |     | 70    | 104   | 57     | 74    | 93    | 84    |     |     |     |
| 17        |     |       |     | 67    | 111   | 71     | 74    | 67    | 87    |     |     |     |
| 18        |     |       |     | 56    | 123   | 73     | 73    | 72    | 25    |     |     |     |
| 19        |     |       |     | 53    | 129   | 70     | 143   | 89    | 0     |     |     |     |
| 20        |     |       |     | 47    | 131   | 66     | 135   | 88    | 0     |     |     |     |
| 21        |     |       |     | 80    | 122   | 57     | 117   | 83    | 0     |     |     |     |
| 22        |     |       |     | 79    | 116   | 56     | 107   | 104   | 0     |     |     |     |
| 23        |     |       |     | 79    | 132   | 56     | 80    | 112   | 0     |     |     |     |
| 24        |     |       |     | 81    | 123   | 66     | 75    | 122   | 0     |     |     |     |
| 25        |     |       |     | 59    | 0     | 66     | 74    | 123   | 0     |     |     |     |
| 26        |     |       |     | 59    | 0     | 84     | 111   | 120   | 0     |     |     |     |
| 27        |     |       |     | 53    | 31    | 73     | 81    | 119   | 0     |     |     |     |
| 28        |     |       |     | 70    | 59    | 71     | 72    | 105   | 0     |     |     |     |
| 29        |     |       |     | 82    | 107   | 91     | 68    | 116   | 0     |     |     |     |
| 30        |     | ----- |     | 83    | 55    | 94     | 73    | 76    | 0     |     |     |     |
| 31        |     | ----- |     | ----- | 0     | -----  | 70    | 76    | ----- |     |     |     |
| TOTAL     |     |       |     | 1,032 | 2,754 | 1,771  | 2,687 | 2,740 | 979   |     |     |     |
| MEAN      |     |       |     | 34.4  | 88.8  | 59.0   | 86.7  | 88.4  | 32.6  |     |     |     |
| MAX       |     |       |     | 83    | 154   | 94     | 143   | 123   | 89    |     |     |     |
| MIN       |     |       |     | 0     | 0     | 0      | 64    | 63    | 0     |     |     |     |
| AC-FT     |     |       |     | 2,050 | 5,460 | 3,510  | 5,330 | 5,430 | 1,940 |     |     |     |
| YEAR 1996 | MAX | 154   | MIN | 0     | AC-FT | 23,730 |       |       |       |     |     |     |

## SOUTH PLATTE RIVER BASIN

## SOUTH PLATTE RIVER at North Platte, 06765500 - 1996

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 2,798.37 feet above mean sea level of datum established by City of North Platte Engineer in 1928.

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994  
E indicates estimated daily discharge. Estimated records January 17-19, 26-February 10, March 24-27, December 17-31.  
Record good, except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 2,580 cubic feet per second September 21, gage height 8.04 feet; minimum daily discharge 160 cubic feet per second April 6.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT     | NOV    | DEC    |
|-----------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1         | 183    | 300E    | 328    | 184    | 193    | 447    | 301    | 323    | 315    | 1,220   | 274    | 271    |
| 2         | 213    | 300E    | 432    | 174    | 186    | 437    | 283    | 324    | 490    | 1,230   | 242    | 247    |
| 3         | 216    | 320E    | 666    | 169    | 186    | 356    | 265    | 322    | 593    | 1,230   | 235    | 230    |
| 4         | 201    | 400E    | 834    | 165    | 188    | 328    | 277    | 309    | 523    | 1,220   | 237    | 227    |
| 5         | 201    | 500E    | 697    | 163    | 188    | 335    | 256    | 324    | 515    | 1,180   | 242    | 236    |
| 6         | 199    | 550E    | 438    | 160    | 186    | 357    | 225    | 314    | 593    | 1,110   | 236    | 209    |
| 7         | 208    | 600E    | 412    | 173    | 187    | 370    | 218    | 303    | 658    | 1,050   | 235    | 240    |
| 8         | 228    | 650E    | 691    | 204    | 202    | 292    | 229    | 284    | 590    | 1,100   | 237    | 241    |
| 9         | 196    | 700E    | 989    | 211    | 207    | 278    | 211    | 257    | 506    | 962     | 230    | 233    |
| 10        | 198    | 750E    | 839    | 184    | 210    | 259    | 239    | 224    | 466    | 765     | 231    | 256    |
| 11        | 199    | 891     | 558    | 174    | 214    | 247    | 238    | 227    | 423    | 847     | 217    | 260    |
| 12        | 241    | 1,090   | 426    | 170    | 202    | 261    | 245    | 231    | 387    | 871     | 202    | 256    |
| 13        | 297    | 1,140   | 351    | 169    | 186    | 299    | 244    | 229    | 393    | 856     | 212    | 247    |
| 14        | 302    | 1,300   | 317    | 179    | 187    | 316    | 240    | 247    | 456    | 842     | 215    | 232    |
| 15        | 311    | 1,160   | 273    | 173    | 198    | 307    | 245    | 255    | 519    | 802     | 222    | 247    |
| 16        | 300    | 948     | 255    | 168    | 188    | 346    | 255    | 284    | 562    | 743     | 233    | 259    |
| 17        | 280E   | 860     | 268    | 169    | 197    | 313    | 239    | 274    | 588    | 730     | 246    | 250E   |
| 18        | 320E   | 825     | 280    | 169    | 192    | 286    | 235    | 275    | 680    | 700     | 209    | 250E   |
| 19        | 350E   | 878     | 257    | 169    | 190    | 288    | 269    | 330    | 967    | 616     | 230    | 250E   |
| 20        | 427    | 721     | 233    | 171    | 191    | 306    | 302    | 306    | 1,590  | 536     | 249    | 240E   |
| 21        | 464    | 540     | 232    | 174    | 190    | 413    | 283    | 313    | 2,480  | 435     | 230    | 250E   |
| 22        | 453    | 367     | 226    | 169    | 199    | 596    | 283    | 311    | 2,120  | 385     | 264    | 260E   |
| 23        | 418    | 297     | 211    | 168    | 207    | 600    | 266    | 283    | 1,590  | 336     | 280    | 250E   |
| 24        | 439    | 267     | 200E   | 172    | 225    | 484    | 285    | 295    | 1,670  | 289     | 269    | 250E   |
| 25        | 447    | 271     | 200E   | 168    | 244    | 379    | 266    | 304    | 1,820  | 300     | 245    | 240E   |
| 26        | 440E   | 264     | 200E   | 170    | 319    | 357    | 273    | 296    | 1,760  | 301     | 256    | 240E   |
| 27        | 420E   | 282     | 200E   | 180    | 418    | 372    | 267    | 280    | 1,870  | 290     | 264    | 250E   |
| 28        | 400E   | 304     | 200    | 183    | 366    | 462    | 285    | 272    | 1,780  | 301     | 276    | 260E   |
| 29        | 400E   | 335     | 219    | 193    | 314    | 471    | 286    | 276    | 1,550  | 301     | 264    | 270E   |
| 30        | 380E   | -----   | 210    | 190    | 277    | 376    | 298    | 283    | 1,340  | 295     | 290    | 270E   |
| 31        | 350E   | -----   | 191    | -----  | 334    | -----  | 339    | 286    | -----  | 286     | -----  | 280E   |
| TOTAL     | 9,681  | 17,810  | 11,833 | 5,265  | 6,971  | 10,938 | 8,147  | 8,841  | 29,794 | 22,129  | 7,272  | 7,701  |
| MEAN      | 312    | 614     | 382    | 176    | 225    | 365    | 263    | 285    | 993    | 714     | 242    | 248    |
| MAX       | 464    | 1,300   | 989    | 211    | 418    | 600    | 339    | 330    | 2,480  | 1,230   | 290    | 280    |
| MIN       | 183    | 264     | 191    | 160    | 186    | 247    | 211    | 224    | 315    | 286     | 202    | 209    |
| AC-FT     | 19,200 | 35,330  | 23,470 | 10,440 | 13,830 | 21,700 | 16,160 | 17,540 | 59,100 | 43,890  | 14,420 | 15,270 |
| YEAR 1996 | TOTAL  | 146,382 | MEAN   | 400    | MAX    | 2,480  | MIN    | 160    | AC-FT  | 290,300 |        |        |

PLATTE RIVER BASIN

TRI-COUNTY CANAL from Platte River, 00142000 - 1996

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

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

PERIOD OF RECORD.--1941 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB    | MAR     | APR     | MAY    | JUN       | JUL     | AUG     | SEP     | OCT     | NOV     | DEC     |
|-----------|--------|--------|---------|---------|--------|-----------|---------|---------|---------|---------|---------|---------|
| 1         | 1,810  | 1,170  | 196     | 2,080   | 1,310  | 2,150     | 2,170   | 2,180   | 2,190   | 2,180   | 2,170   | 2,160   |
| 2         | 1,690  | 1,210  | 2,150   | 2,130   | 1,310  | 2,130     | 2,180   | 2,190   | 2,200   | 2,160   | 2,160   | 2,130   |
| 3         | 1,740  | 1,130  | 2,140   | 2,140   | 1,280  | 2,110     | 2,180   | 2,180   | 2,190   | 2,160   | 2,160   | 2,110   |
| 4         | 1,780  | 1,470  | 2,120   | 2,140   | 1,300  | 2,100     | 2,190   | 2,180   | 2,190   | 2,160   | 2,130   | 2,090   |
| 5         | 1,450  | 1,240  | 2,140   | 2,130   | 1,310  | 2,140     | 2,170   | 2,190   | 2,200   | 2,180   | 2,120   | 2,070   |
| 6         | 1,250  | 1,420  | 2,150   | 2,110   | 1,310  | 2,150     | 2,180   | 2,200   | 2,220   | 2,160   | 2,120   | 2,080   |
| 7         | 1,340  | 1,450  | 1,680   | 2,120   | 1,320  | 2,130     | 2,160   | 2,190   | 2,200   | 2,170   | 2,040   | 2,070   |
| 8         | 1,410  | 1,500  | 1,140   | 2,160   | 1,440  | 2,140     | 2,150   | 2,190   | 2,190   | 2,160   | 2,000   | 2,070   |
| 9         | 1,740  | 1,820  | 1,200   | 2,180   | 1,440  | 2,110     | 2,150   | 2,190   | 2,190   | 2,160   | 2,000   | 2,080   |
| 10        | 1,870  | 2,020  | 1,790   | 2,150   | 1,570  | 2,140     | 2,160   | 2,190   | 2,190   | 2,150   | 2,000   | 2,110   |
| 11        | 1,800  | 2,080  | 2,120   | 2,110   | 1,630  | 2,140     | 1,780   | 2,190   | 2,190   | 2,180   | 2,000   | 2,110   |
| 12        | 1,810  | 2,130  | 2,140   | 2,100   | 1,600  | 2,140     | 2,180   | 2,180   | 2,190   | 2,170   | 2,020   | 2,110   |
| 13        | 1,880  | 2,150  | 1,280   | 2,140   | 1,610  | 2,170     | 2,170   | 2,180   | 2,180   | 2,050   | 2,020   | 2,080   |
| 14        | 1,710  | 2,160  | 2,120   | 2,160   | 1,580  | 2,150     | 2,170   | 2,200   | 2,190   | 1,960   | 2,010   | 2,070   |
| 15        | 1,640  | 2,150  | 2,160   | 2,160   | 1,600  | 2,160     | 2,130   | 2,180   | 2,190   | 1,410   | 2,000   | 2,060   |
| 16        | 1,640  | 2,150  | 2,170   | 2,160   | 1,490  | 2,140     | 2,150   | 2,190   | 2,190   | 1,360   | 2,110   | 2,120   |
| 17        | 1,510  | 2,150  | 2,150   | 2,160   | 1,360  | 2,150     | 2,160   | 2,170   | 2,170   | 1,410   | 2,080   | 1,140   |
| 18        | 900    | 2,150  | 2,150   | 2,190   | 1,310  | 2,150     | 2,170   | 2,150   | 2,190   | 1,390   | 2,070   | 849     |
| 19        | 1,490  | 2,150  | 2,120   | 2,180   | 1,290  | 2,130     | 2,200   | 2,170   | 2,170   | 1,270   | 2,120   | 818     |
| 20        | 1,170  | 2,180  | 2,070   | 2,180   | 1,300  | 2,090     | 2,180   | 2,180   | 2,180   | 1,450   | 2,120   | 1,140   |
| 21        | 1,230  | 2,170  | 2,060   | 2,170   | 1,290  | 2,150     | 2,170   | 2,170   | 2,160   | 1,440   | 2,100   | 1,170   |
| 22        | 1,250  | 2,110  | 2,070   | 2,150   | 1,480  | 2,160     | 2,180   | 2,170   | 2,180   | 1,470   | 2,110   | 1,210   |
| 23        | 1,350  | 2,000  | 2,070   | 2,090   | 1,630  | 2,170     | 2,190   | 2,180   | 2,170   | 1,530   | 2,130   | 1,170   |
| 24        | 1,310  | 1,490  | 2,020   | 1,980   | 1,830  | 2,160     | 2,180   | 2,160   | 2,180   | 1,610   | 2,020   | 1,160   |
| 25        | 1,460  | 1,100  | 1,820   | 1,800   | 1,950  | 2,140     | 2,180   | 2,160   | 2,170   | 1,770   | 2,010   | 1,170   |
| 26        | 1,200  | 784    | 1,870   | 1,650   | 2,180  | 2,150     | 2,200   | 2,170   | 2,160   | 1,970   | 2,020   | 1,140   |
| 27        | 1,400  | 1,110  | 2,080   | 1,540   | 2,160  | 2,150     | 2,190   | 2,130   | 2,180   | 2,090   | 2,090   | 1,220   |
| 28        | 1,500  | 1,750  | 2,020   | 1,460   | 2,140  | 2,150     | 2,190   | 2,190   | 2,190   | 2,140   | 2,130   | 1,250   |
| 29        | 1,180  | 1,700  | 1,960   | 1,490   | 2,160  | 2,140     | 2,170   | 2,200   | 2,210   | 2,130   | 2,160   | 1,270   |
| 30        | 1,340  | -----  | 1,990   | 1,350   | 2,140  | 2,160     | 2,180   | 2,200   | 2,180   | 2,140   | 2,160   | 1,230   |
| 31        | 1,120  | -----  | 2,020   | -----   | 2,150  | -----     | 2,180   | 2,200   | -----   | 2,140   | -----   | 1,280   |
| TOTAL     | 45,970 | 50,094 | 59,166  | 60,560  | 49,470 | 64,250    | 66,990  | 67,600  | 65,580  | 58,720  | 62,380  | 50,737  |
| MEAN      | 1,483  | 1,727  | 1,909   | 2,019   | 1,596  | 2,142     | 2,161   | 2,181   | 2,186   | 1,894   | 2,079   | 1,637   |
| MAX       | 1,880  | 2,180  | 2,170   | 2,190   | 2,180  | 2,170     | 2,200   | 2,200   | 2,220   | 2,180   | 2,170   | 2,160   |
| MIN       | 900    | 784    | 196     | 1,350   | 1,280  | 2,090     | 1,780   | 2,130   | 2,160   | 1,270   | 2,000   | 818     |
| AC-FT     | 91,180 | 99,360 | 117,400 | 120,100 | 98,120 | 127,400   | 132,900 | 134,100 | 130,100 | 116,500 | 123,700 | 100,600 |
| YEAR 1996 | MAX    | 2,220  | MIN     | 196     | AC-FT  | 1,391,000 |         |         |         |         |         |         |

# PLATTE RIVER BASIN

**JEFFREY RESERVOIR from Platte River, 00403700 - 1996**

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<br>(feet) | CONTENT<br>(acre-feet) |
|--------------------------------|---------------------|------------------------|
| Normal maximum operating level | 2759.0              | 6,349                  |
| Normal minimum operating level | 2745.0              | 5,113                  |

DAILY CONTENTS IN ACRE-FEET FOR 1996

| Day       | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1         | 5,400 | 5,130 | 4,910 | 5,400 | 5,510 | 5,620 | 5,730 | 5,680 | 5,680 | 5,730 | 5,350 | 5,680 |
| 2         | 5,070 | 5,240 | 5,350 | 5,180 | 5,460 | 5,510 | 5,680 | 5,730 | 5,730 | 5,730 | 5,290 | 5,570 |
| 3         | 4,660 | 5,130 | 5,350 | 4,810 | 5,510 | 5,460 | 5,680 | 5,790 | 5,790 | 5,620 | 5,240 | 5,570 |
| 4         | 4,660 | 5,020 | 5,400 | 4,460 | 5,510 | 5,620 | 5,790 | 5,790 | 5,790 | 5,620 | 5,790 | 5,620 |
| 5         | 5,130 | 5,960 | 5,350 | 4,110 | 5,400 | 5,570 | 5,680 | 5,790 | 5,730 | 5,730 | 5,790 | 5,730 |
| 6         | 5,240 | 4,760 | 5,350 | 3,720 | 5,510 | 5,620 | 5,730 | 5,790 | 5,900 | 5,840 | 5,840 | 5,840 |
| 7         | 4,810 | 4,660 | 5,400 | 3,680 | 5,510 | 5,510 | 5,840 | 5,790 | 5,950 | 5,840 | 5,840 | 5,840 |
| 8         | 4,560 | 4,560 | 5,400 | 4,660 | 5,510 | 5,570 | 5,680 | 5,680 | 6,060 | 5,620 | 5,840 | 5,840 |
| 9         | 4,560 | 4,610 | 5,070 | 5,290 | 5,620 | 5,570 | 5,620 | 5,570 | 5,950 | 5,400 | 5,840 | 5,900 |
| 10        | 5,020 | 5,020 | 5,400 | 5,240 | 5,570 | 5,460 | 5,570 | 5,570 | 5,840 | 5,180 | 5,730 | 5,950 |
| 11        | 5,460 | 5,730 | 5,290 | 5,240 | 5,680 | 5,460 | 5,790 | 5,570 | 5,680 | 5,020 | 5,790 | 5,950 |
| 12        | 5,400 | 6,010 | 5,400 | 5,290 | 5,350 | 5,570 | 5,790 | 5,620 | 5,680 | 4,860 | 5,840 | 5,840 |
| 13        | 4,960 | 6,010 | 5,460 | 5,460 | 5,460 | 5,680 | 5,680 | 5,790 | 5,680 | 4,760 | 5,790 | 5,790 |
| 14        | 4,010 | 6,010 | 5,400 | 5,730 | 5,460 | 5,730 | 5,680 | 5,790 | 5,730 | 4,410 | 5,730 | 5,790 |
| 15        | 4,410 | 5,950 | 5,350 | 5,840 | 5,510 | 5,730 | 5,680 | 5,730 | 5,790 | 3,390 | 5,730 | 5,840 |
| 16        | 5,070 | 5,840 | 5,350 | 5,680 | 5,510 | 5,730 | 5,680 | 5,790 | 5,790 | 4,060 | 5,790 | 5,950 |
| 17        | 5,680 | 5,680 | 5,400 | 5,680 | 5,400 | 5,730 | 5,620 | 5,730 | 5,840 | 4,460 | 5,840 | 6,060 |
| 18        | 4,910 | 5,510 | 5,460 | 5,620 | 5,290 | 5,680 | 5,620 | 5,680 | 5,840 | 4,910 | 6,060 | 5,460 |
| 19        | 4,660 | 5,460 | 5,460 | 5,510 | 5,290 | 5,620 | 5,620 | 5,730 | 5,900 | 5,070 | 6,010 | 5,290 |
| 20        | 4,510 | 5,290 | 5,460 | 5,400 | 5,400 | 5,510 | 5,680 | 5,790 | 5,730 | 3,300 | 5,900 | 5,130 |
| 21        | 4,260 | 5,290 | 5,460 | 5,350 | 5,460 | 5,510 | 5,680 | 5,840 | 5,570 | 3,820 | 5,840 | 5,020 |
| 22        | 4,310 | 5,290 | 5,400 | 5,400 | 5,460 | 5,510 | 5,680 | 5,790 | 5,460 | 4,610 | 5,790 | 4,960 |
| 23        | 4,410 | 5,240 | 5,510 | 5,240 | 5,510 | 5,460 | 5,680 | 5,730 | 5,570 | 5,290 | 5,790 | 4,960 |
| 24        | 4,460 | 5,350 | 5,570 | 5,460 | 5,730 | 5,510 | 5,620 | 5,680 | 5,680 | 6,060 | 5,730 | 4,960 |
| 25        | 4,510 | 5,350 | 5,130 | 5,680 | 5,730 | 5,510 | 5,680 | 5,680 | 5,730 | 5,460 | 5,460 | 4,960 |
| 26        | 4,510 | 5,400 | 5,350 | 5,680 | 5,680 | 5,510 | 5,680 | 5,620 | 5,730 | 5,900 | 5,570 | 5,020 |
| 27        | 4,310 | 5,510 | 5,510 | 5,730 | 5,620 | 5,570 | 5,680 | 5,570 | 5,680 | 5,950 | 5,730 | 5,070 |
| 28        | 4,310 | 5,570 | 5,620 | 5,840 | 5,460 | 5,620 | 5,730 | 5,840 | 5,680 | 5,790 | 5,950 | 5,180 |
| 29        | 4,410 | 5,130 | 5,620 | 5,790 | 5,510 | 5,730 | 5,730 | 5,900 | 5,680 | 5,680 | 5,950 | 5,240 |
| 30        | 4,610 | ----- | 5,570 | 5,790 | 5,790 | 5,790 | 5,790 | 5,840 | 5,730 | 5,620 | 5,840 | 5,240 |
| 31        | 4,910 | ----- | 5,460 | ----- | 5,790 | ----- | 5,680 | 5,730 | ----- | 5,400 | ----- | 4,960 |
| MAX       | 5,680 | 6,010 | 5,620 | 5,840 | 5,790 | 5,790 | 5,840 | 5,900 | 6,060 | 6,060 | 6,060 | 6,060 |
| MIN       | 4,010 | 4,560 | 4,910 | 3,680 | 5,290 | 5,460 | 5,570 | 5,570 | 5,460 | 3,300 | 5,240 | 4,960 |
| YEAR 1996 | MAX   | 6,060 | MIN   | 3,300 |       |       |       |       |       |       |       |       |

# PLATTE RIVER BASIN

**JEFFREY POWER RETURN to Platte River, 00143000 - 1996**

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

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

PERIOD OF RECORD.--1941 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-------|-----|
| 1         | 0   | 0     | 0   | 0     | 0     | 0      | 128   | 0     | 72    | 0   | 0     | 0   |
| 2         | 0   | 0     | 0   | 0     | 0     | 0      | 382   | 0     | 140   | 0   | 0     | 0   |
| 3         | 0   | 0     | 0   | 0     | 0     | 0      | 434   | 0     | 0     | 0   | 0     | 0   |
| 4         | 0   | 0     | 0   | 0     | 0     | 0      | 435   | 80    | 0     | 0   | 0     | 0   |
| 5         | 0   | 0     | 0   | 0     | 0     | 0      | 329   | 52    | 0     | 0   | 0     | 0   |
| 6         | 0   | 0     | 0   | 0     | 0     | 0      | 252   | 0     | 0     | 0   | 0     | 0   |
| 7         | 0   | 0     | 0   | 0     | 0     | 0      | 134   | 0     | 0     | 0   | 0     | 0   |
| 8         | 0   | 0     | 0   | 0     | 0     | 0      | 0     | 44    | 0     | 0   | 0     | 0   |
| 9         | 0   | 0     | 0   | 0     | 0     | 0      | 0     | 253   | 0     | 0   | 0     | 0   |
| 10        | 0   | 0     | 0   | 0     | 0     | 0      | 0     | 336   | 0     | 0   | 0     | 0   |
| 11        | 0   | 0     | 0   | 0     | 0     | 47     | 58    | 248   | 0     | 0   | 0     | 0   |
| 12        | 0   | 185   | 0   | 0     | 0     | 95     | 142   | 198   | 0     | 0   | 0     | 0   |
| 13        | 0   | 296   | 0   | 0     | 0     | 164    | 60    | 227   | 0     | 0   | 0     | 0   |
| 14        | 0   | 175   | 0   | 0     | 0     | 0      | 0     | 337   | 0     | 0   | 0     | 0   |
| 15        | 0   | 0     | 0   | 0     | 0     | 0      | 47    | 232   | 0     | 0   | 0     | 0   |
| 16        | 0   | 0     | 0   | 0     | 0     | 0      | 0     | 53    | 0     | 0   | 0     | 0   |
| 17        | 0   | 0     | 0   | 0     | 0     | 0      | 0     | 0     | 0     | 0   | 0     | 0   |
| 18        | 0   | 0     | 0   | 0     | 0     | 0      | 179   | 0     | 0     | 0   | 0     | 0   |
| 19        | 0   | 0     | 0   | 0     | 0     | 74     | 292   | 0     | 0     | 0   | 0     | 0   |
| 20        | 0   | 0     | 0   | 0     | 69    | 117    | 42    | 0     | 0     | 0   | 0     | 0   |
| 21        | 0   | 0     | 0   | 0     | 201   | 48     | 0     | 0     | 0     | 0   | 0     | 0   |
| 22        | 0   | 0     | 0   | 0     | 244   | 0      | 0     | 0     | 0     | 0   | 0     | 0   |
| 23        | 0   | 0     | 0   | 0     | 255   | 0      | 88    | 0     | 0     | 0   | 0     | 0   |
| 24        | 0   | 0     | 0   | 0     | 236   | 0      | 71    | 48    | 0     | 0   | 0     | 0   |
| 25        | 0   | 0     | 0   | 0     | 186   | 242    | 49    | 179   | 0     | 0   | 0     | 0   |
| 26        | 0   | 0     | 0   | 0     | 104   | 315    | 88    | 189   | 0     | 0   | 0     | 0   |
| 27        | 0   | 0     | 0   | 0     | 0     | 261    | 55    | 306   | 0     | 0   | 0     | 0   |
| 28        | 0   | 0     | 0   | 0     | 0     | 150    | 109   | 403   | 0     | 0   | 0     | 0   |
| 29        | 0   | 0     | 0   | 0     | 0     | 51     | 82    | 476   | 0     | 0   | 0     | 0   |
| 30        | 0   | ----- | 0   | 0     | 0     | 0      | 88    | 306   | 0     | 0   | 0     | 0   |
| 31        | 0   | ----- | 0   | ----- | 0     | -----  | 95    | 128   | ----- | 0   | ----- | 0   |
| TOTAL     | 0   | 656   | 0   | 0     | 1,295 | 1,564  | 3,639 | 4,095 | 212   | 0   | 0     | 0   |
| MEAN      | 0   | 22.6  | 0   | 0     | 41.8  | 52.1   | 117   | 132   | 7.07  | 0   | 0     | 0   |
| MAX       | 0   | 296   | 0   | 0     | 255   | 315    | 435   | 476   | 140   | 0   | 0     | 0   |
| MIN       | 0   | 0     | 0   | 0     | 0     | 0      | 0     | 0     | 0     | 0   | 0     | 0   |
| AC-FT     | 0   | 1,300 | 0   | 0     | 2,570 | 3,100  | 7,220 | 8,120 | 421   | 0   | 0     | 0   |
| YEAR 1996 | MAX | 476   | MIN | 0     | AC-FT | 22,730 |       |       |       |     |       |     |



## PLATTE RIVER BASIN

## ELWOOD RESERVOIR from Platte River, 00403300 - 1996

LOCATION.--NW1/4NW1/4 Sec.43-8-22 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<br>(feet) | CONTENT<br>(acre-feet) |
|--------------------------------|---------------------|------------------------|
| Top of flood pool              | 2613.0              | 45,037                 |
| Top of conservation pool       | 2607.0              | 37,800                 |
| Minimum normal operating level | 2576.3              | 12,100                 |
| Top of dead storage pool       | 2568.8              | 8,295                  |

## DAILY CONTENTS IN ACRE-FEET FOR 1996

| Day       | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1         | 13,400 | 12,500 | 11,700 | 19,600 | 28,100 | 35,100 | 37,700 | 30,500 | 21,100 | 18,700 | 17,300 | 16,200 |
| 2         | 13,400 | 12,500 | 11,700 | 19,900 | 28,300 | 35,300 | 37,200 | 30,500 | 20,700 | 18,600 | 17,200 | 16,100 |
| 3         | 13,300 | 12,400 | 11,600 | 20,200 | 28,600 | 35,500 | 36,700 | 30,300 | 20,400 | 18,600 | 17,200 | 16,100 |
| 4         | 13,300 | 12,400 | 11,500 | 20,600 | 28,800 | 35,600 | 36,200 | 30,300 | 20,000 | 18,500 | 17,200 | 16,100 |
| 5         | 13,300 | 12,400 | 11,500 | 29,800 | 29,100 | 35,800 | 35,700 | 30,300 | 19,800 | 18,500 | 17,200 | 16,100 |
| 6         | 13,200 | 12,400 | 11,500 | 21,200 | 29,300 | 35,900 | 35,100 | 30,200 | 19,600 | 18,500 | 17,000 | 16,000 |
| 7         | 13,200 | 12,300 | 11,500 | 21,500 | 29,600 | 36,000 | 34,700 | 29,900 | 19,600 | 18,400 | 17,000 | 16,000 |
| 8         | 13,100 | 12,300 | 11,400 | 21,700 | 29,800 | 36,200 | 34,500 | 29,700 | 19,600 | 18,400 | 17,000 | 16,000 |
| 9         | 13,100 | 12,300 | 11,400 | 22,200 | 30,200 | 36,300 | 34,400 | 29,300 | 19,500 | 18,300 | 16,900 | 15,900 |
| 10        | 13,100 | 12,300 | 11,400 | 22,500 | 30,300 | 36,500 | 34,200 | 29,000 | 19,400 | 18,300 | 16,900 | 15,900 |
| 11        | 13,100 | 12,200 | 11,400 | 22,800 | 30,400 | 36,700 | 34,100 | 28,700 | 19,400 | 18,200 | 16,900 | 15,900 |
| 12        | 13,100 | 12,200 | 11,500 | 23,100 | 30,700 | 36,800 | 33,800 | 28,300 | 19,300 | 18,200 | 16,800 | 15,800 |
| 13        | 13,100 | 12,200 | 12,000 | 23,400 | 31,000 | 37,000 | 33,500 | 27,900 | 19,300 | 18,200 | 16,700 | 15,800 |
| 14        | 13,000 | 12,200 | 12,500 | 23,700 | 31,300 | 37,000 | 33,200 | 27,500 | 19,300 | 18,100 | 16,700 | 15,700 |
| 15        | 13,000 | 12,100 | 12,900 | 24,000 | 31,500 | 37,300 | 33,000 | 27,100 | 19,200 | 18,100 | 16,700 | 15,700 |
| 16        | 13,000 | 12,100 | 13,400 | 24,300 | 31,700 | 37,500 | 32,700 | 26,900 | 19,200 | 18,000 | 16,700 | 15,700 |
| 17        | 13,000 | 12,000 | 13,700 | 24,600 | 31,900 | 37,600 | 32,300 | 26,500 | 19,100 | 17,900 | 16,700 | 15,600 |
| 18        | 12,900 | 12,000 | 14,100 | 24,900 | 32,100 | 38,800 | 31,900 | 26,000 | 19,200 | 17,900 | 16,700 | 15,600 |
| 19        | 12,900 | 12,000 | 14,500 | 25,100 | 32,300 | 37,800 | 31,500 | 25,600 | 19,200 | 17,900 | 16,600 | 15,500 |
| 20        | 12,900 | 12,000 | 14,700 | 25,500 | 32,400 | 37,900 | 31,400 | 25,300 | 19,100 | 17,800 | 16,500 | 15,500 |
| 21        | 12,900 | 11,900 | 15,400 | 25,600 | 32,600 | 38,000 | 31,300 | 24,900 | 19,100 | 17,700 | 16,500 | 15,500 |
| 22        | 12,800 | 11,900 | 15,800 | 25,900 | 32,800 | 38,100 | 31,200 | 24,500 | 19,000 | 17,700 | 16,500 | 15,500 |
| 23        | 12,800 | 11,900 | 16,100 | 26,100 | 33,000 | 38,100 | 31,200 | 24,100 | 19,000 | 17,700 | 16,500 | 15,400 |
| 24        | 12,700 | 11,900 | 16,600 | 26,400 | 33,200 | 38,300 | 31,100 | 23,700 | 19,000 | 17,700 | 16,400 | 15,300 |
| 25        | 12,700 | 11,800 | 16,700 | 26,600 | 33,400 | 38,300 | 31,100 | 23,400 | 19,000 | 17,600 | 16,400 | 15,300 |
| 26        | 12,700 | 11,800 | 17,400 | 26,800 | 33,600 | 38,300 | 31,000 | 23,100 | 18,900 | 17,600 | 16,300 | 15,300 |
| 27        | 12,700 | 11,800 | 17,700 | 27,100 | 34,200 | 38,400 | 30,900 | 22,700 | 18,800 | 17,500 | 16,300 | 15,300 |
| 28        | 12,600 | 11,700 | 18,100 | 27,400 | 34,400 | 38,400 | 30,900 | 22,300 | 18,800 | 17,400 | 16,300 | 15,300 |
| 29        | 12,600 | 11,700 | 18,500 | 27,700 | 34,500 | 38,300 | 30,700 | 22,000 | 18,700 | 17,400 | 16,300 | 15,200 |
| 30        | 12,600 | -----  | 18,800 | 27,800 | 34,700 | 38,000 | 30,700 | 21,700 | 18,700 | 17,400 | 16,300 | 15,100 |
| 31        | 12,600 | -----  | 19,200 | -----  | 34,900 | -----  | 30,600 | 21,400 | -----  | 17,300 | -----  | 15,100 |
| MAX       | 13,400 | 12,500 | 19,200 | 29,800 | 34,900 | 38,800 | 37,700 | 30,500 | 21,100 | 18,700 | 17,300 | 16,200 |
| MIN       | 12,600 | 11,700 | 11,400 | 19,600 | 28,100 | 35,100 | 30,600 | 21,400 | 18,700 | 17,300 | 16,300 | 15,100 |
| YEAR 1996 |        |        | MEAN   | 21,820 | MAX    | 38,800 | MIN    | 11,400 |        |        |        |        |

# PLATTE RIVER BASIN

**JOHNSON RESERVOIR from Platte River, 00403800 - 1996**

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<br>(feet) | CONTENT<br>(acre-feet) |
|-------------------------|---------------------|------------------------|
| Operating level         | 2620.0              | 46,935                 |
| Minimum operating level | 2590.9              | 0                      |

DAILY CONTENTS IN ACRE-FEET FOR 1996

| Day       | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1         | 40,100 | 42,900 | 40,500 | 46,300 | 43,900 | 42,200 | 43,900 | 44,700 | 43,900 | 43,200 | 46,400 | 44,200 |
| 2         | 40,300 | 43,900 | 39,800 | 42,400 | 44,700 | 42,200 | 43,700 | 44,400 | 43,900 | 42,900 | 46,700 | 44,400 |
| 3         | 40,100 | 43,900 | 40,800 | 42,400 | 44,200 | 41,700 | 42,700 | 44,200 | 43,900 | 42,700 | 46,700 | 44,700 |
| 4         | 39,600 | 43,400 | 40,800 | 42,400 | 44,200 | 41,700 | 42,200 | 44,400 | 43,900 | 42,700 | 46,400 | 46,200 |
| 5         | 39,100 | 43,400 | 40,800 | 42,400 | 44,400 | 41,700 | 41,900 | 44,200 | 43,700 | 42,400 | 46,200 | 45,700 |
| 6         | 38,400 | 43,200 | 40,800 | 42,400 | 44,400 | 41,900 | 41,700 | 43,900 | 43,700 | 41,900 | 45,900 | 45,700 |
| 7         | 37,700 | 42,900 | 41,000 | 42,200 | 44,400 | 41,900 | 41,700 | 44,400 | 43,400 | 42,200 | 45,900 | 45,700 |
| 8         | 37,800 | 42,900 | 40,100 | 41,700 | 44,900 | 42,400 | 43,400 | 44,400 | 43,400 | 42,700 | 45,900 | 45,400 |
| 9         | 38,600 | 42,700 | 39,400 | 41,200 | 44,400 | 42,400 | 43,900 | 44,200 | 43,200 | 43,700 | 45,400 | 45,400 |
| 10        | 39,400 | 42,200 | 38,900 | 41,900 | 43,900 | 42,200 | 43,700 | 43,700 | 42,700 | 43,700 | 44,900 | 45,400 |
| 11        | 38,900 | 41,900 | 39,600 | 42,200 | 44,200 | 42,200 | 43,900 | 43,400 | 42,700 | 43,400 | 44,900 | 45,900 |
| 12        | 38,600 | 42,400 | 40,500 | 41,900 | 44,400 | 42,200 | 43,200 | 43,200 | 42,900 | 43,700 | 44,400 | 45,400 |
| 13        | 38,600 | 41,700 | 40,800 | 41,900 | 44,200 | 42,400 | 43,400 | 43,400 | 42,900 | 43,700 | 44,400 | 45,700 |
| 14        | 39,100 | 41,500 | 40,800 | 41,200 | 43,900 | 42,400 | 43,900 | 43,400 | 42,700 | 43,900 | 44,400 | 45,900 |
| 15        | 39,600 | 41,200 | 41,000 | 41,000 | 44,200 | 42,700 | 43,900 | 43,900 | 42,700 | 44,400 | 44,200 | 45,900 |
| 16        | 39,400 | 41,700 | 41,200 | 40,800 | 43,900 | 42,900 | 43,900 | 44,900 | 42,400 | 44,200 | 44,700 | 46,200 |
| 17        | 39,600 | 41,900 | 41,200 | 41,000 | 43,700 | 42,900 | 44,200 | 44,900 | 42,200 | 42,900 | 44,700 | 45,900 |
| 18        | 39,400 | 42,200 | 41,900 | 41,200 | 43,900 | 42,900 | 44,700 | 44,900 | 42,400 | 41,500 | 44,200 | 43,700 |
| 19        | 38,600 | 42,700 | 42,700 | 41,500 | 43,700 | 43,200 | 44,700 | 44,900 | 43,200 | 40,100 | 44,200 | 42,200 |
| 20        | 38,400 | 43,400 | 43,200 | 41,700 | 43,400 | 43,200 | 44,200 | 44,700 | 43,400 | 39,100 | 44,400 | 41,500 |
| 21        | 38,400 | 43,700 | 42,700 | 42,200 | 42,700 | 43,200 | 44,200 | 44,400 | 43,700 | 38,900 | 44,700 | 41,200 |
| 22        | 38,600 | 44,200 | 42,400 | 42,400 | 41,500 | 43,200 | 44,400 | 44,400 | 43,900 | 38,400 | 44,900 | 41,000 |
| 23        | 38,600 | 44,200 | 42,400 | 42,400 | 41,200 | 43,400 | 44,900 | 44,400 | 44,200 | 38,200 | 44,900 | 40,500 |
| 24        | 38,600 | 44,200 | 42,700 | 42,700 | 40,800 | 43,400 | 44,700 | 44,700 | 43,900 | 37,900 | 45,200 | 40,100 |
| 25        | 38,200 | 43,200 | 42,200 | 42,900 | 40,500 | 43,400 | 44,900 | 44,400 | 43,900 | 38,200 | 44,900 | 39,600 |
| 26        | 38,200 | 41,900 | 41,900 | 42,700 | 42,700 | 42,700 | 44,400 | 43,900 | 43,700 | 37,700 | 44,400 | 39,100 |
| 27        | 37,700 | 40,100 | 41,500 | 42,700 | 42,900 | 43,200 | 43,700 | 43,700 | 43,400 | 39,100 | 43,900 | 39,400 |
| 28        | 37,200 | 39,800 | 41,200 | 42,900 | 42,900 | 43,200 | 43,400 | 43,200 | 43,400 | 41,500 | 43,700 | 39,400 |
| 29        | 38,900 | 40,300 | 41,500 | 42,900 | 42,400 | 43,700 | 43,900 | 42,900 | 43,400 | 44,400 | 43,900 | 39,600 |
| 30        | 40,100 | -----  | 41,700 | 43,400 | 42,400 | 44,200 | 44,400 | 43,400 | 43,200 | 46,400 | 44,200 | 39,600 |
| 31        | 41,500 | -----  | 42,200 | -----  | 42,400 | -----  | 44,700 | 43,700 | -----  | 46,400 | -----  | 39,600 |
| MAX       | 41,500 | 44,200 | 43,200 | 46,300 | 44,900 | 44,200 | 44,900 | 44,900 | 44,200 | 46,400 | 46,700 | 46,200 |
| MIN       | 37,200 | 39,800 | 38,900 | 40,800 | 40,500 | 41,700 | 41,700 | 42,900 | 42,200 | 37,700 | 43,700 | 39,100 |
| YEAR 1996 | MAX    | 46,700 | MIN    | 37,200 |        |        |        |        |        |        |        |        |

## PLATTE RIVER BASIN

## PHELPS COUNTY CANAL from Platte River via Tri-County Canal, 00122000 - 1996

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

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

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

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL    | AUG    | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|--------|--------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 117   | 122    | 419    | 82     | 306   |     |       |     |
| 2         |     |       |     | 0     | 140   | 124    | 684    | 107    | 306   |     |       |     |
| 3         |     |       |     | 0     | 150   | 125    | 924    | 85     | 306   |     |       |     |
| 4         |     |       |     | 0     | 123   | 179    | 995    | 166    | 300   |     |       |     |
| 5         |     |       |     | 0     | 97    | 195    | 1,000  | 217    | 251   |     |       |     |
| 6         |     |       |     | 0     | 89    | 187    | 1,100  | 176    | 238   |     |       |     |
| 7         |     |       |     | 0     | 86    | 173    | 1,050  | 150    | 221   |     |       |     |
| 8         |     |       |     | 0     | 89    | 211    | 458    | 150    | 160   |     |       |     |
| 9         |     |       |     | 0     | 77    | 211    | 315    | 154    | 152   |     |       |     |
| 10        |     |       |     | 0     | 79    | 244    | 308    | 188    | 55    |     |       |     |
| 11        |     |       |     | 0     | 103   | 247    | 349    | 201    | 0     |     |       |     |
| 12        |     |       |     | 0     | 110   | 208    | 459    | 215    | 0     |     |       |     |
| 13        |     |       |     | 0     | 126   | 199    | 542    | 268    | 0     |     |       |     |
| 14        |     |       |     | 0     | 125   | 203    | 560    | 325    | 0     |     |       |     |
| 15        |     |       |     | 0     | 140   | 211    | 703    | 398    | 0     |     |       |     |
| 16        |     |       |     | 0     | 141   | 33     | 874    | 345    | 0     |     |       |     |
| 17        |     |       |     | 0     | 148   | 201    | 910    | 303    | 0     |     |       |     |
| 18        |     |       |     | 0     | 153   | 247    | 904    | 310    | 0     |     |       |     |
| 19        |     |       |     | 0     | 168   | 219    | 787    | 376    | 0     |     |       |     |
| 20        |     |       |     | 0     | 168   | 234    | 317    | 522    | 0     |     |       |     |
| 21        |     |       |     | 0     | 181   | 245    | 135    | 665    | 0     |     |       |     |
| 22        |     |       |     | 29    | 209   | 236    | 62     | 649    | 0     |     |       |     |
| 23        |     |       |     | 56    | 210   | 181    | 125    | 659    | 0     |     |       |     |
| 24        |     |       |     | 58    | 211   | 181    | 134    | 644    | 0     |     |       |     |
| 25        |     |       |     | 86    | 198   | 189    | 134    | 521    | 0     |     |       |     |
| 26        |     |       |     | 132   | 103   | 224    | 134    | 662    | 0     |     |       |     |
| 27        |     |       |     | 150   | 36    | 259    | 134    | 788    | 0     |     |       |     |
| 28        |     |       |     | 157   | 62    | 241    | 134    | 403    | 0     |     |       |     |
| 29        |     |       |     | 158   | 97    | 268    | 93     | 781    | 0     |     |       |     |
| 30        |     | ----- |     | 130   | 131   | 311    | 50     | 674    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 126   | -----  | 55     | 364    | ----- |     | ----- |     |
| TOTAL     |     |       |     | 956   | 3,995 | 6,108  | 14,848 | 11,550 | 2,295 |     |       |     |
| MEAN      |     |       |     | 31.9  | 129   | 204    | 479    | 373    | 76.5  |     |       |     |
| MAX       |     |       |     | 158   | 211   | 311    | 1,100  | 788    | 306   |     |       |     |
| MIN       |     |       |     | 0     | 36    | 33     | 50     | 82     | 0     |     |       |     |
| AC-FT     |     |       |     | 1,900 | 7,920 | 12,120 | 29,450 | 22,910 | 4,550 |     |       |     |
| YEAR 1996 | MAX | 1,100 | MIN | 0     | AC-FT | 78,850 |        |        |       |     |       |     |

# PLATTE RIVER BASIN

**JOHNSON POWER RETURN to Platte River, 00144000 - 1996**

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1941 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB      | MAR    | APR    | MAY    | JUN     | JUL      | AUG      | SEP    | OCT    | NOV     | DEC    |
|-----------|--------|----------|--------|--------|--------|---------|----------|----------|--------|--------|---------|--------|
| 1         | 1,460  | 400      | 1,520  | 1,350  | 533    | 1,520   | 767      | 1,480    | 1,020  | 1,800  | 1,750   | 1,780  |
| 2         | 1,460  | 76.0     | 1,730  | 1,590  | 504    | 1,580   | 714      | 1,500    | 1,200  | 1,800  | 1,760   | 1,780  |
| 3         | 1,660  | 1,180    | 1,040  | 1,720  | 647    | 1,540   | 171      | 1,600    | 1,270  | 1,790  | 1,760   | 1,770  |
| 4         | 1,670  | 1,150    | 1,750  | 1,720  | 582    | 1,480   | 100      | 1,390    | 1,290  | 1,800  | 1,780   | 1,500  |
| 5         | 1,600  | 1,170    | 1,750  | 1,720  | 653    | 1,090   | 0        | 1,330    | 1,380  | 1,800  | 1,810   | 1,750  |
| 6         | 1,480  | 1,170    | 1,750  | 1,720  | 691    | 1,130   | 0        | 1,360    | 1,400  | 1,800  | 1,810   | 1,770  |
| 7         | 1,490  | 1,180    | 1,760  | 1,650  | 660    | 1,220   | 0        | 1,390    | 1,420  | 1,780  | 1,770   | 1,790  |
| 8         | 1,040  | 1,220    | 1,760  | 1,720  | 723    | 1,180   | 216      | 1,390    | 1,430  | 1,730  | 1,800   | 1,780  |
| 9         | 783    | 1,460    | 1,450  | 1,370  | 780    | 1,240   | 711      | 1,390    | 1,490  | 1,390  | 1,830   | 1,780  |
| 10        | 874    | 1,620    | 1,120  | 1,230  | 1,040  | 1,320   | 917      | 1,350    | 1,630  | 1,650  | 1,830   | 1,770  |
| 11        | 1,420  | 1,620    | 1,010  | 1,460  | 802    | 1,140   | 909      | 1,340    | 1,680  | 1,790  | 1,830   | 1,760  |
| 12        | 1,610  | 1,610    | 999    | 1,740  | 831    | 1,300   | 526      | 1,150    | 1,590  | 1,790  | 1,780   | 1,760  |
| 13        | 1,610  | 1,670    | 1,540  | 1,590  | 1,310  | 1,140   | 387      | 780      | 1,690  | 1,770  | 1,750   | 1,770  |
| 14        | 1,580  | 1,770    | 1,570  | 1,610  | 1,050  | 1,120   | 499      | 626      | 1,720  | 1,670  | 1,750   | 1,760  |
| 15        | 1,640  | 1,770    | 1,520  | 1,750  | 866    | 1,300   | 608      | 443      | 1,740  | 1,640  | 1,750   | 1,750  |
| 16        | 1,430  | 1,750    | 1,450  | 1,580  | 1,180  | 1,440   | 282      | 879      | 1,740  | 1,620  | 1,770   | 1,670  |
| 17        | 1,180  | 1,650    | 1,470  | 1,590  | 810    | 1,270   | 293      | 1,280    | 1,740  | 1,510  | 1,780   | 1,210  |
| 18        | 1,220  | 1,740    | 1,180  | 1,540  | 734    | 1,230   | 80.0     | 1,260    | 1,740  | 1,580  | 1,780   | 1,630  |
| 19        | 1,080  | 1,730    | 1,240  | 1,520  | 614    | 1,230   | 211      | 1,180    | 1,740  | 1,580  | 1,750   | 1,660  |
| 20        | 991    | 1,490    | 1,340  | 1,440  | 738    | 1,230   | 829      | 1,030    | 1,740  | 1,610  | 1,730   | 1,510  |
| 21        | 1,040  | 1,720    | 1,620  | 1,430  | 745    | 1,210   | 1,140    | 904      | 1,730  | 1,600  | 1,740   | 1,170  |
| 22        | 1,070  | 1,720    | 1,600  | 1,410  | 649    | 1,180   | 1,210    | 922      | 1,730  | 1,170  | 1,760   | 1,120  |
| 23        | 1,090  | 1,730    | 1,530  | 1,560  | 733    | 1,220   | 1,030    | 922      | 1,720  | 927    | 1,770   | 1,130  |
| 24        | 1,100  | 1,720    | 1,500  | 1,220  | 747    | 1,380   | 1,240    | 890      | 1,730  | 906    | 1,780   | 1,140  |
| 25        | 1,240  | 1,700    | 1,530  | 1,060  | 757    | 1,180   | 1,150    | 977      | 1,730  | 915    | 1,780   | 1,160  |
| 26        | 1,380  | 1,530    | 1,520  | 1,040  | 648    | 1,200   | 1,470    | 791      | 1,770  | 1,690  | 1,780   | 1,040  |
| 27        | 1,160  | 1,520    | 1,460  | 936    | 1,650  | 735     | 1,480    | 550      | 1,800  | 979    | 1,780   | 890    |
| 28        | 1,310  | 613      | 1,480  | 811    | 1,630  | 872     | 1,480    | 743      | 1,800  | 461    | 1,780   | 890    |
| 29        | 552    | 871      | 1,450  | 675    | 1,650  | 758     | 1,070    | 23.0     | 1,800  | 304    | 1,780   | 931    |
| 30        | 400    | -----    | 1,370  | 690    | 1,540  | 686     | 1,190    | 269      | 1,800  | 863    | 1,780   | 923    |
| 31        | 400    | -----    | 1,140  | -----  | 1,420  | -----   | 1,160    | 746      | -----  | 1,740  | -----   | 934    |
| TOTPL     | 38,020 | 40,550.0 | 45,149 | 42,442 | 27,917 | 36,121  | 21,840.0 | 31,875.0 | 48,260 | 45,455 | 53,300  | 45,278 |
| MEAN      | 1,226  | 1,398    | 1,456  | 1,415  | 901    | 1,204   | 705      | 1,028    | 1,609  | 1,466  | 1,777   | 1,461  |
| MAX       | 1,670  | 1,770    | 1,760  | 1,750  | 1,650  | 1,580   | 1,480    | 1,600    | 1,800  | 1,800  | 1,830   | 1,790  |
| MIN       | 400    | 76.0     | 999    | 675    | 504    | 686     | 0        | 23.0     | 1,020  | 304    | 1,730   | 890    |
| AC-FT     | 75,413 | 80,431   | 89,553 | 84,184 | 55,373 | 71,646  | 43,320   | 63,224   | 95,724 | 90,160 | 105,721 | 89,809 |
| YEAR 1996 | MAX    | 1,830    | MIN    | 0      | AC-FT  | 944,557 |          |          |        |        |         |        |

## PLATTE RIVER BASIN

## PLATTE RIVER below Tri-County Diversion Dam, 00229000 - 1996

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

DRAINAGE AREA.--Not determined.

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

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

REMARKS.--E indicates estimated daily discharge. Estimated records January 2-3, 5-9, 17-February 14, 26-March 1, 7-10, 25-27, June 30, December 15, 17-31. Records fair, except estimated records poor.

EXTREMES FOR CURRENT YEAR.--Peak discharge 5,080 cubic feet per second September 21, gage height 6.63 feet; minimum daily discharge 36 cubic feet per second April 21.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR    | APR   | MAY   | JUN    | JUL    | AUG    | SEP     | OCT     | NOV   | DEC    |
|-----------|--------|---------|--------|-------|-------|--------|--------|--------|---------|---------|-------|--------|
| 1         | 53     | 160E    | 430E   | 46    | 52    | 406    | 833    | 1,330  | 350     | 2,360   | 121   | 109    |
| 2         | 50E    | 190E    | 248    | 58    | 55    | 294    | 1,040  | 1,280  | 442     | 2,260   | 110   | 57     |
| 3         | 52E    | 300E    | 433    | 54    | 54    | 151    | 1,230  | 1,320  | 621     | 2,150   | 98    | 50     |
| 4         | 55     | 150E    | 537    | 54    | 52    | 138    | 1,440  | 1,060  | 565     | 2,030   | 72    | 50     |
| 5         | 70E    | 300E    | 407    | 39    | 52    | 208    | 1,430  | 1,200  | 502     | 1,910   | 43    | 49     |
| 6         | 370E   | 250E    | 227    | 49    | 52    | 274    | 1,510  | 1,050  | 558     | 1,800   | 44    | 53     |
| 7         | 520E   | 200E    | 480E   | 53    | 56    | 278    | 1,670  | 1,030  | 1,180   | 1,760   | 54    | 54     |
| 8         | 560E   | 200E    | 800E   | 51    | 66    | 166    | 2,070  | 876    | 1,350   | 1,820   | 54    | 55     |
| 9         | 130E   | 300E    | 1,080E | 49    | 63    | 140    | 1,980  | 704    | 988     | 1,560   | 59    | 57     |
| 10        | 62     | 320E    | 660E   | 55    | 54    | 149    | 1,650  | 709    | 841     | 970     | 56    | 55     |
| 11        | 56     | 350E    | 231    | 55    | 51    | 163    | 1,810  | 731    | 763     | 694     | 52    | 56     |
| 12        | 57     | 400E    | 169    | 57    | 55    | 168    | 1,470  | 743    | 697     | 351     | 52    | 64     |
| 13        | 57     | 680E    | 92     | 74    | 60    | 257    | 1,540  | 693    | 646     | 176     | 49    | 70     |
| 14        | 55     | 640E    | 62     | 153   | 66    | 474    | 1,550  | 713    | 636     | 230     | 51    | 82     |
| 15        | 50     | 597     | 63     | 123   | 75    | 471    | 1,520  | 797    | 783     | 82      | 50    | 76E    |
| 16        | 51     | 585     | 43     | 114   | 78    | 701    | 1,720  | 1,180  | 878     | 64      | 51    | 69     |
| 17        | 46E    | 550     | 60     | 79    | 70    | 525    | 1,670  | 1,350  | 930     | 61      | 49    | 500E   |
| 18        | 50E    | 491     | 77     | 46    | 60    | 350    | 1,360  | 951    | 1,320   | 57      | 58    | 530E   |
| 19        | 54E    | 485     | 54     | 42    | 61    | 296    | 1,460  | 1,080  | 2,570   | 57      | 93    | 590E   |
| 20        | 220E   | 404     | 46     | 38    | 54    | 273    | 2,070  | 1,010  | 3,940   | 61      | 142   | 360E   |
| 21        | 290E   | 241     | 39     | 36    | 45    | 356    | 1,780  | 704    | 4,870   | 56      | 135   | 330E   |
| 22        | 300E   | 117     | 41     | 44    | 47    | 465    | 1,410  | 627    | 4,340   | 55      | 96    | 290E   |
| 23        | 280E   | 102     | 40     | 44    | 45    | 473    | 1,180  | 482    | 3,430   | 53      | 112   | 320E   |
| 24        | 270E   | 97      | 46     | 53    | 46    | 325    | 1,250  | 347    | 3,380   | 56      | 103   | 290E   |
| 25        | 250E   | 84      | 60E    | 60    | 45    | 285    | 1,120  | 314    | 3,890   | 81      | 112   | 290E   |
| 26        | 210E   | 78E     | 70E    | 45    | 230   | 303    | 1,110  | 300    | 3,350   | 69      | 134   | 250E   |
| 27        | 200E   | 72E     | 86E    | 44    | 721   | 468    | 1,120  | 285    | 3,050   | 54      | 172   | 240E   |
| 28        | 190E   | 70E     | 65     | 42    | 681   | 666    | 1,010  | 268    | 2,920   | 154     | 249   | 320E   |
| 29        | 180E   | 400E    | 67     | 46    | 378   | 796    | 964    | 314    | 2,660   | 175     | 267   | 360E   |
| 30        | 160E   | -----   | 52     | 50    | 191   | 820E   | 841    | 380    | 2,450   | 167     | 194   | 390E   |
| 31        | 140E   | -----   | 39     | ----- | 291   | -----  | 1,060  | 377    | -----   | 177     | ----- | 470E   |
| TOTAL     | 5,088  | 8,813   | 6,804  | 1,753 | 3,906 | 10,839 | 43,868 | 24,205 | 54,900  | 21,550  | 2,932 | 6,536  |
| MEAN      | 164    | 304     | 219    | 58.4  | 126   | 361    | 1,415  | 781    | 1,830   | 695     | 97.7  | 211    |
| MAX       | 560    | 680     | 1,080  | 153   | 721   | 820    | 2,070  | 1,350  | 4,870   | 2,360   | 267   | 590    |
| MIN       | 46     | 70      | 39     | 36    | 45    | 138    | 833    | 268    | 350     | 53      | 43    | 49     |
| AC-FT     | 10,090 | 17,480  | 13,500 | 3,480 | 7,750 | 21,500 | 87,010 | 48,010 | 108,900 | 42,740  | 5,820 | 12,960 |
| YEAR 1996 | TOTAL  | 191,194 | MEAN   | 522   | MAX   | 4,870  | MIN    | 36     | AC-FT   | 379,200 |       |        |

# PLATTE RIVER BASIN

## PLATTE RIVER at Brady, 06766000 - 1996

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

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

GAGE.--Continuous stage recorders on north channel (no. 1) and south channel (no. 4). Channel no. 1 gage datum is 2,639.19 feet above sea level and channel no. 4 gage datum is 2,640.66 feet above sea level.

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1991.  
E indicates estimated daily discharge. Estimated records January 1-5, 17-February 21, February 27-March 11, 14-19, November 17-18, 24-December 4, December 15-31. Records fair, except estimated records poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 23,500 cubic feet per second June 29, 1963.  
No flow August 22-24, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharge 4,490 cubic feet per second September 21, combined channel flow; minimum daily discharge 87 cubic feet per second on March 25, combined channel flow.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR    | APR   | MAY    | JUN    | JUL    | AUG    | SEP    | OCT     | NOV    | DEC    |
|-----------|--------|---------|--------|-------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1         | 125E   | 190E    | 600E   | 150   | 142    | 616    | 718    | 1,270  | 450    | 1,860   | 203    | 220E   |
| 2         | 104E   | 245E    | 410E   | 153   | 142    | 581    | 811    | 1,170  | 409    | 1,800   | 194    | 200E   |
| 3         | 114E   | 245E    | 500E   | 149   | 142    | 362    | 1,060  | 1,210  | 577    | 1,720   | 191    | 180E   |
| 4         | 130E   | 350E    | 600E   | 147   | 141    | 267    | 1,240  | 1,020  | 564    | 1,710   | 189    | 170E   |
| 5         | 120E   | 500E    | 500E   | 145   | 139    | 284    | 1,380  | 1,080  | 502    | 1,660   | 161    | 170    |
| 6         | 163    | 450E    | 360E   | 146   | 131    | 386    | 1,390  | 1,020  | 491    | 1,570   | 152    | 175    |
| 7         | 521    | 410E    | 540E   | 151   | 131    | 409    | 1,450  | 959    | 883    | 1,650   | 144    | 170    |
| 8         | 694    | 360E    | 900E   | 150   | 134    | 361    | 1,860  | 859    | 1,120  | 1,610   | 143    | 166    |
| 9         | 603    | 460E    | 1,200E | 146   | 132    | 234    | 1,860  | 851    | 936    | 1,520   | 144    | 167    |
| 10        | 289    | 520E    | 800E   | 145   | 131    | 202    | 1,700  | 645    | 731    | 1,180   | 142    | 165    |
| 11        | 200    | 580E    | 300E   | 143   | 133    | 194    | 1,710  | 662    | 669    | 850     | 141    | 169    |
| 12        | 196    | 620E    | 305    | 138   | 140    | 211    | 1,480  | 686    | 641    | 674     | 142    | 169    |
| 13        | 192    | 780E    | 218    | 133   | 144    | 195    | 1,520  | 673    | 602    | 432     | 144    | 167    |
| 14        | 186    | 800E    | 205E   | 174   | 143    | 470    | 1,530  | 646    | 597    | 309     | 146    | 172    |
| 15        | 163    | 760E    | 190E   | 249   | 140    | 495    | 1,410  | 700    | 663    | 332     | 151    | 165E   |
| 16        | 166    | 700E    | 180E   | 255   | 134    | 747    | 1,540  | 941    | 780    | 218     | 157    | 160E   |
| 17        | 130E   | 660E    | 170E   | 214   | 131    | 763    | 1,520  | 1,190  | 791    | 211     | 165E   | 620E   |
| 18        | 110E   | 560E    | 150E   | 189   | 125    | 503    | 1,290  | 1,100  | 925    | 193     | 175E   | 660E   |
| 19        | 96E    | 500E    | 140E   | 152   | 119    | 314    | 1,170  | 1,040  | 596    | 183     | 185    | 760E   |
| 20        | 104E   | 440E    | 125    | 141   | 117    | 254    | 1,610  | 1,100  | 2,890  | 178     | 210    | 520E   |
| 21        | 190E   | 300E    | 129    | 135   | 118    | 285    | 1,710  | 885    | 3,920  | 177     | 235    | 460E   |
| 22        | 240E   | 183     | 132    | 133   | 118    | 410    | 1,460  | 758    | 3,750  | 171     | 232    | 410E   |
| 23        | 290E   | 156     | 136    | 140   | 120    | 498    | 1,300  | 664    | 3,090  | 165     | 180    | 460E   |
| 24        | 330E   | 155     | 114    | 135   | 127    | 411    | 1,320  | 546    | 2,800  | 163     | 175E   | 400E   |
| 25        | 340E   | 151     | 87     | 137   | 131    | 264    | 1,220  | 452    | 3,240  | 163     | 175E   | 410E   |
| 26        | 320E   | 140     | 131    | 128   | 215    | 249    | 1,110  | 430    | 3,140  | 168     | 205E   | 360E   |
| 27        | 290E   | 145E    | 184    | 121   | 845    | 346    | 1,160  | 408    | 2,800  | 152     | 235E   | 350E   |
| 28        | 240E   | 116E    | 222    | 140   | 1,210  | 516    | 1,070  | 390    | 2,620  | 160     | 330E   | 420E   |
| 29        | 190E   | 500E    | 167    | 148   | 815    | 662    | 1,030  | 371    | 2,350  | 214     | 370E   | 470E   |
| 30        | 180E   | -----   | 160    | 142   | 516    | 696    | 958    | 414    | 2,110  | 190     | 320E   | 520E   |
| 31        | 170E   | -----   | 150    | ----- | 471    | -----  | 946    | 447    | -----  | 215     | -----  | 640E   |
| TOTAL     | 7,186  | 11,976  | 10,005 | 4,629 | 7,377  | 12,185 | 41,533 | 24,587 | 45,637 | 21,798  | 5,736  | 10,245 |
| MEAN      | 232    | 413     | 323    | 154   | 238    | 406    | 1,340  | 793    | 1,521  | 703     | 191    | 330    |
| MAX       | 694    | 800     | 1,200  | 255   | 1,210  | 763    | 1,860  | 1,270  | 3,920  | 1,860   | 370    | 760    |
| MIN       | 96     | 116     | 87     | 121   | 117    | 194    | 718    | 371    | 409    | 152     | 141    | 160    |
| AC-FT     | 14,250 | 23,750  | 19,840 | 9,180 | 14,630 | 24,170 | 82,380 | 48,770 | 90,520 | 43,240  | 11,380 | 20,320 |
| YEAR 1996 | TOTAL  | 202,894 | MEAN   | 554   | MAX    | 3,920  | MIN    | 87     | AC-FT  | 402,400 |        |        |

## PLATTE RIVER BASIN

## THIRTY MILE CANAL from Platte River, 00141000 - 1996

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

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

PERIOD OF RECORD.--1928 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB | MAR | APR | MAY   | JUN    | JUL    | AUG    | SEP  | OCT | NOV | DEC |
|-----------|-----|-----|-----|-----|-------|--------|--------|--------|------|-----|-----|-----|
| 1         |     |     |     | 0   | 0     | 73     | 238    | 262    | 85   | 0   |     |     |
| 2         |     |     |     | 0   | 0     | 73     | 251    | 258    | 82   | 0   |     |     |
| 3         |     |     |     | 0   | 0     | 74     | 265    | 252    | 27   | 0   |     |     |
| 4         |     |     |     | 0   | 0     | 75     | 275    | 248    | 0    | 0   |     |     |
| 5         |     |     |     | 0   | 0     | 75     | 298    | 247    | 0    | 0   |     |     |
| 6         |     |     |     | 0   | 0     | 75     | 309    | 29     | 0    | 0   |     |     |
| 7         |     |     |     | 0   | 0     | 75     | 310    | 254    | 0    | 0   |     |     |
| 8         |     |     |     | 0   | 0     | 75     | 309    | 253    | 0    | 0   |     |     |
| 9         |     |     |     | 0   | 0     | 90     | 306    | 250    | 0    | 0   |     |     |
| 10        |     |     |     | 0   | 0     | 98     | 305    | 250    | 0    | 0   |     |     |
| 11        |     |     |     | 0   | 0     | 99     | 307    | 246    | 0    | 0   |     |     |
| 12        |     |     |     | 0   | 0     | 100    | 301    | 246    | 0    | 0   |     |     |
| 13        |     |     |     | 0   | 0     | 100    | 293    | 250    | 0    | 0   |     |     |
| 14        |     |     |     | 0   | 0     | 100    | 291    | 253    | 0    | 0   |     |     |
| 15        |     |     |     | 0   | 0     | 101    | 290    | 249    | 0    | 0   |     |     |
| 16        |     |     |     | 0   | 0     | 100    | 285    | 222    | 0    | 0   |     |     |
| 17        |     |     |     | 0   | 0     | 100    | 289    | 211    | 0    | 0   |     |     |
| 18        |     |     |     | 0   | 0     | 100    | 297    | 200    | 0    | 0   |     |     |
| 19        |     |     |     | 0   | 0     | 101    | 296    | 179    | 0    | 0   |     |     |
| 20        |     |     |     | 0   | 0     | 101    | 297    | 169    | 0    | 0   |     |     |
| 21        |     |     |     | 0   | 48    | 102    | 297    | 167    | 0    | 0   |     |     |
| 22        |     |     |     | 0   | 74    | 102    | 291    | 148    | 0    | 0   |     |     |
| 23        |     |     |     | 0   | 73    | 101    | 276    | 140    | 0    | 0   |     |     |
| 24        |     |     |     | 0   | 76    | 101    | 275    | 140    | 0    | 0   |     |     |
| 25        |     |     |     | 0   | 75    | 102    | 257    | 140    | 0    | 0   |     |     |
| 26        |     |     |     | 0   | 75    | 119    | 245    | 140    | 0    | 0   |     |     |
| 27        |     |     |     | 0   | 77    | 142    | 245    | 141    | 0    | 0   |     |     |
| 28        |     |     |     | 0   | 79    | 150    | 236    | 138    | 0    | 0   |     |     |
| 29        |     |     |     | 0   | 76    | 167    | 235    | 137    | 0    | 0   |     |     |
| 30        |     |     |     | 0   | 75    | 194    | 243    | 103    | 0    | 0   |     |     |
| 31        |     |     |     | 0   | 74    | 256    | 256    | 86     | 0    | 0   |     |     |
| TOTAL     |     |     |     | 0   | 802   | 3,065  | 8,668  | 6,008  | 194  | 0   |     |     |
| MEAN      |     |     |     | 0   | 25.9  | 102    | 280    | 194    | 6.47 | 0   |     |     |
| MAX       |     |     |     | 0   | 79    | 194    | 310    | 262    | 85   | 0   |     |     |
| MIN       |     |     |     | 0   | 0     | 73     | 235    | 29     | 0    | 0   |     |     |
| AC-FT     |     |     |     | 0   | 1,590 | 6,080  | 17,190 | 11,920 | 385  | 0   |     |     |
| YEAR 1996 | MAX | 310 | MIN | 0   | AC-FT | 37,160 |        |        |      |     |     |     |

# PLATTE RIVER BASIN

**GOTHENBURG CANAL from Platte River, 00057000 - 1996**

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

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

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

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR    | MAY   | JUN    | JUL    | AUG    | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|--------|-------|--------|--------|--------|-------|-----|-------|-----|
| 1         |     |       |     | 0      | 34    | 93     | 263    | 324    | 128   | 0   |       |     |
| 2         |     |       |     | 0      | 34    | 92     | 298    | 328    | 125   | 0   |       |     |
| 3         |     |       |     | 0      | 34    | 94     | 326    | 327    | 95    | 0   |       |     |
| 4         |     |       |     | 0      | 32    | 97     | 323    | 317    | 55    | 0   |       |     |
| 5         |     |       |     | 0      | 37    | 99     | 324    | 307    | 15    | 0   |       |     |
| 6         |     |       |     | 0      | 109   | 99     | 335    | 303    | 4.8   | 0   |       |     |
| 7         |     |       |     | 0      | 108   | 96     | 331    | 258    | 4.6   | 0   |       |     |
| 8         |     |       |     | 0      | 89    | 97     | 341    | 256    | 2.6   | 0   |       |     |
| 9         |     |       |     | 0      | 42    | 99     | 343    | 256    | 0     | 0   |       |     |
| 10        |     |       |     | 0      | 47    | 101    | 340    | 255    | 0     | 0   |       |     |
| 11        |     |       |     | 0      | 51    | 97     | 335    | 257    | 0     | 0   |       |     |
| 12        |     |       |     | 0      | 51    | 93     | 327    | 257    | 0     | 0   |       |     |
| 13        |     |       |     | 0      | 51    | 93     | 327    | 256    | 0     | 0   |       |     |
| 14        |     |       |     | 0      | 51    | 94     | 328    | 254    | 0     | 0   |       |     |
| 15        |     |       |     | 0      | 51    | 94     | 326    | 253    | 0     | 0   |       |     |
| 16        |     |       |     | 0      | 55    | 94     | 321    | 233    | 0     | 0   |       |     |
| 17        |     |       |     | 0      | 80    | 95     | 320    | 208    | 0     | 0   |       |     |
| 18        |     |       |     | 0      | 77    | 95     | 326    | 202    | 0     | 0   |       |     |
| 19        |     |       |     | 0      | 77    | 95     | 333    | 178    | 0     | 0   |       |     |
| 20        |     |       |     | 0      | 86    | 96     | 332    | 147    | 0     | 0   |       |     |
| 21        |     |       |     | 0      | 91    | 96     | 322    | 149    | 0     | 0   |       |     |
| 22        |     |       |     | .08    | 94    | 96     | 324    | 147    | 0     | 0   |       |     |
| 23        |     |       |     | 42     | 95    | 95     | 327    | 147    | 0     | 0   |       |     |
| 24        |     |       |     | 68     | 95    | 96     | 325    | 149    | 0     | 0   |       |     |
| 25        |     |       |     | 56     | 95    | 103    | 326    | 154    | 0     | 0   |       |     |
| 26        |     |       |     | 34     | 99    | 148    | 326    | 164    | 0     | 0   |       |     |
| 27        |     |       |     | 35     | 94    | 200    | 329    | 165    | 0     | 0   |       |     |
| 28        |     |       |     | 36     | 93    | 202    | 329    | 171    | 0     | 0   |       |     |
| 29        |     |       |     | 35     | 90    | 203    | 327    | 175    | 0     | 0   |       |     |
| 30        |     | ----- |     | 34     | 91    | 244    | 327    | 165    | 0     | 0   |       |     |
| 31        |     | ----- |     | -----  | 93    | -----  | 326    | 143    | ----- | 0   | ----- |     |
| TOTAL     |     |       |     | 340.08 | 2,226 | 3,396  | 10,087 | 6,905  | 430.0 | 0   |       |     |
| MEAN      |     |       |     | 11.3   | 71.8  | 113    | 325    | 223    | 14.3  | 0   |       |     |
| MAX       |     |       |     | 68     | 109   | 244    | 343    | 328    | 128   | 0   |       |     |
| MIN       |     |       |     | 0      | 32    | 92     | 263    | 143    | 0     | 0   |       |     |
| AC-FT     |     |       |     | 675    | 4,420 | 6,740  | 20,010 | 13,700 | 853   | 0   |       |     |
| YEAR 1996 | MAX | 343   | MIN | 0      | AC-FT | 46,380 |        |        |       |     |       |     |



# PLATTE RIVER BASIN

**BUFFALO CREEK (B-1) RESERVOIR SUPPLY CANAL from Platte River, 00019500 - 1996**

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1983, 1985 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

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

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No water diverted in 1996.

# PLATTE RIVER BASIN

**SIX MILE CANAL from Platte River, 00134000 - 1996**

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

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

PERIOD OF RECORD.--1919, 1922 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB | MAR | APR | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV | DEC |
|-----------|-----|-----|-----|-----|-------|-------|-------|-------|-------|-----|-----|-----|
| 1         |     |     |     | 0   | 0     | 0     | 24    | 12    | 4.5   | 0   |     |     |
| 2         |     |     |     | 0   | 0     | 0     | 27    | 13    | 4.6   | 0   |     |     |
| 3         |     |     |     | 0   | 0     | 0     | 27    | 13    | 4.9   | 0   |     |     |
| 4         |     |     |     | 0   | 0     | 0     | 26    | 12    | 3.9   | 0   |     |     |
| 5         |     |     |     | 0   | 0     | 0     | 25    | 12    | .29   | 0   |     |     |
| 6         |     |     |     | 0   | 0     | 0     | 23    | 12    | .23   | 0   |     |     |
| 7         |     |     |     | 0   | 0     | 0     | 23    | 11    | .26   | 0   |     |     |
| 8         |     |     |     | 0   | 0     | 0     | 24    | 11    | .64   | 0   |     |     |
| 9         |     |     |     | 0   | 0     | 0     | 19    | 11    | .17   | 0   |     |     |
| 10        |     |     |     | 0   | 0     | 0     | 15    | 13    | 0     | 0   |     |     |
| 11        |     |     |     | 0   | 0     | 0     | 14    | 16    | 0     | 0   |     |     |
| 12        |     |     |     | 0   | 0     | 0     | 15    | 17    | 0     | 0   |     |     |
| 13        |     |     |     | 0   | 0     | 0     | 14    | 19    | 0     | 0   |     |     |
| 14        |     |     |     | 0   | 0     | 0     | 15    | 18    | 0     | 0   |     |     |
| 15        |     |     |     | 0   | 0     | 0     | 16    | 16    | 0     | 0   |     |     |
| 16        |     |     |     | 0   | 0     | 0     | 16    | 13    | 0     | 0   |     |     |
| 17        |     |     |     | 0   | 0     | 0     | 16    | 13    | 0     | 0   |     |     |
| 18        |     |     |     | 0   | 0     | 0     | 16    | 10    | 0     | 0   |     |     |
| 19        |     |     |     | 0   | 0     | 0     | 16    | 9.5   | 0     | 0   |     |     |
| 20        |     |     |     | 0   | 0     | 0     | 16    | 9.6   | 0     | 0   |     |     |
| 21        |     |     |     | 0   | 0     | 0     | 18    | 9.3   | 0     | 0   |     |     |
| 22        |     |     |     | 0   | 0     | 0     | 17    | 7.4   | 0     | 0   |     |     |
| 23        |     |     |     | 0   | 0     | 0     | 16    | 6.5   | 0     | 0   |     |     |
| 24        |     |     |     | 0   | 0     | 0     | 16    | 5.8   | 0     | 0   |     |     |
| 25        |     |     |     | 0   | 0     | 0     | 14    | 5.4   | 0     | 0   |     |     |
| 26        |     |     |     | 0   | 0     | 3.2   | 12    | 5.1   | 0     | 0   |     |     |
| 27        |     |     |     | 0   | 0     | 9.3   | 12    | 4.9   | 0     | 0   |     |     |
| 28        |     |     |     | 0   | 0     | 13    | 12    | 5.1   | 0     | 0   |     |     |
| 29        |     |     |     | 0   | 0     | 17    | 12    | 5.2   | 0     | 0   |     |     |
| 30        |     |     |     | 0   | 0     | 19    | 11    | 5.2   | 0     | 0   |     |     |
| 31        |     |     |     | 0   | 0     | 0     | 11    | 4.9   | 0     | 0   |     |     |
| TOTAL     |     |     |     | 0   | 0     | 61.5  | 538   | 324.9 | 19.51 | 0   |     |     |
| MEAN      |     |     |     | 0   | 0     | 2.05  | 17.4  | 10.5  | .65   | 0   |     |     |
| MAX       |     |     |     | 0   | 0     | 19    | 27    | 19    | 4.9   | 0   |     |     |
| MIN       |     |     |     | 0   | 0     | 0     | 11    | 4.9   | 0     | 0   |     |     |
| AC-FT     |     |     |     | 0   | 0     | 122   | 1,070 | 644   | 39    | 0   |     |     |
| YEAR 1996 | MAX | 27  | MIN | 0   | AC-FT | 1,870 |       |       |       |     |     |     |

## PLATTE RIVER BASIN

## COZAD CANAL from Platte River, 00033000 - 1996

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

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

PERIOD OF RECORD.--1918 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN     | JUL    | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|---------|--------|-------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 0     | 51      | 206    | 234   | 44    | 0   |       |     |
| 2         |     |       |     | 0     | 0     | 50      | 248    | 228   | 0     | 0   |       |     |
| 3         |     |       |     | 0     | 0     | 21      | 259    | 233   | 0     | 0   |       |     |
| 4         |     |       |     | 0     | 0     | 3.2     | 266    | 224   | 0     | 0   |       |     |
| 5         |     |       |     | 0     | 0     | 19      | 267    | 215   | 0     | 0   |       |     |
| 6         |     |       |     | 0     | 0     | 19      | 271    | 206   | 0     | 0   |       |     |
| 7         |     |       |     | 0     | 0     | 50      | 267    | 180   | 0     | 0   |       |     |
| 8         |     |       |     | 0     | 0     | 52      | 266    | 153   | 2.9   | 0   |       |     |
| 9         |     |       |     | 0     | 0     | 51      | 252    | 147   | 5.4   | 0   |       |     |
| 10        |     |       |     | 0     | 0     | 51      | 248    | 148   | 0     | 0   |       |     |
| 11        |     |       |     | 0     | 0     | 46      | 245    | 147   | 0     | 0   |       |     |
| 12        |     |       |     | 0     | 0     | 46      | 245    | 147   | 0     | 0   |       |     |
| 13        |     |       |     | 0     | 0     | 50      | 243    | 147   | 0     | 0   |       |     |
| 14        |     |       |     | 0     | 0     | 68      | 239    | 148   | 0     | 0   |       |     |
| 15        |     |       |     | 0     | 0     | 79      | 239    | 147   | 0     | 0   |       |     |
| 16        |     |       |     | 0     | 0     | 79      | 237    | 131   | 0     | 0   |       |     |
| 17        |     |       |     | 0     | 0     | 78      | 241    | 122   | 0     | 0   |       |     |
| 18        |     |       |     | 0     | 0     | 74      | 247    | 121   | 0     | 0   |       |     |
| 19        |     |       |     | 0     | 0     | 76      | 250    | 107   | 0     | 0   |       |     |
| 20        |     |       |     | 0     | 29    | 79      | 260    | 99    | 0     | 0   |       |     |
| 21        |     |       |     | 0     | 38    | 63      | 257    | 99    | 0     | 0   |       |     |
| 22        |     |       |     | 0     | 38    | 79      | 250    | 98    | 0     | 0   |       |     |
| 23        |     |       |     | 0     | 37    | 79      | 240    | 99    | 0     | 0   |       |     |
| 24        |     |       |     | 0     | 36    | 76      | 239    | 98    | 0     | 0   |       |     |
| 25        |     |       |     | 0     | 36    | 87      | 239    | 100   | 0     | 0   |       |     |
| 26        |     |       |     | 0     | 36    | 104     | 241    | 100   | 0     | 0   |       |     |
| 27        |     |       |     | 0     | 37    | 110     | 224    | 106   | 0     | 0   |       |     |
| 28        |     |       |     | 0     | 47    | 107     | 219    | 110   | 0     | 0   |       |     |
| 29        |     |       |     | 0     | 50    | 106     | 220    | 109   | 0     | 0   |       |     |
| 30        |     | ----- |     | 0     | 50    | 138     | 239    | 108   | 0     | 0   |       |     |
| 31        |     | ----- |     | ----- | 51    | -----   | 238    | 108   | ----- | 0   | ----- |     |
| TOTAL     |     |       |     | 0     | 485   | 1,991.2 | 7,602  | 4,419 | 52.3  | 0   |       |     |
| MEAN      |     |       |     | 0     | 15.6  | 66.4    | 245    | 143   | 1.74  | 0   |       |     |
| MAX       |     |       |     | 0     | 51    | 138     | 271    | 234   | 44    | 0   |       |     |
| MIN       |     |       |     | 0     | 0     | 3.2     | 206    | 98    | 0     | 0   |       |     |
| AC-FT     |     |       |     | 0     | 962   | 3,950   | 15,080 | 8,770 | 104   | 0   |       |     |
| YEAR 1996 | MAX | 271   | MIN | 0     | AC-FT | 28,860  |        |       |       |     |       |     |

# PLATTE RIVER BASIN

**ORCHARD ALFALFA CANAL from Platte River, 00117000 - 1996**

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

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

PERIOD OF RECORD.--1918 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 0     | 15    | 40    | 50    | 30    | 0   |       |     |
| 2         |     |       |     | 0     | 0     | 20    | 47    | 50    | 29    | 0   |       |     |
| 3         |     |       |     | 0     | 0     | 19    | 61    | 49    | 28    | 0   |       |     |
| 4         |     |       |     | 0     | 0     | 18    | 62    | 55    | 29    | 0   |       |     |
| 5         |     |       |     | 0     | 0     | 15    | 66    | 54    | 29    | 0   |       |     |
| 6         |     |       |     | 0     | 0     | 17    | 70    | 50    | 19    | 0   |       |     |
| 7         |     |       |     | 0     | 0     | 19    | 70    | 49    | 14    | 0   |       |     |
| 8         |     |       |     | 0     | 0     | 19    | 77    | 49    | 17    | 0   |       |     |
| 9         |     |       |     | 0     | 0     | 18    | 80    | 51    | 19    | 0   |       |     |
| 10        |     |       |     | 0     | 0     | 18    | 75    | 50    | 17    | 0   |       |     |
| 11        |     |       |     | 0     | 0     | 17    | 70    | 49    | 14    | 0   |       |     |
| 12        |     |       |     | 0     | 0     | 16    | 70    | 42    | 15    | 0   |       |     |
| 13        |     |       |     | 0     | 0     | 17    | 67    | 38    | 14    | 0   |       |     |
| 14        |     |       |     | 0     | 0     | 20    | 66    | 39    | 13    | 0   |       |     |
| 15        |     |       |     | 0     | 0     | 22    | 66    | 38    | 12    | 0   |       |     |
| 16        |     |       |     | 0     | 0     | 23    | 70    | 38    | 7.2   | 0   |       |     |
| 17        |     |       |     | 0     | 0     | 21    | 72    | 20    | 2.5   | 0   |       |     |
| 18        |     |       |     | 0     | 0     | 17    | 72    | 23    | 1.7   | 0   |       |     |
| 19        |     |       |     | 0     | 0     | 16    | 72    | 24    | 2.9   | 0   |       |     |
| 20        |     |       |     | 0     | 0     | 16    | 69    | 22    | 0     | 0   |       |     |
| 21        |     |       |     | 0     | 0     | 16    | 72    | 22    | 0     | 0   |       |     |
| 22        |     |       |     | 0     | 0     | 15    | 70    | 24    | 0     | 0   |       |     |
| 23        |     |       |     | 0     | 0     | 15    | 60    | 22    | 0     | 0   |       |     |
| 24        |     |       |     | 0     | 0     | 17    | 50    | 28    | 0     | 0   |       |     |
| 25        |     |       |     | 0     | 9.9   | 20    | 43    | 30    | 0     | 0   |       |     |
| 26        |     |       |     | 0     | 17    | 23    | 41    | 28    | 0     | 0   |       |     |
| 27        |     |       |     | 0     | 17    | 26    | 41    | 32    | 0     | 0   |       |     |
| 28        |     |       |     | 0     | 16    | 28    | 41    | 38    | 0     | 0   |       |     |
| 29        |     |       |     | 0     | 14    | 33    | 42    | 42    | 0     | 0   |       |     |
| 30        |     | ----- |     | 0     | 14    | 37    | 51    | 39    | 0     | 0   |       |     |
| 31        |     | ----- |     | ----- | 15    | ----- | 55    | 28    | ----- | 0   | ----- |     |
| TOTAL     |     |       |     | 0     | 102.9 | 593   | 1,908 | 1,173 | 313.3 | 0   |       |     |
| MEAN      |     |       |     | 0     | 3.32  | 19.8  | 61.5  | 37.8  | 10.4  | 0   |       |     |
| MAX       |     |       |     | 0     | 17    | 37    | 80    | 55    | 30    | 0   |       |     |
| MIN       |     |       |     | 0     | 0     | 15    | 40    | 20    | 0     | 0   |       |     |
| AC-FT     |     |       |     | 0     | 204   | 1,180 | 3,780 | 2,330 | 621   | 0   |       |     |
| YEAR 1996 | MAX | 80    | MIN | 0     | AC-FT | 8,110 |       |       |       |     |       |     |

## PLATTE RIVER BASIN

DAWSON COUNTY CANAL from Platte River, 00037000 - 1996

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

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

PERIOD OF RECORD.--1918 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY     | JUN    | JUL    | AUG    | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|---------|--------|--------|--------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 0       | 128    | 164    | 354    | 342   | 0   |       |     |
| 2         |     |       |     | 0     | 0       | 128    | 161    | 355    | 351   | 0   |       |     |
| 3         |     |       |     | 0     | 0       | 127    | 315    | 334    | 332   | 0   |       |     |
| 4         |     |       |     | 0     | 0       | 130    | 430    | 316    | 286   | 0   |       |     |
| 5         |     |       |     | 0     | 0       | 130    | 508    | 297    | 271   | 0   |       |     |
| 6         |     |       |     | 0     | 32      | 130    | 515    | 284    | 271   | 0   |       |     |
| 7         |     |       |     | 0     | 80      | 130    | 511    | 283    | 271   | 0   |       |     |
| 8         |     |       |     | 0     | 81      | 130    | 517    | 285    | 272   | 0   |       |     |
| 9         |     |       |     | 0     | 45      | 130    | 515    | 285    | 205   | 0   |       |     |
| 10        |     |       |     | 0     | 7.9     | 132    | 522    | 286    | 149   | 0   |       |     |
| 11        |     |       |     | 0     | 39      | 133    | 513    | 286    | 90    | 0   |       |     |
| 12        |     |       |     | 0     | 80      | 134    | 492    | 286    | 0     | 0   |       |     |
| 13        |     |       |     | 0     | 79      | 134    | 490    | 286    | 0     | 0   |       |     |
| 14        |     |       |     | 0     | 92      | 137    | 499    | 302    | 0     | 0   |       |     |
| 15        |     |       |     | 0     | 98      | 138    | 491    | 330    | 0     | 0   |       |     |
| 16        |     |       |     | 0     | 100     | 142    | 492    | 302    | 0     | 0   |       |     |
| 17        |     |       |     | 0     | 96      | 141    | 491    | 275    | 0     | 0   |       |     |
| 18        |     |       |     | 0     | 93      | 140    | 479    | 275    | 0     | 0   |       |     |
| 19        |     |       |     | 0     | 94      | 135    | 488    | 272    | 0     | 0   |       |     |
| 20        |     |       |     | 0     | 97      | 136    | 475    | 273    | 0     | 0   |       |     |
| 21        |     |       |     | 0     | 101     | 135    | 467    | 276    | 0     | 0   |       |     |
| 22        |     |       |     | 0     | 120     | 135    | 462    | 276    | 0     | 0   |       |     |
| 23        |     |       |     | 0     | 128     | 131    | 465    | 276    | 0     | 0   |       |     |
| 24        |     |       |     | 0     | 127     | 130    | 450    | 278    | 0     | 0   |       |     |
| 25        |     |       |     | 0     | 127     | 155    | 426    | 278    | 0     | 0   |       |     |
| 26        |     |       |     | 0     | 127     | 170    | 416    | 277    | 0     | 0   |       |     |
| 27        |     |       |     | 0     | 130     | 173    | 418    | 301    | 0     | 0   |       |     |
| 28        |     |       |     | 0     | 126     | 169    | 419    | 351    | 0     | 0   |       |     |
| 29        |     |       |     | 0     | 125     | 168    | 381    | 352    | 0     | 0   |       |     |
| 30        |     | ----- |     | 0     | 127     | 168    | 349    | 354    | 0     | 0   |       |     |
| 31        |     | ----- |     | ----- | 131     | -----  | 355    | 351    | ----- | 0   | ----- |     |
| TOTAL     |     |       |     | 0     | 2,482.9 | 4,199  | 13,666 | 9,336  | 2,840 | 0   |       |     |
| MEAN      |     |       |     | 0     | 80.1    | 140    | 441    | 301    | 94.7  | 0   |       |     |
| MAX       |     |       |     | 0     | 131     | 173    | 522    | 355    | 351   | 0   |       |     |
| MIN       |     |       |     | 0     | 0       | 127    | 161    | 272    | 0     | 0   |       |     |
| AC-FT     |     |       |     | 0     | 4,920   | 8,330  | 27,110 | 18,520 | 5,630 | 0   |       |     |
| YEAR 1996 | MAX | 522   | MIN | 0     | AC-FT   | 64,510 |        |        |       |     |       |     |

# PLATTE RIVER BASIN

**PLATTE RIVER near Cozad, 06766500 - 1996**

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

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

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

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

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

E indicates estimated daily discharge. Estimated records January 17-February 2, September 11-24, November 16-18, November 24-December 3, December 15-31. Records fair, except estimated records 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 4,500 cubic feet per second September 22, combined channel flow (South Channel estimated); minimum daily discharge 16 cubic feet per second July 2, combined channel flow.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT     | NOV    | DEC    |
|-----------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1         | 262    | 410E    | 473    | 304    | 200    | 501    | 24     | 137    | 78     | 2,340   | 372    | 480E   |
| 2         | 213    | 460E    | 633    | 298    | 194    | 547    | 16     | 294    | 82     | 2,190   | 365    | 440E   |
| 3         | 196    | 543     | 543    | 294    | 189    | 430    | 66     | 269    | 116    | 2,130   | 353    | 380E   |
| 4         | 211    | 674     | 694    | 271    | 186    | 270    | 149    | 289    | 276    | 2,080   | 350    | 342    |
| 5         | 205    | 751     | 897    | 262    | 180    | 223    | 214    | 205    | 286    | 2,060   | 335    | 305    |
| 6         | 199    | 658     | 741    | 259    | 111    | 172    | 180    | 244    | 299    | 1,990   | 312    | 324    |
| 7         | 204    | 928     | 490    | 261    | 54     | 198    | 160    | 209    | 371    | 1,900   | 300    | 304    |
| 8         | 334    | 726     | 442    | 260    | 65     | 198    | 213    | 175    | 793    | 1,850   | 281    | 289    |
| 9         | 551    | 761     | 1,200  | 252    | 151    | 147    | 412    | 101    | 1,050  | 1,840   | 275    | 292    |
| 10        | 543    | 879     | 1,760  | 259    | 182    | 73     | 420    | 115    | 907    | 1,790   | 272    | 290    |
| 11        | 381    | 691     | 1,400  | 266    | 108    | 40     | 280    | 136    | 840E   | 1,420   | 276    | 287    |
| 12        | 332    | 588     | 728    | 265    | 95     | 27     | 467    | 102    | 820E   | 1,140   | 274    | 285    |
| 13        | 330    | 865     | 536    | 266    | 100    | 31     | 300    | 86     | 740E   | 949     | 273    | 285    |
| 14        | 337    | 1,350   | 433    | 281    | 82     | 108    | 280    | 95     | 680E   | 705     | 275    | 286    |
| 15        | 306    | 1,240   | 373    | 318    | 65     | 157    | 243    | 119    | 680E   | 589     | 294    | 230E   |
| 16        | 338    | 992     | 352    | 344    | 68     | 224    | 252    | 372    | 820E   | 527     | 320E   | 185E   |
| 17        | 260E   | 903     | 342    | 349    | 53     | 460    | 266    | 575    | 920E   | 449     | 250E   | 160E   |
| 18        | 210E   | 982     | 339    | 321    | 39     | 399    | 180    | 764    | 1,060E | 405     | 270E   | 120E   |
| 19        | 165E   | 892     | 342    | 245    | 33     | 188    | 127    | 705    | 1,720E | 375     | 343    | 160E   |
| 20        | 210E   | 780     | 334    | 223    | 17     | 126    | 116    | 775    | 2,500E | 356     | 350    | 175E   |
| 21        | 260E   | 704     | 325    | 235    | 19     | 118    | 394    | 717    | 3,000E | 337     | 380    | 480E   |
| 22        | 300E   | 566     | 322    | 235    | 52     | 73     | 335    | 680    | 4,100E | 329     | 404    | 900E   |
| 23        | 300E   | 384     | 320    | 227    | 89     | 125    | 226    | 507    | 3,800E | 331     | 398    | 940E   |
| 24        | 330E   | 325     | 299    | 202    | 115    | 152    | 226    | 299    | 3,600E | 331     | 280E   | 740E   |
| 25        | 350E   | 301     | 168    | 186    | 118    | 101    | 227    | 192    | 3,330  | 331     | 220E   | 600E   |
| 26        | 340E   | 282     | 286    | 207    | 152    | 105    | 187    | 143    | 3,490  | 332     | 280E   | 560E   |
| 27        | 310E   | 246     | 345    | 190    | 312    | 67     | 173    | 88     | 3,140  | 331     | 300E   | 640E   |
| 28        | 270E   | 207     | 368    | 207    | 1,050  | 62     | 209    | 62     | 2,910  | 330     | 350E   | 620E   |
| 29        | 210E   | 249     | 381    | 224    | 1,190  | 120    | 247    | 89     | 2,760  | 338     | 420E   | 760E   |
| 30        | 290E   | -----   | 350    | 210    | 720    | 96     | 142    | 185    | 2,560  | 356     | 500E   | 900E   |
| 31        | 330E   | -----   | 320    | -----  | 561    | -----  | 81     | 132    | -----  | 349     | -----  | 760E   |
| TOTAL     | 9,057  | 19,537  | 16,536 | 7,721  | 6,550  | 5,538  | 6,812  | 8,861  | 47,728 | 30,780  | 9,672  | 13,519 |
| MEAN      | 292    | 674     | 533    | 257    | 211    | 185    | 220    | 286    | 1,591  | 993     | 322    | 436    |
| MAX       | 543    | 1,350   | 1,760  | 349    | 1,190  | 547    | 467    | 775    | 4,100  | 2,340   | 500    | 940    |
| MIN       | 165    | 207     | 168    | 186    | 17     | 27     | 16     | 62     | 78     | 329     | 220    | 120    |
| AC-FT     | 17,960 | 38,750  | 32,800 | 15,310 | 12,990 | 10,980 | 13,510 | 17,580 | 94,670 | 61,050  | 19,180 | 26,810 |
| YEAR 1996 | TOTAL  | 182,311 | MEAN   | 498    | MAX    | 4,100  | MIN    | 16     | AC-FT  | 361,600 |        |        |

## PLATTE RIVER BASIN

## PLATTE RIVER near Overton, 06768000 - 1996

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

DRAINAGE AREA.--56,300 square miles, approximately 51,620 square miles contributes directly to surface runoff.

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

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

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

E indicates estimated daily discharge. Estimated records January 19-February 9, August 7, December 18-20, 23-26. Records good, except estimated records January and February poor, August and December fair.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 6,300 cubic feet per second September 23, gage height 4.35 feet; maximum gage height 5.32 feet January 19 due to backwater from ice; minimum daily discharge 411 cubic feet per second July 5.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR     | APR     | MAY    | JUN    | JUL    | AUG     | SEP     | OCT       | NOV     | DEC     |
|-----------|--------|---------|---------|---------|--------|--------|--------|---------|---------|-----------|---------|---------|
| 1         | 1,850  | 800E    | 1,790   | 1,660   | 862    | 2,550  | 927    | 1,740   | 1,240   | 4,350     | 1,760   | 2,190   |
| 2         | 1,810  | 600E    | 2,460   | 2,050   | 870    | 2,430  | 928    | 2,230   | 1,430   | 4,020     | 1,840   | 2,220   |
| 3         | 2,100  | 1,300E  | 1,910   | 2,120   | 887    | 2,320  | 601    | 2,650   | 1,500   | 3,800     | 1,930   | 2,210   |
| 4         | 2,080  | 1,350E  | 2,460   | 1,940   | 910    | 2,050  | 474    | 2,090   | 1,520   | 3,910     | 2,010   | 1,950   |
| 5         | 1,870  | 1,400E  | 2,780   | 1,970   | 972    | 1,600  | 411    | 2,000   | 1,690   | 3,940     | 2,030   | 2,110   |
| 6         | 1,640  | 1,600E  | 2,830   | 2,030   | 967    | 1,420  | 439    | 2,040   | 1,720   | 3,900     | 2,060   | 2,130   |
| 7         | 1,710  | 1,800E  | 2,610   | 2,030   | 898    | 1,460  | 415    | 2,050E  | 1,760   | 3,720     | 2,020   | 2,130   |
| 8         | 1,460  | 1,850E  | 2,420   | 1,950   | 827    | 1,380  | 600    | 2,060   | 1,890   | 3,600     | 2,030   | 2,060   |
| 9         | 1,130  | 2,200E  | 2,400   | 1,640   | 986    | 1,380  | 925    | 2,030   | 2,230   | 3,170     | 2,130   | 2,060   |
| 10        | 1,500  | 3,440   | 2,580   | 1,400   | 1,230  | 1,540  | 1,140  | 1,920   | 2,630   | 3,210     | 2,130   | 2,070   |
| 11        | 2,000  | 3,250   | 2,730   | 1,850   | 1,070  | 1,060  | 1,210  | 1,900   | 2,560   | 3,350     | 2,120   | 2,040   |
| 12        | 2,320  | 2,880   | 2,200   | 2,020   | 968    | 1,290  | 988    | 1,770   | 2,290   | 3,090     | 2,070   | 2,030   |
| 13        | 2,300  | 2,730   | 2,250   | 1,880   | 1,240  | 1,260  | 875    | 1,270   | 2,270   | 2,890     | 2,090   | 2,030   |
| 14        | 2,130  | 3,240   | 2,280   | 1,950   | 1,140  | 1,020  | 809    | 1,080   | 2,230   | 2,570     | 2,140   | 1,960   |
| 15        | 2,100  | 3,350   | 2,180   | 2,070   | 1,140  | 1,280  | 876    | 957     | 2,330   | 2,340     | 2,210   | 1,950   |
| 16        | 1,970  | 3,180   | 2,030   | 1,900   | 1,210  | 1,590  | 739    | 1,410   | 2,350   | 2,300     | 2,380   | 1,800   |
| 17        | 1,530  | 2,800   | 1,900   | 1,950   | 1,050  | 1,600  | 731    | 2,620   | 2,460   | 2,090     | 2,290   | 1,560   |
| 18        | 1,460  | 2,990   | 1,640   | 1,870   | 960    | 1,640  | 607    | 2,520   | 2,590   | 2,010     | 2,290   | 1,350E  |
| 19        | 1,350E | 3,000   | 1,370   | 1,810   | 677    | 1,530  | 565    | 2,480   | 3,130   | 1,820     | 2,220   | 1,800E  |
| 20        | 1,200E | 2,590   | 1,700   | 1,690   | 796    | 1,320  | 1,010  | 2,250   | 4,180   | 1,830     | 2,190   | 1,800E  |
| 21        | 1,250E | 2,790   | 2,130   | 1,640   | 827    | 1,260  | 1,210  | 2,130   | 4,940   | 1,780     | 2,160   | 1,870   |
| 22        | 1,250E | 2,610   | 2,090   | 1,630   | 754    | 1,220  | 1,540  | 2,010   | 5,210   | 1,510     | 2,230   | 1,880   |
| 23        | 1,300E | 2,440   | 2,010   | 1,770   | 788    | 1,380  | 1,270  | 1,940   | 5,970   | 1,230     | 2,280   | 1,850E  |
| 24        | 1,350E | 2,380   | 1,890   | 1,580   | 859    | 1,470  | 1,610  | 1,760   | 5,820   | 1,210     | 2,170   | 1,900E  |
| 25        | 1,450E | 2,300   | 1,680   | 1,280   | 850    | 1,440  | 1,260  | 1,620   | 5,090   | 1,170     | 2,150   | 1,950E  |
| 26        | 1,550E | 2,030   | 1,820   | 1,210   | 922    | 1,380  | 1,710  | 1,390   | 5,080   | 1,670     | 2,200   | 1,950E  |
| 27        | 1,500E | 2,160   | 1,930   | 1,160   | 2,520  | 1,080  | 1,720  | 1,050   | 5,310   | 1,220     | 2,210   | 1,950   |
| 28        | 1,600E | 1,140   | 1,860   | 1,130   | 2,760  | 1,160  | 1,750  | 808     | 5,090   | 991       | 2,210   | 1,960   |
| 29        | 900E   | 1,200   | 1,810   | 985     | 3,080  | 996    | 1,790  | 543     | 4,920   | 643       | 2,210   | 2,020   |
| 30        | 760E   | -----   | 1,770   | 1,000   | 2,850  | 900    | 1,540  | 562     | 4,680   | 808       | 2,210   | 2,080   |
| 31        | 740E   | -----   | 1,520   | -----   | 2,430  | -----  | 1,500  | 1,080   | -----   | 1,660     | -----   | 1,940   |
| TOTAL     | 49,160 | 65,400  | 65,030  | 51,165  | 38,320 | 44,006 | 32,190 | 53,960  | 96,110  | 75,802    | 63,970  | 60,840  |
| MEAN      | 1,586  | 2,255   | 2,098   | 1,706   | 1,236  | 1,467  | 1,038  | 1,741   | 3,204   | 2,445     | 2,132   | 1,963   |
| MAX       | 2,320  | 3,440   | 2,830   | 2,120   | 3,080  | 2,550  | 1,790  | 2,650   | 5,970   | 4,350     | 2,380   | 2,220   |
| MIN       | 740    | 600     | 1,370   | 985     | 677    | 900    | 411    | 543     | 1,240   | 643       | 1,760   | 1,350   |
| AC-FT     | 97,510 | 129,700 | 129,000 | 101,500 | 76,010 | 87,290 | 63,850 | 107,000 | 190,600 | 150,400   | 126,900 | 120,700 |
| YEAR 1996 | TOTAL  | 695,953 | MEAN    | 1,902   | MAX    | 5,970  | MIN    | 411     | AC-FT   | 1,380,000 |         |         |

# PLATTE RIVER BASIN

**KEARNEY CANAL from Platte River, 00073000 - 1996**

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

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

PERIOD.--1919, 1921 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL    | AUG    | SEP    | OCT    | NOV     | DEC |
|-----------|-----|-------|-----|-------|-------|--------|--------|--------|--------|--------|---------|-----|
| 1         |     |       |     | 0     | 0     | 78     | 191    | 209    | 155    | 305    | 248     | 0   |
| 2         |     |       |     | 0     | 0     | 77     | 192    | 208    | 158    | 275    | 209     | 0   |
| 3         |     |       |     | 0     | 0     | 77     | 182    | 218    | 159    | 209    | 226     | 0   |
| 4         |     |       |     | 0     | 0     | 73     | 145    | 211    | 158    | 204    | 269     | 0   |
| 5         |     |       |     | 0     | 0     | 70     | 125    | 206    | 161    | 201    | 270     | 0   |
| 6         |     |       |     | 0     | 0     | 70     | 157    | 200    | 164    | 202    | 266     | 0   |
| 7         |     |       |     | 0     | 82    | 121    | 182    | 200    | 163    | 246    | 264     | 0   |
| 8         |     |       |     | 0     | 125   | 234    | 188    | 201    | 164    | 307    | 250     | 0   |
| 9         |     |       |     | 0     | 129   | 234    | 193    | 200    | 166    | 297    | 228     | 0   |
| 10        |     |       |     | 0     | 131   | 246    | 206    | 195    | 167    | 288    | 226     | 0   |
| 11        |     |       |     | 0     | 128   | 204    | 206    | 191    | 165    | 295    | 239     | 0   |
| 12        |     |       |     | 0     | 126   | 223    | 203    | 189    | 154    | 289    | 262     | 0   |
| 13        |     |       |     | 0     | 127   | 224    | 199    | 180    | 150    | 248    | 260     | 0   |
| 14        |     |       |     | 0     | 127   | 201    | 195    | 173    | 149    | 215    | 260     | 0   |
| 15        |     |       |     | 0     | 122   | 229    | 196    | 166    | 149    | 164    | 260     | 0   |
| 16        |     |       |     | 0     | 122   | 269    | 194    | 165    | 149    | 158    | 263     | 0   |
| 17        |     |       |     | 0     | 121   | 258    | 189    | 182    | 149    | 152    | 272     | 0   |
| 18        |     |       |     | 0     | 120   | 248    | 188    | 185    | 148    | 149    | 256     | 0   |
| 19        |     |       |     | 0     | 111   | 251    | 184    | 185    | 151    | 192    | 256     | 0   |
| 20        |     |       |     | 0     | 112   | 245    | 195    | 183    | 154    | 265    | 257     | 0   |
| 21        |     |       |     | 0     | 112   | 240    | 201    | 181    | 154    | 270    | 258     | 0   |
| 22        |     |       |     | 0     | 108   | 232    | 211    | 180    | 246    | 269    | 245     | 0   |
| 23        |     |       |     | 0     | 105   | 256    | 209    | 179    | 295    | 287    | 141     | 0   |
| 24        |     |       |     | 0     | 109   | 250    | 216    | 177    | 280    | 288    | 28      | 0   |
| 25        |     |       |     | 0     | 110   | 240    | 211    | 175    | 268    | 284    | 18      | 0   |
| 26        |     |       |     | 0     | 116   | 229    | 215    | 172    | 319    | 257    | 13      | 0   |
| 27        |     |       |     | 0     | 101   | 207    | 213    | 167    | 364    | 231    | 15      | 0   |
| 28        |     |       |     | 0     | 85    | 189    | 212    | 160    | 313    | 258    | 12      | 0   |
| 29        |     |       |     | 0     | 84    | 183    | 215    | 150    | 313    | 225    | 9.6     | 0   |
| 30        |     | ----- |     | 0     | 82    | 187    | 208    | 143    | 312    | 288    | 2.5     | 0   |
| 31        |     | ----- |     | ----- | 79    | -----  | 206    | 149    | -----  | 285    | -----   | 0   |
| TOTAL     |     |       |     | 0     | 2,774 | 5,845  | 6,027  | 5,680  | 5,997  | 7,603  | 5,783.1 | 0   |
| MEAN      |     |       |     | 0     | 89.5  | 195    | 194    | 183    | 200    | 245    | 193     | 0   |
| MAX       |     |       |     | 0     | 131   | 269    | 216    | 218    | 364    | 307    | 272     | 0   |
| MIN       |     |       |     | 0     | 0     | 70     | 125    | 143    | 148    | 149    | 2.5     | 0   |
| AC-FT     |     |       |     | 0     | 5,500 | 11,590 | 11,950 | 11,270 | 11,900 | 15,080 | 11,470  | 0   |
| YEAR 1996 | MAX | 364   | MIN | 0     | AC-FT | 78,760 |        |        |        |        |         |     |



## PLATTE RIVER BASIN

KEARNEY POWER RETURN to Platte River, 00075000 - 1996

LOCATION.--NE1/4NE1/4 Sec. 3-8-16 W. at Kearney

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1939 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY     | JUN    | JUL   | AUG   | SEP   | OCT    | NOV   | DEC |
|-----------|-----|-------|-----|-------|---------|--------|-------|-------|-------|--------|-------|-----|
| 1         |     |       |     |       | 0       | 82     | 167   | 129   | 77    | 175    | 244   |     |
| 2         |     |       |     |       | 0       | 75     | 168   | 129   | 80    | 174    | 141   |     |
| 3         |     |       |     |       | 0       | 72     | 167   | 132   | 79    | 120    | 135   |     |
| 4         |     |       |     |       | 0       | 70     | 131   | 132   | 73    | 100    | 223   |     |
| 5         |     |       |     |       | 0       | 62     | 96    | 128   | 66    | 98     | 236   |     |
| 6         |     |       |     |       | 0       | 58     | 89    | 123   | 73    | 92     | 235   |     |
| 7         |     |       |     |       | 0       | 71     | 144   | 126   | 94    | 115    | 77    |     |
| 8         |     |       |     |       | 3.7     | 169    | 156   | 119   | 101   | 234    | 0     |     |
| 9         |     |       |     |       | 77      | 214    | 151   | 119   | 97    | 261    | 0     |     |
| 10        |     |       |     |       | 58      | 220    | 161   | 118   | 92    | 242    | 0     |     |
| 11        |     |       |     |       | 60      | 201    | 166   | 117   | 96    | 245    | 0     |     |
| 12        |     |       |     |       | 64      | 187    | 161   | 113   | 92    | 267    | 0     |     |
| 13        |     |       |     |       | 62      | 189    | 147   | 101   | 85    | 225    | 0     |     |
| 14        |     |       |     |       | 89      | 183    | 141   | 91    | 85    | 164    | 0     |     |
| 15        |     |       |     |       | 109     | 240    | 125   | 84    | 89    | 35     | 0     |     |
| 16        |     |       |     |       | 116     | 205    | 115   | 91    | 89    | 100    | 0     |     |
| 17        |     |       |     |       | 111     | 135    | 113   | 99    | 87    | 125    | 0     |     |
| 18        |     |       |     |       | 110     | 122    | 99    | 109   | 91    | 123    | 0     |     |
| 19        |     |       |     |       | 108     | 119    | 101   | 105   | 118   | 132    | 0     |     |
| 20        |     |       |     |       | 96      | 116    | 111   | 98    | 93    | 217    | 0     |     |
| 21        |     |       |     |       | 96      | 116    | 125   | 91    | 84    | 237    | 0     |     |
| 22        |     |       |     |       | 94      | 117    | 134   | 90    | 157   | 237    | 0     |     |
| 23        |     |       |     |       | 91      | 125    | 141   | 87    | 265   | 244    | 0     |     |
| 24        |     |       |     |       | 93      | 117    | 143   | 89    | 246   | 222    | 0     |     |
| 25        |     |       |     |       | 113     | 112    | 149   | 91    | 242   | 170    | 0     |     |
| 26        |     |       |     |       | 171     | 111    | 148   | 93    | 242   | 202    | 0     |     |
| 27        |     |       |     |       | 175     | 109    | 146   | 85    | 229   | 167    | 0     |     |
| 28        |     |       |     |       | 92      | 82     | 142   | 78    | 119   | 185    | 0     |     |
| 29        |     |       |     |       | 82      | 88     | 161   | 73    | 178   | 190    | 0     |     |
| 30        |     | ----- |     |       | 78      | 85     | 122   | 63    | 178   | 258    | 0     |     |
| 31        |     | ----- |     | ----- | 88      | -----  | 127   | 68    | ----- | 273    | ----- |     |
| TOTAL     |     |       |     |       | 2,236.7 | 3,852  | 4,251 | 3,171 | 3,697 | 5,629  | 1,291 |     |
| MEAN      |     |       |     |       | 72.2    | 128    | 137   | 102   | 123   | 182    | 43.0  |     |
| MAX       |     |       |     |       | 175     | 240    | 168   | 132   | 265   | 273    | 244   |     |
| MIN       |     |       |     |       | 0       | 58     | 89    | 63    | 66    | 35     | 0     |     |
| AC-FT     |     |       |     |       | 4,440   | 7,640  | 8,430 | 6,290 | 7,330 | 11,170 | 2,560 |     |
| YEAR 1996 | MAX | 273   | MIN | 0     | AC-FT   | 47,860 |       |       |       |        |       |     |

# PLATTE RIVER BASIN

## PLATTE RIVER near Odessa, 06770000 - 1996

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

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

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

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

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

E indicates estimated daily discharge. Estimated daily discharge: January 5-14, 18-February 14, December 18-31; due to backwater from ice conditions and May 29, June 17-19, and July 23-25 due to missing gage height record. Records good except for estimated records, which 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 5,610 cubic feet per second September 24, gage height 5.37 feet; maximum gage height 7.31 feet January 6 due to backwater from ice; minimum daily discharge 402 cubic feet per second July 7.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR     | APR     | MAY    | JUN    | JUL    | AUG     | SEP     | OCT       | NOV     | DEC     |
|-----------|--------|---------|---------|---------|--------|--------|--------|---------|---------|-----------|---------|---------|
| 1         | 1,630  | 850E    | 1,240   | 1,630   | 1,030  | 2,450  | 881    | 1,920   | 1,400   | 4,430     | 2,140   | 2,370   |
| 2         | 1,500  | 700E    | 1,890   | 1,980   | 952    | 2,330  | 878    | 1,940   | 1,570   | 4,130     | 2,180   | 2,430   |
| 3         | 1,650  | 1,350E  | 1,790   | 2,000   | 911    | 2,150  | 727    | 3,310   | 1,700   | 3,930     | 2,230   | 2,360   |
| 4         | 1,690  | 1,400E  | 1,820   | 1,890   | 1,050  | 1,960  | 477    | 3,060   | 1,730   | 3,850     | 2,120   | 2,320   |
| 5         | 1,750E | 1,500E  | 2,180   | 1,910   | 1,020  | 1,780  | 445    | 2,590   | 1,900   | 3,860     | 2,100   | 2,120   |
| 6         | 1,800E | 1,700E  | 2,120   | 2,010   | 1,020  | 1,430  | 436    | 2,300   | 2,040   | 3,740     | 2,140   | 2,410   |
| 7         | 1,700E | 1,900E  | 1,800   | 2,050   | 996    | 1,390  | 402    | 2,210   | 2,040   | 3,490     | 2,070   | 2,450   |
| 8         | 1,800E | 2,300E  | 1,610   | 2,070   | 885    | 1,320  | 563    | 2,110   | 2,070   | 3,230     | 2,020   | 2,420   |
| 9         | 1,500E | 2,900E  | 1,760   | 2,080   | 1,180  | 1,330  | 722    | 1,970   | 2,250   | 3,000     | 2,150   | 2,420   |
| 10        | 1,200E | 3,500E  | 1,800   | 1,570   | 1,280  | 1,570  | 989    | 1,810   | 2,550   | 2,680     | 2,100   | 2,370   |
| 11        | 1,600E | 3,400E  | 2,270   | 1,810   | 1,220  | 1,260  | 1,100  | 1,720   | 2,610   | 3,130     | 2,040   | 2,380   |
| 12        | 2,000E | 3,200E  | 2,020   | 1,960   | 1,090  | 1,450  | 1,110  | 1,730   | 2,450   | 3,090     | 1,860   | 2,330   |
| 13        | 2,300E | 3,300E  | 1,960   | 1,950   | 1,080  | 1,440  | 903    | 1,370   | 2,430   | 2,980     | 1,780   | 2,250   |
| 14        | 2,100E | 3,400E  | 2,090   | 2,090   | 1,340  | 1,240  | 767    | 1,140   | 2,430   | 2,830     | 1,750   | 2,150   |
| 15        | 1,980  | 2,660   | 1,990   | 2,250   | 1,220  | 1,360  | 839    | 1,030   | 2,500   | 2,600     | 1,870   | 2,040   |
| 16        | 2,060  | 2,490   | 1,900   | 2,280   | 1,250  | 2,310  | 936    | 990     | 2,510   | 2,420     | 2,260   | 2,080   |
| 17        | 1,690  | 2,410   | 1,830   | 2,240   | 1,420  | 2,650E | 798    | 2,060   | 2,490   | 2,240     | 2,100   | 1,570   |
| 18        | 1,500E | 2,450   | 1,830   | 2,180   | 1,060  | 2,100E | 761    | 2,360   | 2,660   | 2,100     | 2,040   | 1,700E  |
| 19        | 1,400E | 2,630   | 1,450   | 2,160   | 933    | 1,800E | 593    | 2,410   | 3,300   | 2,100     | 2,080   | 1,800E  |
| 20        | 1,350E | 2,560   | 1,600   | 2,030   | 852    | 1,610  | 977    | 2,300   | 3,870   | 2,050     | 2,110   | 1,850E  |
| 21        | 1,300E | 2,390   | 1,900   | 1,930   | 894    | 1,610  | 1,430  | 2,240   | 4,660   | 1,960     | 2,050   | 1,900E  |
| 22        | 1,300E | 2,320   | 2,130   | 1,830   | 878    | 1,500  | 1,880  | 2,190   | 5,110   | 1,890     | 2,080   | 1,950E  |
| 23        | 1,400E | 2,130   | 2,170   | 1,860   | 855    | 1,950  | 1,600E | 2,070   | 5,240   | 1,370     | 2,200   | 2,000E  |
| 24        | 1,450E | 1,970   | 2,060   | 2,000   | 887    | 1,950  | 1,350E | 1,950   | 5,460   | 1,330     | 2,220   | 2,000E  |
| 25        | 1,500E | 1,900   | 1,990   | 1,620   | 928    | 1,810  | 1,300E | 1,860   | 5,230   | 1,350     | 2,190   | 2,000E  |
| 26        | 1,600E | 1,750   | 1,820   | 1,460   | 1,290  | 1,640  | 1,770  | 1,770   | 4,720   | 1,660     | 2,210   | 2,000E  |
| 27        | 1,550E | 1,610   | 2,140   | 1,400   | 2,770  | 1,570  | 1,760  | 1,500   | 4,690   | 1,790     | 2,280   | 2,050E  |
| 28        | 1,700E | 1,190   | 2,110   | 1,300   | 3,980  | 1,060  | 1,720  | 1,250   | 4,750   | 1,420     | 2,270   | 2,050E  |
| 29        | 1,000E | 938     | 2,010   | 1,110   | 3,500E | 1,100  | 2,010  | 978     | 4,600   | 629       | 2,360   | 2,050E  |
| 30        | 800E   | -----   | 2,040   | 1,070   | 3,090  | 941    | 1,820  | 748     | 4,540   | 753       | 2,380   | 2,050E  |
| 31        | 650E   | -----   | 1,690   | -----   | 2,450  | -----  | 1,970  | 1,170   | -----   | 1,540     | -----   | 2,050E  |
| TOTAL     | 48,450 | 62,798  | 59,010  | 55,720  | 43,311 | 50,061 | 33,914 | 58,056  | 95,500  | 77,572    | 63,360  | 65,920  |
| MEAN      | 1,563  | 2,165   | 1,904   | 1,857   | 1,397  | 1,669  | 1,094  | 1,873   | 3,183   | 2,502     | 2,113   | 2,126   |
| MAX       | 2,300  | 3,500   | 2,270   | 2,280   | 3,980  | 2,650  | 2,010  | 3,310   | 5,460   | 4,430     | 2,380   | 2,450   |
| MIN       | 650    | 700     | 1,240   | 1,070   | 852    | 941    | 402    | 748     | 1,400   | 629       | 1,750   | 1,570   |
| AC-FT     | 96,100 | 124,600 | 117,000 | 110,500 | 85,910 | 99,300 | 67,270 | 115,200 | 189,400 | 153,900   | 125,700 | 130,800 |
| YEAR 1996 | TOTAL  | 713,692 | MEAN    | 1,950   | MAX    | 5,460  | MIN    | 402     | AC-FT   | 1,416,000 |         |         |

PLATTE RIVER BASIN

WOOD RIVER near Alda, 06772000 - 1996

LOCATION.--NE1/4SE1/4 Sec. 7,T 10N,R 10 W., Hall County, Lat. 40° 51' 10", Long. 98° 28' 20", on right bank 1.2 miles south of Alda, 2.2 miles upstream from old north channel of the Platte River, and at mile 26.6 above mouth.

DRAINAGE AREA.--628 Square miles.

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

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994.  
 E indicates estimated daily discharge. Estimated records January 1-February 19, 23-March 13, November 23-December 31.  
 Records fair except estimated records poor. Many small pump diversions for irrigation upstream.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 443 cubic feet per second on June 16, gage height 10.10 feet; minimum daily discharge zero March 26 and October 31.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB      | MAR    | APR   | MAY     | JUN   | JUL   | AUG   | SEP   | OCT    | NOV    | DEC   |
|-----------|-------|----------|--------|-------|---------|-------|-------|-------|-------|--------|--------|-------|
| 1         | 1.8 E | .30E     | 8.0 E  | 18    | 4.5     | 104   | 16    | 29    | 15    | 2.4    | .13    | 7.6E  |
| 2         | 1.9 E | .30E     | 9.0 E  | 15    | 4.6     | 75    | 15    | 47    | 11    | 1.9    | .42    | 6.6E  |
| 3         | 1.8 E | .40E     | 8.0 E  | 12    | 5.5     | 58    | 15    | 38    | 8.4   | 1.5    | .37    | 6.0E  |
| 4         | 1.5 E | .70E     | 7.0 E  | 13    | 5.5     | 43    | 15    | 27    | 9.4   | 1.5    | .65    | 6.4E  |
| 5         | 1.3 E | 1.0 E    | 6.0 E  | 11    | 7.0     | 44    | 16    | 19    | 13    | 2.5    | .72    | 5.4E  |
| 6         | 1.0 E | 1.5 E    | 5.4 E  | 8.4   | 7.5     | 29    | 18    | 14    | 10    | 2.6    | .51    | 5.8E  |
| 7         | 1.2 E | 2.5 E    | 5.0 E  | 6.8   | 7.1     | 23    | 21    | 17    | 11    | 2.7    | 2.7    | 5.0E  |
| 8         | 1.3 E | 4.5 E    | 5.4 E  | 6.2   | 9.3     | 20    | 28    | 30    | 8.6   | 2.3    | 5.2    | 4.5E  |
| 9         | 1.5 E | 6.0 E    | 4.5 E  | 6.2   | 54      | 18    | 90    | 26    | 9.7   | 1.8    | 4.1    | 4.7E  |
| 10        | 1.7 E | 8.0 E    | 4.5 E  | 6.6   | 272     | 15    | 81    | 13    | 6.3   | 1.5    | 3.4    | 4.2E  |
| 11        | 1.8 E | 7.0 E    | 5.0 E  | 6.6   | 149     | 14    | 47    | 7.8   | 3.5   | 1.6    | 3.3    | 4.5E  |
| 12        | 1.9 E | 8.0 E    | 5.6 E  | 6.7   | 56      | 14    | 27    | 7.3   | 2.3   | 2.0    | 3.9    | 4.2E  |
| 13        | 2.0 E | 9.0 E    | 5.0 E  | 6.8   | 41      | 13    | 27    | 6.9   | 1.8   | 2.1    | 3.1    | 4.7E  |
| 14        | 1.9 E | 11 E     | 5.5    | 9.2   | 31      | 13    | 28    | 9.1   | 2.3   | 1.7    | 7.3    | 5.0E  |
| 15        | 1.8 E | 10 E     | 7.5    | 9.3   | 16      | 13    | 25    | 12    | 5.0   | 2.1    | 6.8    | 4.8E  |
| 16        | 1.9 E | 9.0 E    | 5.6    | 8.7   | 33      | 35    | 23    | 22    | 5.8   | 1.8    | 36     | 4.6E  |
| 17        | 1.8 E | 11 E     | 4.7    | 7.8   | 52      | 260   | 31    | 20    | 4.3   | 1.4    | 78     | 4.2E  |
| 18        | 1.6 E | 13 E     | 4.2    | 6.9   | 29      | 432   | 36    | 19    | 4.3   | 1.5    | 56     | 4.0E  |
| 19        | 1.3 E | 16 E     | 5.3    | 5.4   | 28      | 207   | 44    | 10    | 6.6   | 1.4    | 38     | 3.5E  |
| 20        | 1.1 E | 18       | 6.1    | 4.5   | 15      | 53    | 54    | 7.0   | 9.0   | 1.7    | 19     | 3.5E  |
| 21        | 1.2 E | 16       | 5.9    | 4.5   | 8.6     | 37    | 41    | 5.7   | 6.5   | 2.2    | 18     | 4.0E  |
| 22        | .80E  | 16       | 3.0    | 4.0   | 8.2     | 29    | 31    | 7.5   | 3.9   | 3.0    | 19     | 3.8E  |
| 23        | .60E  | 13 E     | 3.1    | 4.1   | 16      | 98    | 27    | 7.4   | 9.6   | 2.5    | 12 E   | 3.5E  |
| 24        | .40E  | 11 E     | 2.9    | 4.4   | 11      | 133   | 24    | 8.9   | 23    | 2.3    | 8.0 E  | 3.3E  |
| 25        | .30E  | 10 E     | 1.0    | 4.4   | 34      | 105   | 25    | 6.9   | 14    | 2.1    | 8.0 E  | 3.4E  |
| 26        | .20E  | 9.0 E    | 0      | 4.3   | 82      | 43    | 19    | 6.2   | 9.4   | 1.1    | 8.4 E  | 3.5E  |
| 27        | .20E  | 8.4 E    | .35    | 3.9   | 175     | 32    | 18    | 6.4   | 6.7   | .65    | 8.8 E  | 3.7E  |
| 28        | .30E  | 9.0 E    | .64    | 4.4   | 202     | 26    | 16    | 7.4   | 4.9   | .55    | 8.0 E  | 3.9E  |
| 29        | .40E  | 8.4 E    | .31    | 5.5   | 327     | 23    | 14    | 9.2   | 3.5   | .61    | 8.0 E  | 4.0E  |
| 30        | .30E  | -----    | 7.8    | 4.9   | 271     | 19    | 21    | 14    | 2.8   | .11    | 8.4 E  | 3.8E  |
| 31        | .30E  | -----    | 24     | ----- | 104     | ----- | 24    | 15    | ----- | 0      | -----  | 3.2E  |
| TOTAL     | 37.10 | 238.00   | 166.30 | 219.5 | 2,065.8 | 2,028 | 917   | 475.7 | 231.6 | 53.12  | 376.20 | 139.3 |
| MEAN      | 1.20  | 8.21     | 5.36   | 7.32  | 66.6    | 67.6  | 29.6  | 15.3  | 7.72  | 1.71   | 12.5   | 4.49  |
| MAX       | 2.0   | 18       | 24     | 18    | 327     | 432   | 90    | 47    | 23    | 3.0    | 78     | 7.6   |
| MIN       | .20   | .30      | 0      | 3.9   | 4.5     | 13    | 14    | 5.7   | 1.8   | 0      | .13    | 3.2   |
| AC-FT     | 74    | 472      | 330    | 435   | 4,100   | 4,020 | 1,820 | 944   | 459   | 105    | 746    | 276   |
| YEAR 1996 | TOTAL | 6,947.62 | MEAN   | 19.0  | MAX     | 432   | MIN   | 0     | AC-FT | 13,780 |        |       |

# PLATTE RIVER BASIN (LOUP RIVER)

SARGENT CANAL from Middle Loup River, 00130000 - 1996

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

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

PERIOD OF RECORD.--1957 - present

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN     | JUL    | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|---------|--------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       |       | 0       | 157    | 139   | 84    |     |       |     |
| 2         |     |       |     |       |       | 0       | 194    | 152   | 85    |     |       |     |
| 3         |     |       |     |       |       | 0       | 228    | 133   | 92    |     |       |     |
| 4         |     |       |     |       |       | 0       | 238    | 125   | 124   |     |       |     |
| 5         |     |       |     |       |       | 0       | 242    | 75    | 145   |     |       |     |
| 6         |     |       |     |       |       | 0       | 256    | 37    | 152   |     |       |     |
| 7         |     |       |     |       |       | 0       | 263    | 34    | 130   |     |       |     |
| 8         |     |       |     |       |       | 0       | 250    | 34    | 118   |     |       |     |
| 9         |     |       |     |       |       | 0       | 220    | 35    | 93    |     |       |     |
| 10        |     |       |     |       |       | 0       | 205    | 35    | 75    |     |       |     |
| 11        |     |       |     |       |       | 0       | 193    | 34    | 63    |     |       |     |
| 12        |     |       |     |       |       | 0       | 174    | 57    | 59    |     |       |     |
| 13        |     |       |     |       |       | 0       | 157    | 97    | 59    |     |       |     |
| 14        |     |       |     |       |       | 0       | 156    | 137   | 59    |     |       |     |
| 15        |     |       |     |       |       | 0       | 178    | 161   | 58    |     |       |     |
| 16        |     |       |     |       |       | 8.8     | 217    | 106   | 21    |     |       |     |
| 17        |     |       |     |       |       | 44      | 231    | 54    | 0     |     |       |     |
| 18        |     |       |     |       |       | 50      | 224    | 49    | 0     |     |       |     |
| 19        |     |       |     |       |       | 52      | 213    | 49    | 0     |     |       |     |
| 20        |     |       |     |       |       | 51      | 201    | 49    | 0     |     |       |     |
| 21        |     |       |     |       |       | 52      | 200    | 48    | 0     |     |       |     |
| 22        |     |       |     |       |       | 51      | 200    | 42    | 0     |     |       |     |
| 23        |     |       |     |       |       | 51      | 198    | 41    | 0     |     |       |     |
| 24        |     |       |     |       |       | 54      | 182    | 46    | 0     |     |       |     |
| 25        |     |       |     |       |       | 57      | 177    | 49    | 0     |     |       |     |
| 26        |     |       |     |       |       | 75      | 178    | 59    | 0     |     |       |     |
| 27        |     |       |     |       |       | 90      | 133    | 62    | 0     |     |       |     |
| 28        |     |       |     |       |       | 98      | 106    | 70    | 0     |     |       |     |
| 29        |     |       |     |       |       | 129     | 115    | 103   | 0     |     |       |     |
| 30        |     | ----- |     |       |       | 140     | 118    | 110   | 0     |     |       |     |
| 31        |     | ----- |     | ----- |       | -----   | 130    | 88    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       |       | 1,002.8 | 5,934  | 2,310 | 1,417 |     |       |     |
| MEAN      |     |       |     |       |       | 33.4    | 191    | 74.5  | 47.2  |     |       |     |
| MAX       |     |       |     |       |       | 140     | 263    | 161   | 152   |     |       |     |
| MIN       |     |       |     |       |       | 0       | 106    | 34    | 0     |     |       |     |
| AC-FT     |     |       |     |       |       | 1,990   | 11,770 | 4,580 | 2,810 |     |       |     |
| YEAR 1996 | MAX | 263   | MIN | 0     | AC-FT | 21,150  |        |       |       |     |       |     |

# PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 1 from Middle Loup River, 00090000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1938 - present

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 16    | 37    | 42    | 29    |     |       |     |
| 2         |     |       |     |       | 0     | 15    | 42    | 39    | 28    |     |       |     |
| 3         |     |       |     |       | 0     | 14    | 48    | 39    | 32    |     |       |     |
| 4         |     |       |     |       | 0     | 14    | 50    | 41    | 39    |     |       |     |
| 5         |     |       |     |       | 0     | 14    | 49    | 31    | 38    |     |       |     |
| 6         |     |       |     |       | 0     | 13    | 48    | 18    | 37    |     |       |     |
| 7         |     |       |     |       | 0     | 13    | 47    | 16    | 34    |     |       |     |
| 8         |     |       |     |       | 0     | 12    | 41    | 16    | 25    |     |       |     |
| 9         |     |       |     |       | 0     | 13    | 40    | 16    | 17    |     |       |     |
| 10        |     |       |     |       | 0     | 13    | 39    | 17    | 16    |     |       |     |
| 11        |     |       |     |       | 0     | 12    | 40    | 19    | 15    |     |       |     |
| 12        |     |       |     |       | 0     | 10    | 38    | 25    | 15    |     |       |     |
| 13        |     |       |     |       | 0     | 10    | 38    | 26    | 15    |     |       |     |
| 14        |     |       |     |       | 0     | 13    | 39    | 29    | 16    |     |       |     |
| 15        |     |       |     |       | 3.9   | 15    | 40    | 32    | 16    |     |       |     |
| 16        |     |       |     |       | 6.7   | 13    | 40    | 26    | 16    |     |       |     |
| 17        |     |       |     |       | 6.3   | 13    | 38    | 20    | 14    |     |       |     |
| 18        |     |       |     |       | 5.8   | 11    | 39    | 20    | 6.9   |     |       |     |
| 19        |     |       |     |       | 5.2   | 10    | 42    | 21    | 0     |     |       |     |
| 20        |     |       |     |       | 4.9   | 9.8   | 42    | 19    | 0     |     |       |     |
| 21        |     |       |     |       | 12    | 13    | 40    | 18    | 0     |     |       |     |
| 22        |     |       |     |       | 18    | 16    | 39    | 19    | 0     |     |       |     |
| 23        |     |       |     |       | 17    | 16    | 38    | 19    | 0     |     |       |     |
| 24        |     |       |     |       | 16    | 17    | 39    | 18    | 0     |     |       |     |
| 25        |     |       |     |       | 14    | 18    | 40    | 18    | 0     |     |       |     |
| 26        |     |       |     |       | 13    | 18    | 40    | 24    | 0     |     |       |     |
| 27        |     |       |     |       | 16    | 18    | 38    | 28    | 0     |     |       |     |
| 28        |     |       |     |       | 13    | 23    | 36    | 27    | 0     |     |       |     |
| 29        |     |       |     |       | 11    | 30    | 36    | 27    | 0     |     |       |     |
| 30        |     | ----- |     |       | 10    | 32    | 34    | 27    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 14    | ----- | 36    | 28    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 186.8 | 454.8 | 1,253 | 765   | 408.9 |     |       |     |
| MEAN      |     |       |     |       | 6.03  | 15.2  | 40.4  | 24.7  | 13.6  |     |       |     |
| MAX       |     |       |     |       | 18    | 32    | 50    | 42    | 39    |     |       |     |
| MIN       |     |       |     |       | 0     | 9.8   | 34    | 16    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 371   | 902   | 2,490 | 1,520 | 811   |     |       |     |
| YEAR 1996 | MAX | 50    | MIN | 0     | AC-FT | 6,090 |       |       |       |     |       |     |

# PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 1 PUMP from Middle Loup River, 00090200 - 1996

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

GAGE.--Flow Meter

PERIOD OF RECORD.--1987 - present

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG  | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|------|-------|-----|-------|-----|
| 1         |     |       |     |       |       |       | 0     | 9.0  |       |     |       |     |
| 2         |     |       |     |       |       |       | 5.8   | 9.0  |       |     |       |     |
| 3         |     |       |     |       |       |       | 9.0   | 9.0  |       |     |       |     |
| 4         |     |       |     |       |       |       | 9.0   | 9.0  |       |     |       |     |
| 5         |     |       |     |       |       |       | 9.0   | 4.5  |       |     |       |     |
| 6         |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 7         |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 8         |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 9         |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 10        |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 11        |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 12        |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 13        |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 14        |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 15        |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 16        |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 17        |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 18        |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 19        |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 20        |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 21        |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 22        |     |       |     |       |       |       | 9.0   | 0    |       |     |       |     |
| 23        |     |       |     |       |       |       | 5.2   | 0    |       |     |       |     |
| 24        |     |       |     |       |       |       | 0     | 0    |       |     |       |     |
| 25        |     |       |     |       |       |       | 0     | 0    |       |     |       |     |
| 26        |     |       |     |       |       |       | 0     | 0    |       |     |       |     |
| 27        |     |       |     |       |       |       | 0     | 0    |       |     |       |     |
| 28        |     |       |     |       |       |       | 0     | 0    |       |     |       |     |
| 29        |     |       |     |       |       |       | 0     | 0    |       |     |       |     |
| 30        |     | ----- |     |       |       |       | 5.6   | 0    |       |     |       |     |
| 31        |     | ----- |     | ----- |       | ----- | 9.0   | 0    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       |       |       | 205.6 | 40.5 |       |     |       |     |
| MEAN      |     |       |     |       |       |       | 6.63  | 1.31 |       |     |       |     |
| MAX       |     |       |     |       |       |       | 9.0   | 9.0  |       |     |       |     |
| MIN       |     |       |     |       |       |       | 0     | 0    |       |     |       |     |
| AC-FT     |     |       |     |       |       |       | 408   | 80   |       |     |       |     |
| YEAR 1996 | MAX | 9.0   | MIN | 0     | AC-FT | 488   |       |      |       |     |       |     |

# PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 2 from Middle Loup River, 00091000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1938 - present

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 14    | 51    | 48    | 33    |     |       |     |
| 2         |     |       |     |       | 0     | 13    | 58    | 43    | 32    |     |       |     |
| 3         |     |       |     |       | 0     | 12    | 56    | 40    | 37    |     |       |     |
| 4         |     |       |     |       | 0     | 10    | 56    | 38    | 41    |     |       |     |
| 5         |     |       |     |       | 0     | 9.4   | 55    | 30    | 37    |     |       |     |
| 6         |     |       |     |       | 0     | 10    | 51    | 23    | 37    |     |       |     |
| 7         |     |       |     |       | 0     | 10    | 52    | 22    | 38    |     |       |     |
| 8         |     |       |     |       | 0     | 9.7   | 49    | 21    | 30    |     |       |     |
| 9         |     |       |     |       | 0     | 7.9   | 48    | 21    | 22    |     |       |     |
| 10        |     |       |     |       | 0     | 7.4   | 47    | 22    | 22    |     |       |     |
| 11        |     |       |     |       | 0     | 7.3   | 45    | 25    | 21    |     |       |     |
| 12        |     |       |     |       | 0     | 9.5   | 43    | 35    | 24    |     |       |     |
| 13        |     |       |     |       | 0     | 13    | 43    | 36    | 26    |     |       |     |
| 14        |     |       |     |       | 0     | 16    | 43    | 35    | 26    |     |       |     |
| 15        |     |       |     |       | 13    | 19    | 47    | 35    | 25    |     |       |     |
| 16        |     |       |     |       | 33    | 21    | 47    | 32    | 24    |     |       |     |
| 17        |     |       |     |       | 30    | 23    | 44    | 24    | 19    |     |       |     |
| 18        |     |       |     |       | 27    | 23    | 47    | 24    | 7.2   |     |       |     |
| 19        |     |       |     |       | 23    | 21    | 46    | 24    | 0     |     |       |     |
| 20        |     |       |     |       | 21    | 18    | 50    | 23    | 0     |     |       |     |
| 21        |     |       |     |       | 18    | 16    | 52    | 22    | 0     |     |       |     |
| 22        |     |       |     |       | 14    | 16    | 48    | 22    | 0     |     |       |     |
| 23        |     |       |     |       | 14    | 16    | 48    | 22    | 0     |     |       |     |
| 24        |     |       |     |       | 15    | 17    | 43    | 21    | 0     |     |       |     |
| 25        |     |       |     |       | 16    | 24    | 46    | 21    | 0     |     |       |     |
| 26        |     |       |     |       | 16    | 27    | 46    | 30    | 0     |     |       |     |
| 27        |     |       |     |       | 18    | 25    | 44    | 34    | 0     |     |       |     |
| 28        |     |       |     |       | 17    | 30    | 43    | 33    | 0     |     |       |     |
| 29        |     |       |     |       | 15    | 38    | 46    | 33    | 0     |     |       |     |
| 30        |     | ----- |     |       | 14    | 40    | 47    | 33    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 13    | ----- | 48    | 33    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 317   | 523.2 | 1,489 | 905   | 501.2 |     |       |     |
| MEAN      |     |       |     |       | 10.2  | 17.4  | 48.0  | 29.2  | 16.7  |     |       |     |
| MAX       |     |       |     |       | 33    | 40    | 58    | 48    | 41    |     |       |     |
| MIN       |     |       |     |       | 0     | 7.3   | 43    | 21    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 629   | 1,040 | 2,950 | 1,800 | 994   |     |       |     |
| YEAR 1996 | MAX | 58    | MIN | 0     | AC-FT | 7,410 |       |       |       |     |       |     |

# PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 3 from Middle Loup River, 00092000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1938 - present

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

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 44     | 116   | 123   | 96    |     |       |     |
| 2         |     |       |     |       | 0     | 44     | 119   | 122   | 96    |     |       |     |
| 3         |     |       |     |       | 0     | 44     | 129   | 120   | 95    |     |       |     |
| 4         |     |       |     |       | 0     | 45     | 154   | 109   | 97    |     |       |     |
| 5         |     |       |     |       | 0     | 45     | 149   | 67    | 100   |     |       |     |
| 6         |     |       |     |       | 0     | 45     | 129   | 30    | 95    |     |       |     |
| 7         |     |       |     |       | 0     | 44     | 132   | 31    | 76    |     |       |     |
| 8         |     |       |     |       | 0     | 44     | 119   | 30    | 66    |     |       |     |
| 9         |     |       |     |       | 0     | 45     | 99    | 29    | 65    |     |       |     |
| 10        |     |       |     |       | 0     | 45     | 65    | 44    | 65    |     |       |     |
| 11        |     |       |     |       | 0     | 44     | 78    | 54    | 65    |     |       |     |
| 12        |     |       |     |       | 0     | 47     | 77    | 53    | 57    |     |       |     |
| 13        |     |       |     |       | 0     | 51     | 81    | 52    | 52    |     |       |     |
| 14        |     |       |     |       | 0     | 50     | 83    | 52    | 52    |     |       |     |
| 15        |     |       |     |       | 0     | 49     | 98    | 51    | 51    |     |       |     |
| 16        |     |       |     |       | 0     | 48     | 115   | 43    | 44    |     |       |     |
| 17        |     |       |     |       | 0     | 46     | 111   | 32    | 28    |     |       |     |
| 18        |     |       |     |       | 0     | 45     | 127   | 30    | 11    |     |       |     |
| 19        |     |       |     |       | 0     | 45     | 134   | 29    | 0     |     |       |     |
| 20        |     |       |     |       | 49    | 44     | 127   | 28    | 0     |     |       |     |
| 21        |     |       |     |       | 73    | 45     | 119   | 28    | 0     |     |       |     |
| 22        |     |       |     |       | 53    | 45     | 113   | 28    | 0     |     |       |     |
| 23        |     |       |     |       | 46    | 46     | 121   | 29    | 0     |     |       |     |
| 24        |     |       |     |       | 44    | 54     | 104   | 28    | 0     |     |       |     |
| 25        |     |       |     |       | 44    | 76     | 96    | 30    | 0     |     |       |     |
| 26        |     |       |     |       | 42    | 85     | 95    | 51    | 0     |     |       |     |
| 27        |     |       |     |       | 42    | 67     | 97    | 62    | 0     |     |       |     |
| 28        |     |       |     |       | 41    | 92     | 102   | 72    | 0     |     |       |     |
| 29        |     |       |     |       | 42    | 93     | 113   | 75    | 0     |     |       |     |
| 30        |     | ----- |     |       | 42    | 107    | 118   | 82    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 43    | -----  | 127   | 95    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 561   | 1,644  | 3,467 | 1,709 | 1,211 |     |       |     |
| MEAN      |     |       |     |       | 18.1  | 54.8   | 112   | 55.1  | 40.4  |     |       |     |
| MAX       |     |       |     |       | 73    | 107    | 154   | 123   | 100   |     |       |     |
| MIN       |     |       |     |       | 0     | 44     | 77    | 28    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 1,110 | 3,260  | 6,880 | 3,390 | 2,400 |     |       |     |
| YEAR 1996 | MAX | 154   | MIN | 0     | AC-FT | 17,040 |       |       |       |     |       |     |



# PLATTE RIVER BASIN ( LOUP RIVER )

MIDDLE LOUP CANAL NO. 4 from Middle Loup River, 00093000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1938 - present

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 40     | 100   | 117   | 84    |     |       |     |
| 2         |     |       |     |       | 0     | 38     | 108   | 107   | 82    |     |       |     |
| 3         |     |       |     |       | 0     | 36     | 113   | 103   | 83    |     |       |     |
| 4         |     |       |     |       | 0     | 37     | 132   | 93    | 85    |     |       |     |
| 5         |     |       |     |       | 0     | 37     | 149   | 48    | 85    |     |       |     |
| 6         |     |       |     |       | 0     | 37     | 144   | 33    | 87    |     |       |     |
| 7         |     |       |     |       | 0     | 38     | 136   | 33    | 71    |     |       |     |
| 8         |     |       |     |       | 0     | 39     | 83    | 34    | 62    |     |       |     |
| 9         |     |       |     |       | 0     | 39     | 65    | 34    | 61    |     |       |     |
| 10        |     |       |     |       | 0     | 40     | 68    | 40    | 60    |     |       |     |
| 11        |     |       |     |       | 0     | 41     | 51    | 42    | 59    |     |       |     |
| 12        |     |       |     |       | 0     | 42     | 37    | 43    | 57    |     |       |     |
| 13        |     |       |     |       |       | 43     | 64    | 44    | 54    |     |       |     |
| 14        |     |       |     |       | 22    | 43     | 64    | 43    | 55    |     |       |     |
| 15        |     |       |     |       | 69    | 44     | 94    | 43    | 55    |     |       |     |
| 16        |     |       |     |       | 57    | 44     | 126   | 40    | 53    |     |       |     |
| 17        |     |       |     |       | 42    | 44     | 131   | 40    | 52    |     |       |     |
| 18        |     |       |     |       | 42    | 45     | 130   | 41    | 25    |     |       |     |
| 19        |     |       |     |       | 43    | 43     | 123   | 40    | 0     |     |       |     |
| 20        |     |       |     |       | 42    | 43     | 118   | 40    | 0     |     |       |     |
| 21        |     |       |     |       | 39    | 43     | 119   | 40    | 0     |     |       |     |
| 22        |     |       |     |       | 36    | 43     | 118   | 40    | 0     |     |       |     |
| 23        |     |       |     |       | 42    | 43     | 114   | 40    | 0     |     |       |     |
| 24        |     |       |     |       | 42    | 41     | 108   | 40    | 0     |     |       |     |
| 25        |     |       |     |       | 43    | 41     | 100   | 40    | 0     |     |       |     |
| 26        |     |       |     |       | 42    | 42     | 101   | 59    | 0     |     |       |     |
| 27        |     |       |     |       | 43    | 52     | 101   | 78    | 0     |     |       |     |
| 28        |     |       |     |       | 43    | 71     | 101   | 83    | 0     |     |       |     |
| 29        |     |       |     |       | 42    | 84     | 110   | 89    | 0     |     |       |     |
| 30        |     | ----- |     |       | 41    | 90     | 115   | 94    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 41    | -----  | 114   | 86    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 771   | 1,365  | 3,237 | 1,747 | 1,170 |     |       |     |
| MEAN      |     |       |     |       | 25.7  | 45.5   | 104   | 56.4  | 39.0  |     |       |     |
| MAX       |     |       |     |       | 69    | 90     | 149   | 117   | 87    |     |       |     |
| MIN       |     |       |     |       | 0     | 37     | 37    | 33    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 1,530 | 2,710  | 6,420 | 3,470 | 2,320 |     |       |     |
| YEAR 1996 | MAX | 149   | MIN | 0     | AC-FT | 16,440 |       |       |       |     |       |     |

# PLATTE RIVER BASIN (LOUP RIVER)

FARWELL (SHERMAN FEEDER) CANAL from Middle Loup River, 00047000 - 1996

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

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR     | MAY    | JUN    | JUL    | AUG    | SEP    | OCT | NOV | DEC |
|-----------|-----|-------|-----|---------|--------|--------|--------|--------|--------|-----|-----|-----|
| 1         |     |       |     | 0       | 365    | 304    | 339    | 354    | 328    |     |     |     |
| 2         |     |       |     | 0       | 372    | 260    | 288    | 355    | 322    |     |     |     |
| 3         |     |       |     | 0       | 373    | 253    | 212    | 352    | 348    |     |     |     |
| 4         |     |       |     | 0       | 375    | 235    | 164    | 351    | 367    |     |     |     |
| 5         |     |       |     | 0       | 376    | 243    | 153    | 363    | 357    |     |     |     |
| 6         |     |       |     | 0       | 373    | 241    | 133    | 414    | 372    |     |     |     |
| 7         |     |       |     | 0       | 370    | 240    | 153    | 407    | 363    |     |     |     |
| 8         |     |       |     | 0       | 367    | 242    | 187    | 407    | 364    |     |     |     |
| 9         |     |       |     | 0       | 364    | 239    | 262    | 413    | 367    |     |     |     |
| 10        |     |       |     | 0       | 366    | 237    | 294    | 414    | 361    |     |     |     |
| 11        |     |       |     | 0       | 374    | 295    | 320    | 416    | 365    |     |     |     |
| 12        |     |       |     | 0       | 379    | 341    | 335    | 409    | 363    |     |     |     |
| 13        |     |       |     | 0       | 374    | 340    | 361    | 417    | 368    |     |     |     |
| 14        |     |       |     | 0       | 363    | 338    | 373    | 413    | 373    |     |     |     |
| 15        |     |       |     | 0       | 349    | 343    | 336    | 413    | 377    |     |     |     |
| 16        |     |       |     | 0       | 355    | 342    | 280    | 398    | 383    |     |     |     |
| 17        |     |       |     | 0       | 354    | 348    | 223    | 331    | 390    |     |     |     |
| 18        |     |       |     | 0       | 349    | 356    | 190    | 237    | 363    |     |     |     |
| 19        |     |       |     | 0       | 356    | 347    | 159    | 199    | 347    |     |     |     |
| 20        |     |       |     | 0       | 353    | 350    | 166    | 206    | 341    |     |     |     |
| 21        |     |       |     | 0       | 362    | 349    | 200    | 206    | 348    |     |     |     |
| 22        |     |       |     | 6.9     | 360    | 350    | 228    | 202    | 359    |     |     |     |
| 23        |     |       |     | 85      | 356    | 348    | 269    | 167    | 279    |     |     |     |
| 24        |     |       |     | 180     | 356    | 306    | 321    | 150    | 155    |     |     |     |
| 25        |     |       |     | 255     | 354    | 284    | 347    | 145    | 43     |     |     |     |
| 26        |     |       |     | 320     | 356    | 287    | 347    | 141    | 0      |     |     |     |
| 27        |     |       |     | 363     | 359    | 284    | 353    | 150    | 0      |     |     |     |
| 28        |     |       |     | 348     | 354    | 305    | 347    | 159    | 0      |     |     |     |
| 29        |     |       |     | 352     | 367    | 323    | 349    | 203    | 0      |     |     |     |
| 30        |     |       |     | 365     | 362    | 339    | 363    | 261    | 0      |     |     |     |
| 31        |     | ----- |     | -----   | 364    | -----  | 349    | 318    | -----  |     |     |     |
| TOTAL     |     |       |     | 2,274.9 | 11,257 | 9,069  | 8,401  | 9,391  | 8,403  |     |     |     |
| MEAN      |     |       |     | 75.8    | 363    | 302    | 271    | 303    | 280    |     |     |     |
| MAX       |     |       |     | 365     | 379    | 356    | 373    | 417    | 390    |     |     |     |
| MIN       |     |       |     | 0       | 349    | 235    | 133    | 141    | 0      |     |     |     |
| AC-FT     |     |       |     | 4,510   | 22,330 | 17,990 | 16,660 | 18,630 | 16,670 |     |     |     |
| YEAR 1996 | MAX | 417   | MIN | 0       | AC-FT  | 96,790 |        |        |        |     |     |     |

# PLATTE RIVER BASIN (LOUP RIVER)

MIDDLE LOUP CANAL NO. 4 from Sherman Feeder Canal, 00093200 - 1996

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

GAGE.--Flow meter

PERIOD OF RECORD.--1986 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL | AUG  | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-----|------|-------|-----|-------|-----|
| 1         |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 2         |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 3         |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 4         |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 5         |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 6         |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 7         |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 8         |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 9         |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 10        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 11        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 12        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 13        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 14        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 15        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 16        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 17        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 18        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 19        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 20        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 21        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 22        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 23        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 24        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 25        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 26        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 27        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 28        |     |       |     |       |       |       |     | 0    |       |     |       |     |
| 29        |     |       |     |       |       |       |     | 6.8  |       |     |       |     |
| 30        |     | ----- |     |       |       |       |     | 12   |       |     |       |     |
| 31        |     | ----- |     | ----- |       | ----- |     | 4.3  | ----- |     | ----- |     |
| TOTAL     |     |       |     |       |       |       |     | 23.1 |       |     |       |     |
| MEAN      |     |       |     |       |       |       |     | .75  |       |     |       |     |
| MAX       |     |       |     |       |       |       |     | 12   |       |     |       |     |
| MIN       |     |       |     |       |       |       |     | 0    |       |     |       |     |
| AC-FT     |     |       |     |       |       |       |     | 46   |       |     |       |     |
| YEAR 1996 | MAX | 12    | MIN | 0     | AC-FT | 46    |     |      |       |     |       |     |

# PLATTE RIVER BASIN (LOUP RIVER)

**MUD CREEK near Sweetwater, 06783500 - 1996**

LOCATION.--NE1/4SE1/4 Sec. 12-12-13 W., Buffalo County, Lat. 41° 02' 15", Long. 98° 59' 35", on right bank 10 feet downstream from bridge on State Highway 2, 0.9 mile southeast of Sweetwater, and 11.6 miles upstream from mouth.

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

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

PERIOD OF RECORD.--July 1946 - present

REMARKS.--Record published by U. S. Geological Survey up to October 1 1994.  
E indicates estimated daily discharge. Estimated records January 1-March 13, November 15- December 31. Records good, except estimated records poor. Records from May 26-June 18 also poor due to poor gage height record.

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 143 cubic feet per second July 31, gage height 7.74 feet; minimum daily discharge 12 cubic feet per second July 14 and 19.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 23E   | 17E    | 29E   | 35    | 31    | 114   | 25    | 67    | 19    | 21     | 27    | 25E   |
| 2         | 24E   | 16E    | 31E   | 36    | 32    | 130   | 25    | 31    | 22    | 20     | 26    | 27E   |
| 3         | 22E   | 15E    | 29E   | 39    | 33    | 96    | 22    | 29    | 21    | 20     | 26    | 26E   |
| 4         | 20E   | 16E    | 28E   | 36    | 32    | 75    | 18    | 28    | 20    | 19     | 26    | 25E   |
| 5         | 21E   | 19E    | 27E   | 34    | 32    | 73    | 16    | 46    | 20    | 21     | 27    | 27E   |
| 6         | 22E   | 22E    | 25E   | 34    | 32    | 71    | 18    | 52    | 18    | 22     | 26    | 27E   |
| 7         | 24E   | 24E    | 24E   | 34    | 32    | 69    | 20    | 37    | 19    | 22     | 27    | 25E   |
| 8         | 26E   | 23E    | 25E   | 34    | 32    | 67    | 26    | 27    | 20    | 22     | 26    | 24E   |
| 9         | 28E   | 26E    | 28E   | 33    | 32    | 65    | 15    | 90    | 22    | 21     | 26    | 25E   |
| 10        | 29E   | 29E    | 30E   | 33    | 32    | 63    | 15    | 57    | 19    | 21     | 25    | 24E   |
| 11        | 30E   | 32E    | 30E   | 32    | 31    | 61    | 14    | 70    | 19    | 21     | 25    | 26E   |
| 12        | 30E   | 31E    | 32E   | 32    | 33    | 59    | 16    | 45    | 19    | 22     | 24    | 24E   |
| 13        | 29E   | 30E    | 35E   | 31    | 35    | 56    | 13    | 32    | 18    | 22     | 24    | 23E   |
| 14        | 26E   | 32E    | 33    | 32    | 35    | 54    | 12    | 29    | 17    | 24     | 25    | 23E   |
| 15        | 24E   | 35E    | 31    | 33    | 34    | 51    | 13    | 23    | 19    | 23     | 27E   | 22E   |
| 16        | 26E   | 35E    | 30    | 32    | 35    | 49    | 15    | 21    | 19    | 22     | 25E   | 22E   |
| 17        | 24E   | 32E    | 29    | 32    | 32    | 46    | 14    | 22    | 19    | 22     | 23E   | 24E   |
| 18        | 21E   | 34E    | 29    | 32    | 31    | 44    | 14    | 51    | 20    | 24     | 25E   | 22E   |
| 19        | 19E   | 38E    | 28    | 32    | 30    | 44    | 12    | 50    | 28    | 23     | 27E   | 18E   |
| 20        | 21E   | 43E    | 28    | 32    | 31    | 35    | 16    | 38    | 34    | 23     | 27E   | 15E   |
| 21        | 23E   | 46E    | 27    | 32    | 29    | 32    | 14    | 37    | 41    | 25     | 26E   | 16E   |
| 22        | 24E   | 44E    | 28    | 32    | 28    | 32    | 18    | 41    | 64    | 24     | 26E   | 18E   |
| 23        | 27E   | 35E    | 28    | 32    | 28    | 37    | 19    | 34    | 52    | 23     | 25E   | 17E   |
| 24        | 26E   | 30E    | 30    | 32    | 28    | 31    | 20    | 31    | 29    | 23     | 26E   | 15E   |
| 25        | 28E   | 29E    | 34    | 32    | 36    | 32    | 18    | 27    | 24    | 24     | 27E   | 14E   |
| 26        | 31E   | 27E    | 40    | 31    | 56    | 29    | 17    | 25    | 23    | 24     | 28E   | 16E   |
| 27        | 29E   | 29E    | 38    | 30    | 98    | 28    | 19    | 21    | 22    | 25     | 29E   | 16E   |
| 28        | 25E   | 28E    | 44    | 30    | 96    | 27    | 19    | 19    | 21    | 24     | 27E   | 18E   |
| 29        | 21E   | 29E    | 46    | 32    | 98    | 25    | 17    | 18    | 21    | 25     | 25E   | 21E   |
| 30        | 18E   | -----  | 41    | 32    | 95    | 25    | 18    | 18    | 21    | 26     | 27E   | 22E   |
| 31        | 16E   | -----  | 38    | ----- | 77    | ----- | 104   | 17    | ----- | 26     | ----- | 25E   |
| TOTAL     | 757   | 846    | 975   | 983   | 1,316 | 1,620 | 622   | 1,133 | 750   | 704    | 780   | 672   |
| MEAN      | 24.4  | 29.2   | 31.5  | 32.8  | 42.5  | 54.0  | 20.1  | 36.5  | 25.0  | 22.7   | 26.0  | 21.7  |
| MAX       | 31    | 46     | 46    | 39    | 98    | 130   | 104   | 90    | 84    | 26     | 29    | 27    |
| MIN       | 16    | 15     | 24    | 30    | 28    | 25    | 12    | 17    | 17    | 19     | 23    | 14    |
| AC-FT     | 1,500 | 1,680  | 1,930 | 1,950 | 2,610 | 3,210 | 1,230 | 2,250 | 1,490 | 1,400  | 1,550 | 1,330 |
| YEAR 1996 | TOTAL | 11,158 | MEAN  | 30.5  | MAX   | 130   | MIN   | 12    | AC-FT | 22,130 |       |       |

# PLATTE RIVER BASIN (LOUP RIVER)

**SHERMAN RESERVOIR, 06784200 - 1996**

LOCATION.--SW1/4SW1/4 Sec. 36-16-14 W., Sherman County

GAGE.--Staff gage

PERIOD OF RECORD.--1963 - present

| STORAGE LEVEL            | ELEVATION<br>(Feet) | CONTENT<br>(Acre-feet) |
|--------------------------|---------------------|------------------------|
| Top of conservation pool | 2,162.3             | 69,076                 |
| Top of dead storage pool | 2,118.5             | 3,639                  |

DAILY CONTENTS IN ACRE-FEET FOR 1996

| Day       | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL     | AUG    | SEP    | OCT    | NOV    | DEC    |
|-----------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 1         | 51,530 | 50,580 | 49,880 | 48,730 | 51,060 | 69,370 | 69,080  | 52,970 | 52,240 | 55,920 | 53,940 | 53,210 |
| 2         | 51,530 | 50,580 | 49,880 | 48,730 | 51,530 | 69,650 | 69,080  | 52,240 | 51,530 | 55,920 | 53,940 | 53,210 |
| 3         | 51,530 | 50,580 | 49,650 | 48,730 | 52,240 | 69,650 | 69,080  | 51,770 | 51,060 | 55,670 | 53,700 | 53,210 |
| 4         | 51,530 | 50,580 | 49,650 | 48,730 | 52,720 | 69,650 | 68,210  | 51,290 | 50,350 | 55,670 | 53,700 | 53,210 |
| 5         | 51,530 | 50,350 | 49,650 | 48,500 | 53,550 | 69,650 | 66,810  | 51,290 | 49,650 | 55,670 | 53,700 | 53,210 |
| 6         | 51,530 | 50,350 | 49,650 | 48,500 | 53,940 | 69,650 | 65,680  | 51,060 | 48,960 | 55,670 | 53,700 | 53,210 |
| 7         | 51,530 | 50,350 | 49,420 | 48,500 | 54,430 | 69,650 | 64,310  | 51,290 | 48,500 | 55,670 | 53,700 | 53,210 |
| 8         | 51,530 | 50,350 | 49,420 | 48,500 | 55,170 | 69,360 | 63,760  | 51,530 | 48,500 | 55,420 | 53,700 | 53,210 |
| 9         | 51,290 | 50,350 | 49,420 | 48,270 | 55,670 | 69,360 | 63,490  | 52,000 | 48,270 | 55,420 | 53,550 | 52,970 |
| 10        | 51,290 | 50,350 | 49,420 | 48,270 | 56,170 | 69,360 | 63,490  | 52,240 | 48,500 | 55,420 | 53,550 | 52,970 |
| 11        | 51,290 | 50,350 | 49,420 | 48,270 | 56,680 | 69,080 | 63,490  | 52,970 | 48,730 | 55,170 | 53,550 | 52,970 |
| 12        | 51,290 | 50,350 | 49,420 | 48,270 | 57,430 | 69,080 | 63,760  | 53,210 | 48,960 | 55,170 | 53,550 | 52,970 |
| 13        | 51,290 | 50,350 | 49,190 | 48,270 | 57,940 | 69,080 | 63,760  | 53,550 | 49,420 | 55,170 | 53,210 | 52,970 |
| 14        | 51,290 | 50,350 | 49,190 | 48,270 | 58,460 | 69,080 | 63,760  | 53,940 | 50,110 | 55,170 | 53,210 | 52,970 |
| 15        | 51,290 | 50,350 | 49,190 | 48,270 | 59,500 | 69,360 | 63,490  | 54,180 | 50,820 | 55,170 | 53,550 | 52,970 |
| 16        | 51,290 | 50,350 | 49,190 | 48,270 | 60,010 | 69,360 | 62,940  | 54,430 | 51,770 | 55,170 | 53,700 | 52,970 |
| 17        | 51,290 | 50,350 | 49,190 | 48,270 | 60,540 | 69,360 | 62,140  | 54,670 | 52,480 | 54,920 | 53,700 | 52,720 |
| 18        | 51,290 | 50,350 | 49,190 | 48,040 | 61,340 | 69,360 | 60,810  | 54,920 | 53,210 | 54,920 | 53,700 | 52,720 |
| 19        | 51,060 | 50,110 | 49,190 | 48,040 | 61,870 | 69,360 | 59,500  | 55,420 | 53,940 | 54,670 | 53,700 | 52,720 |
| 20        | 51,060 | 50,110 | 49,190 | 48,040 | 62,140 | 69,360 | 58,200  | 55,420 | 54,430 | 54,670 | 53,700 | 52,720 |
| 21        | 51,060 | 50,110 | 49,190 | 48,040 | 62,670 | 69,360 | 56,930  | 55,420 | 54,920 | 54,670 | 53,550 | 52,480 |
| 22        | 51,060 | 50,110 | 49,190 | 48,040 | 62,940 | 69,650 | 56,170  | 55,670 | 55,670 | 54,430 | 53,550 | 52,480 |
| 23        | 51,060 | 50,110 | 49,190 | 48,040 | 63,490 | 69,650 | 55,420  | 55,670 | 55,920 | 54,430 | 53,550 | 52,480 |
| 24        | 51,060 | 50,110 | 49,190 | 48,040 | 64,040 | 69,650 | 54,920  | 55,670 | 56,170 | 54,430 | 53,550 | 52,480 |
| 25        | 51,060 | 50,110 | 49,190 | 48,040 | 65,400 | 69,650 | 54,970  | 55,670 | 56,170 | 54,430 | 53,550 | 52,480 |
| 26        | 50,820 | 49,880 | 48,500 | 48,040 | 65,960 | 69,650 | 54,430  | 55,670 | 56,170 | 54,180 | 53,550 | 52,480 |
| 27        | 50,820 | 49,880 | 48,730 | 48,730 | 66,810 | 69,360 | 54,430  | 55,420 | 56,170 | 54,180 | 53,550 | 52,480 |
| 28        | 50,820 | 49,880 | 48,730 | 49,420 | 67,370 | 69,360 | 54,430  | 55,170 | 56,170 | 54,180 | 53,210 | 52,480 |
| 29        | 50,820 | 49,880 | 48,730 | 49,880 | 67,930 | 69,360 | 54,180  | 54,670 | 56,170 | 54,180 | 53,210 | 52,240 |
| 30        | 50,580 | -----  | 48,730 | 50,350 | 68,500 | 69,360 | 53,940  | 53,940 | 55,920 | 53,940 | 53,210 | 52,240 |
| 31        | 50,580 | -----  | 48,730 | -----  | 69,080 | -----  | 53,700  | 52,970 | -----  | 53,940 | -----  | 52,240 |
| MAX       | 51,530 | 50,580 | 49,880 | 50,350 | 69,080 | 69,650 | 69,080  | 55,670 | 56,170 | 55,920 | 53,940 | 53,210 |
| MIN       | 50,580 | 49,880 | 48,500 | 48,040 | 51,060 | 69,080 | 53,700  | 51,060 | 48,270 | 53,940 | 53,210 | 52,240 |
| CHANGE    | -950   | -700   | -1,150 | 1,620  | 18,730 | 280    | -15,660 | -730   | 2,950  | -1,980 | -730   | -970   |
| YEAR 1996 |        |        | MEAN   | 54,748 | MAX    | 69,650 | MIN     | 48,040 |        |        |        |        |

# PLATTE RIVER BASIN ( LOUP RIVER )

FARWELL "MAIN" CANAL from Sherman Reservoir, 00048000 - 1996

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

GAGE.--Continuous stage recorder and six orifice gates

PERIOD OF RECORD.--1964 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL    | AUG    | SEP   | OCT | NOV | DEC |
|-----------|-----|-------|-----|-------|-------|--------|--------|--------|-------|-----|-----|-----|
| 1         |     |       |     |       | 0     | 73     | 164    | 426    | 404   |     |     |     |
| 2         |     |       |     |       | 0     | 72     | 231    | 417    | 412   |     |     |     |
| 3         |     |       |     |       | 0     | 72     | 320    | 375    | 417   |     |     |     |
| 4         |     |       |     |       | 0     | 73     | 387    | 360    | 400   |     |     |     |
| 5         |     |       |     |       | 0     | 72     | 449    | 312    | 378   |     |     |     |
| 6         |     |       |     |       | 0     | 71     | 491    | 206    | 333   |     |     |     |
| 7         |     |       |     |       | 0     | 86     | 500    | 156    | 236   |     |     |     |
| 8         |     |       |     |       | 0     | 102    | 227    | 99     | 208   |     |     |     |
| 9         |     |       |     |       | 0     | 106    | 94     | 90     | 128   |     |     |     |
| 10        |     |       |     |       | 0     | 119    | 92     | 97     | 63    |     |     |     |
| 11        |     |       |     |       | 0     | 128    | 108    | 98     | 68    |     |     |     |
| 12        |     |       |     |       | 0     | 128    | 159    | 103    | 17    |     |     |     |
| 13        |     |       |     |       | 0     | 137    | 246    | 109    | 0     |     |     |     |
| 14        |     |       |     |       | 0     | 147    | 270    | 135    | 0     |     |     |     |
| 15        |     |       |     |       | 0     | 149    | 411    | 163    | 0     |     |     |     |
| 16        |     |       |     |       | 0     | 149    | 498    | 158    | 0     |     |     |     |
| 17        |     |       |     |       | 0     | 149    | 515    | 92     | 0     |     |     |     |
| 18        |     |       |     |       | 0     | 149    | 509    | 71     | 0     |     |     |     |
| 19        |     |       |     |       | 0     | 153    | 490    | 66     | 0     |     |     |     |
| 20        |     |       |     |       | 0     | 154    | 432    | 65     | 0     |     |     |     |
| 21        |     |       |     |       | 0     | 154    | 417    | 65     | 0     |     |     |     |
| 22        |     |       |     |       | 0     | 154    | 368    | 65     | 0     |     |     |     |
| 23        |     |       |     |       | 0     | 153    | 312    | 69     | 0     |     |     |     |
| 24        |     |       |     |       | 0     | 151    | 260    | 74     | 0     |     |     |     |
| 25        |     |       |     |       | 0     | 149    | 230    | 73     | 0     |     |     |     |
| 26        |     |       |     |       | 0     | 147    | 212    | 83     | 0     |     |     |     |
| 27        |     |       |     |       | 0     | 145    | 200    | 121    | 0     |     |     |     |
| 28        |     |       |     |       | 0     | 143    | 200    | 189    | 0     |     |     |     |
| 29        |     |       |     |       | 0     | 139    | 255    | 254    | 0     |     |     |     |
| 30        |     | ----- |     |       | 0     | 139    | 326    | 347    | 0     |     |     |     |
| 31        |     | ----- |     | ----- | 47    | -----  | 399    | 396    | ----- |     |     |     |
| TOTAL     |     |       |     |       | 47    | 3,763  | 9,772  | 5,334  | 3,084 |     |     |     |
| MEAN      |     |       |     |       | 1.52  | 125    | 315    | 172    | 103   |     |     |     |
| MAX       |     |       |     |       | 47    | 154    | 515    | 426    | 417   |     |     |     |
| MIN       |     |       |     |       | 0     | 71     | 92     | 65     | 0     |     |     |     |
| AC-FT     |     |       |     |       | 93    | 7,460  | 19,380 | 10,580 | 6,120 |     |     |     |
| YEAR 1996 | MAX | 515   | MIN | 0     | AC-FT | 43,640 |        |        |       |     |     |     |

# PLATTE RIVER BASIN (LOUP RIVER)

FARWELL "SOUTH" CANAL from Sherman Reservoir, 00049000 - 1996

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

GAGE.--Continuous stage recorder and four orifice gates

PERIOD OF RECORD.--1965 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 61     | 78    | 208   | 239   |     |       |     |
| 2         |     |       |     |       | 0     | 61     | 107   | 211   | 232   |     |       |     |
| 3         |     |       |     |       | 0     | 60     | 166   | 200   | 239   |     |       |     |
| 4         |     |       |     |       | 0     | 60     | 223   | 200   | 232   |     |       |     |
| 5         |     |       |     |       | 0     | 60     | 243   | 145   | 228   |     |       |     |
| 6         |     |       |     |       | 0     | 61     | 256   | 88    | 213   |     |       |     |
| 7         |     |       |     |       | 0     | 78     | 256   | 68    | 179   |     |       |     |
| 8         |     |       |     |       | 0     | 85     | 103   | 48    | 167   |     |       |     |
| 9         |     |       |     |       | 0     | 85     | 44    | 43    | 129   |     |       |     |
| 10        |     |       |     |       | 0     | 84     | 41    | 47    | 86    |     |       |     |
| 11        |     |       |     |       | 0     | 84     | 41    | 47    | 68    |     |       |     |
| 12        |     |       |     |       | 0     | 84     | 47    | 52    | 16    |     |       |     |
| 13        |     |       |     |       | 0     | 84     | 61    | 52    | 0     |     |       |     |
| 14        |     |       |     |       | 0     | 84     | 65    | 54    | 0     |     |       |     |
| 15        |     |       |     |       | 0     | 84     | 111   | 60    | 0     |     |       |     |
| 16        |     |       |     |       | 0     | 84     | 193   | 58    | 0     |     |       |     |
| 17        |     |       |     |       | 0     | 85     | 251   | 43    | 0     |     |       |     |
| 18        |     |       |     |       | 0     | 84     | 279   | 38    | 0     |     |       |     |
| 19        |     |       |     |       | 0     | 85     | 292   | 35    | 0     |     |       |     |
| 20        |     |       |     |       | 0     | 85     | 275   | 33    | 0     |     |       |     |
| 21        |     |       |     |       | 0     | 83     | 268   | 36    | 0     |     |       |     |
| 22        |     |       |     |       | 0     | 77     | 228   | 35    | 0     |     |       |     |
| 23        |     |       |     |       | 0     | 74     | 197   | 33    | 0     |     |       |     |
| 24        |     |       |     |       | 0     | 72     | 171   | 37    | 0     |     |       |     |
| 25        |     |       |     |       | 0     | 72     | 147   | 40    | 0     |     |       |     |
| 26        |     |       |     |       | 0     | 72     | 130   | 67    | 0     |     |       |     |
| 27        |     |       |     |       | 0     | 72     | 119   | 96    | 0     |     |       |     |
| 28        |     |       |     |       | 0     | 70     | 116   | 153   | 0     |     |       |     |
| 29        |     |       |     |       | 0     | 73     | 131   | 203   | 0     |     |       |     |
| 30        |     | ----- |     |       | 0     | 74     | 148   | 240   | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 38    | -----  | 189   | 243   | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 38    | 2,277  | 4,976 | 2,913 | 2,028 |     |       |     |
| MEAN      |     |       |     |       | 1.23  | 75.9   | 161   | 94.0  | 67.6  |     |       |     |
| MAX       |     |       |     |       | 38    | 85     | 292   | 243   | 239   |     |       |     |
| MIN       |     |       |     |       | 0     | 60     | 41    | 33    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 75    | 4,520  | 9,870 | 5,780 | 4,020 |     |       |     |
| YEAR 1996 | MAX | 292   | MIN | 0     | AC-FT | 24,260 |       |       |       |     |       |     |

# PLATTE RIVER BASIN (LOUP RIVER)

**TURKEY CREEK near Dannebrog, 06784800 - 1996**

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

DRAINAGE AREA.--66.2 square miles.

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

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

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1993.  
E indicates estimated daily discharge. Estimated daily discharge January 1-February 9, 15-16, 27-March 9, 19-20, 24-31, December 17-29. Records good except estimated record poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 396 cubic feet per second August 20, gage height 11.31 feet, minimum daily discharge 7.6 cubic feet per second estimated January 31.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB     | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|---------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 9.0E  | 8.0E    | 9.0E  | 17    | 12    | 26    | 18    | 25    | 31    | 9.2    | 12    | 20    |
| 2         | 9.0E  | 7.8E    | 9.6E  | 18    | 12    | 24    | 17    | 29    | 31    | 9.4    | 12    | 15    |
| 3         | 8.8E  | 8.2E    | 10 E  | 17    | 12    | 18    | 18    | 35    | 31    | 9.1    | 12    | 14    |
| 4         | 8.4E  | 8.4E    | 10 E  | 16    | 13    | 17    | 22    | 37    | 30    | 9.3    | 14    | 14    |
| 5         | 8.0E  | 10 E    | 9.0E  | 13    | 12    | 16    | 24    | 74    | 29    | 9.4    | 13    | 14    |
| 6         | 9.0E  | 12 E    | 8.4E  | 13    | 12    | 16    | 27    | 72    | 29    | 9.7    | 13    | 14    |
| 7         | 9.6E  | 14 E    | 8.0E  | 13    | 12    | 16    | 45    | 40    | 39    | 9.2    | 12    | 14    |
| 8         | 10 E  | 25 E    | 9.0E  | 13    | 12    | 15    | 139   | 24    | 42    | 9.4    | 12    | 13    |
| 9         | 11 E  | 35 E    | 10 E  | 13    | 12    | 15    | 60    | 19    | 33    | 9.2    | 12    | 13    |
| 10        | 11 E  | 42      | 11    | 13    | 12    | 15    | 23    | 17    | 27    | 9.0    | 12    | 14    |
| 11        | 11 E  | 23      | 12    | 13    | 12    | 14    | 23    | 20    | 18    | 9.2    | 11    | 14    |
| 12        | 11 E  | 15      | 12    | 13    | 11    | 14    | 21    | 26    | 16    | 9.2    | 12    | 14    |
| 13        | 10 E  | 14      | 12    | 12    | 12    | 13    | 21    | 16    | 16    | 9.2    | 12    | 13    |
| 14        | 10 E  | 15      | 12    | 13    | 12    | 13    | 19    | 15    | 15    | 8.9    | 12    | 13    |
| 15        | 9.4E  | 13 E    | 12    | 13    | 12    | 13    | 21    | 13    | 15    | 9.7    | 14    | 13    |
| 16        | 9.0E  | 12 E    | 12    | 13    | 13    | 27    | 31    | 20    | 14    | 9.6    | 169   | 12    |
| 17        | 8.6E  | 12      | 11    | 13    | 12    | 17    | 34    | 22    | 13    | 10     | 92    | 11 E  |
| 18        | 8.2E  | 12      | 12    | 13    | 12    | 15    | 32    | 15    | 11    | 10     | 24    | 10 E  |
| 19        | 8.0E  | 13      | 11 E  | 12    | 11    | 15    | 36    | 139   | 34    | 10     | 21    | 9.4E  |
| 20        | 8.4E  | 13      | 11 E  | 15    | 10    | 15    | 51    | 224   | 80    | 11     | 22    | 11 E  |
| 21        | 9.0E  | 13      | 12    | 14    | 10    | 15    | 46    | 36    | 20    | 10     | 23    | 10 E  |
| 22        | 9.2E  | 13      | 12    | 13    | 9.8   | 16    | 43    | 28    | 13    | 9.5    | 19    | 9.4E  |
| 23        | 8.8E  | 13      | 12    | 12    | 9.9   | 33    | 41    | 25    | 11    | 10     | 18    | 9.0E  |
| 24        | 8.8E  | 12      | 11 E  | 12    | 10    | 33    | 32    | 23    | 10    | 10     | 18    | 6.6E  |
| 25        | 8.6E  | 12      | 9.6E  | 12    | 35    | 17    | 26    | 22    | 10    | 10     | 15    | 9.2E  |
| 26        | 8.6E  | 11      | 10 E  | 12    | 53    | 17    | 24    | 21    | 10    | 11     | 14    | 9.0E  |
| 27        | 8.2E  | 10 E    | 11 E  | 12    | 138   | 17    | 23    | 20    | 10    | 11     | 14    | 9.2E  |
| 28        | 8.8E  | 9.4E    | 13 E  | 12    | 96    | 17    | 21    | 19    | 11    | 11     | 14    | 9.4E  |
| 29        | 8.4E  | 9.4E    | 14 E  | 13    | 26    | 17    | 21    | 20    | 9.5   | 11     | 17    | 9.0E  |
| 30        | 7.8E  | -----   | 15 E  | 12    | 21    | 17    | 20    | 23    | 9.3   | 12     | 21    | 11    |
| 31        | 7.6E  | -----   | 16 E  | ----- | 22    | ----- | 21    | 25    | ----- | 12     | ----- | 11    |
| TOTAL     | 281.2 | 415.2   | 346.6 | 400   | 668.7 | 533   | 1,000 | 1,144 | 667.8 | 307.2  | 686   | 370.2 |
| MEAN      | 9.07  | 14.3    | 11.2  | 13.3  | 21.6  | 17.8  | 32.3  | 36.9  | 22.3  | 9.91   | 22.9  | 11.9  |
| MAX       | 11    | 42      | 16    | 18    | 138   | 33    | 139   | 224   | 80    | 12     | 169   | 20    |
| MIN       | 7.6   | 7.8     | 8.0   | 12    | 9.8   | 13    | 17    | 13    | 9.3   | 8.9    | 11    | 8.6   |
| AC-FT     | 558   | 824     | 687   | 793   | 1,330 | 1,060 | 1,980 | 2,270 | 1,320 | 609    | 1,360 | 734   |
| YEAR 1996 | TOTAL | 6,819.9 | MEAN  | 18.6  | MAX   | 224   | MIN   | 7.6   | AC-FT | 13,530 |       |       |



# PLATTE RIVER BASIN (LOUP RIVER)

TAYLOR-ORD CANAL from North Loup River, 00107000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1939 - present

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL    | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|--------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 37     | 140    | 180   | 129   |     |       |     |
| 2         |     |       |     |       | 0     | 40     | 161    | 180   | 127   |     |       |     |
| 3         |     |       |     |       | 0     | 42     | 191    | 182   | 143   |     |       |     |
| 4         |     |       |     |       | 0     | 42     | 197    | 183   | 161   |     |       |     |
| 5         |     |       |     |       | 0     | 43     | 198    | 157   | 168   |     |       |     |
| 6         |     |       |     |       | 57    | 48     | 196    | 134   | 174   |     |       |     |
| 7         |     |       |     |       | 102   | 43     | 197    | 126   | 171   |     |       |     |
| 8         |     |       |     |       | 57    | 46     | 189    | 129   | 134   |     |       |     |
| 9         |     |       |     |       | 60    | 46     | 194    | 130   | 110   |     |       |     |
| 10        |     |       |     |       | 55    | 47     | 193    | 130   | 77    |     |       |     |
| 11        |     |       |     |       | 61    | 50     | 195    | 117   | 84    |     |       |     |
| 12        |     |       |     |       | 58    | 45     | 190    | 118   | 79    |     |       |     |
| 13        |     |       |     |       | 57    | 35     | 190    | 119   | 76    |     |       |     |
| 14        |     |       |     |       | 56    | 35     | 190    | 120   | 66    |     |       |     |
| 15        |     |       |     |       | 48    | 47     | 187    | 120   | 65    |     |       |     |
| 16        |     |       |     |       | 52    | 55     | 190    | 107   | 60    |     |       |     |
| 17        |     |       |     |       | 46    | 44     | 185    | 66    | 57    |     |       |     |
| 18        |     |       |     |       | 50    | 44     | 182    | 66    | 48    |     |       |     |
| 19        |     |       |     |       | 46    | 45     | 183    | 70    | 39    |     |       |     |
| 20        |     |       |     |       | 49    | 46     | 188    | 73    | 0     |     |       |     |
| 21        |     |       |     |       | 49    | 47     | 187    | 76    | 0     |     |       |     |
| 22        |     |       |     |       | 44    | 56     | 186    | 75    | 0     |     |       |     |
| 23        |     |       |     |       | 43    | 55     | 181    | 68    | 0     |     |       |     |
| 24        |     |       |     |       | 50    | 66     | 171    | 66    | 0     |     |       |     |
| 25        |     |       |     |       | 51    | 79     | 168    | 67    | 0     |     |       |     |
| 26        |     |       |     |       | 49    | 82     | 177    | 72    | 0     |     |       |     |
| 27        |     |       |     |       | 51    | 104    | 168    | 102   | 0     |     |       |     |
| 28        |     |       |     |       | 48    | 117    | 155    | 100   | 0     |     |       |     |
| 29        |     |       |     |       | 38    | 121    | 161    | 111   | 0     |     |       |     |
| 30        |     | ----- |     |       | 39    | 122    | 164    | 117   | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 42    | -----  | 175    | 128   | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 1,362 | 1,729  | 5,629  | 3,489 | 1,968 |     |       |     |
| MEAN      |     |       |     |       | 43.9  | 57.6   | 182    | 113   | 65.6  |     |       |     |
| MAX       |     |       |     |       | 102   | 122    | 198    | 183   | 174   |     |       |     |
| MIN       |     |       |     |       | 0     | 35     | 140    | 66    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 2,700 | 3,430  | 11,170 | 6,920 | 3,900 |     |       |     |
| YEAR 1996 | MAX | 198   | MIN | 0     | AC-FT | 28,120 |        |       |       |     |       |     |

# PLATTE RIVER BASIN (LOUP RIVER)

TAYLOR-ORD CANAL inlet to Mirdan Canal, 00107100 - 1996

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

GAGE.--Continuous stage recorder and modified Parshall flume

PERIOD OF RECORD.--1989 - present

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP     | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|---------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 27     | 99    | 120   | 74      |     |       |     |
| 2         |     |       |     |       | 0     | 24     | 113   | 113   | 70      |     |       |     |
| 3         |     |       |     |       | 0     | 27     | 127   | 118   | 76      |     |       |     |
| 4         |     |       |     |       | 0     | 28     | 137   | 120   | 92      |     |       |     |
| 5         |     |       |     |       | 0     | 30     | 134   | 121   | 101     |     |       |     |
| 6         |     |       |     |       | 0     | 33     | 132   | 106   | 105     |     |       |     |
| 7         |     |       |     |       | 29    | 31     | 136   | 110   | 113     |     |       |     |
| 8         |     |       |     |       | 60    | 30     | 129   | 114   | 107     |     |       |     |
| 9         |     |       |     |       | 38    | 31     | 128   | 117   | 87      |     |       |     |
| 10        |     |       |     |       | 39    | 31     | 128   | 122   | 48      |     |       |     |
| 11        |     |       |     |       | 39    | 32     | 132   | 111   | 47      |     |       |     |
| 12        |     |       |     |       | 44    | 35     | 132   | 92    | 49      |     |       |     |
| 13        |     |       |     |       | 43    | 23     | 124   | 90    | 50      |     |       |     |
| 14        |     |       |     |       | 36    | 14     | 123   | 88    | 44      |     |       |     |
| 15        |     |       |     |       | 34    | 19     | 122   | 87    | 47      |     |       |     |
| 16        |     |       |     |       | 25    | 35     | 122   | 84    | 46      |     |       |     |
| 17        |     |       |     |       | 20    | 41     | 121   | 54    | 47      |     |       |     |
| 18        |     |       |     |       | 18    | 28     | 118   | 55    | 32      |     |       |     |
| 19        |     |       |     |       | 21    | 27     | 121   | 50    | 31      |     |       |     |
| 20        |     |       |     |       | 18    | 30     | 123   | 49    | 9.0     |     |       |     |
| 21        |     |       |     |       | 22    | 27     | 127   | 53    | 2.5     |     |       |     |
| 22        |     |       |     |       | 23    | 32     | 130   | 53    | 0       |     |       |     |
| 23        |     |       |     |       | 21    | 40     | 139   | 51    | 0       |     |       |     |
| 24        |     |       |     |       | 25    | 41     | 139   | 49    | 0       |     |       |     |
| 25        |     |       |     |       | 35    | 54     | 136   | 48    | 0       |     |       |     |
| 26        |     |       |     |       | 31    | 67     | 141   | 42    | 0       |     |       |     |
| 27        |     |       |     |       | 40    | 71     | 142   | 59    | 0       |     |       |     |
| 28        |     |       |     |       | 38    | 89     | 133   | 61    | 0       |     |       |     |
| 29        |     |       |     |       | 29    | 94     | 128   | 61    | 0       |     |       |     |
| 30        |     | ----- |     |       | 23    | 96     | 115   | 63    | 0       |     |       |     |
| 31        |     | ----- |     | ----- | 31    | -----  | 117   | 71    | -----   |     | ----- |     |
| TOTAL     |     |       |     |       | 782   | 1,187  | 3,948 | 2,532 | 1,277.5 |     |       |     |
| MEAN      |     |       |     |       | 25.2  | 39.6   | 127   | 81.7  | 42.6    |     |       |     |
| MAX       |     |       |     |       | 60    | 96     | 142   | 122   | 113     |     |       |     |
| MIN       |     |       |     |       | 0     | 14     | 99    | 42    | 0       |     |       |     |
| AC-FT     |     |       |     |       | 1,550 | 2,350  | 7,830 | 5,020 | 2,530   |     |       |     |
| YEAR 1996 | MAX | 142   | MIN | 0     | AC-FT | 19,290 |       |       |         |     |       |     |

# PLATTE RIVER BASIN (LOUP RIVER)

TAYLOR-ORD CANAL outlet from Mirdan Canal, 00107200 - 1996

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

GAGE.--Continuous stage recorder and modified Parshall flume

PERIOD OF RECORD.--1989 - present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 31     | 65    | 81    | 55    |     |       |     |
| 2         |     |       |     |       | 0     | 26     | 70    | 77    | 60    |     |       |     |
| 3         |     |       |     |       | 0     | 26     | 79    | 75    | 58    |     |       |     |
| 4         |     |       |     |       | 0     | 29     | 76    | 76    | 66    |     |       |     |
| 5         |     |       |     |       | 0     | 13     | 80    | 81    | 66    |     |       |     |
| 6         |     |       |     |       | 0     | 21     | 81    | 83    | 63    |     |       |     |
| 7         |     |       |     |       | 40    | 30     | 81    | 74    | 67    |     |       |     |
| 8         |     |       |     |       | 44    | 29     | 82    | 69    | 77    |     |       |     |
| 9         |     |       |     |       | 41    | 30     | 82    | 73    | 81    |     |       |     |
| 10        |     |       |     |       | 37    | 30     | 83    | 75    | 55    |     |       |     |
| 11        |     |       |     |       | 36    | 30     | 86    | 74    | 40    |     |       |     |
| 12        |     |       |     |       | 41    | 32     | 89    | 60    | 49    |     |       |     |
| 13        |     |       |     |       | 41    | 28     | 86    | 51    | 44    |     |       |     |
| 14        |     |       |     |       | 37    | 19     | 84    | 48    | 30    |     |       |     |
| 15        |     |       |     |       | 36    | 16     | 82    | 45    | 24    |     |       |     |
| 16        |     |       |     |       | 28    | 28     | 79    | 47    | 26    |     |       |     |
| 17        |     |       |     |       | 23    | 43     | 80    | 51    | 24    |     |       |     |
| 18        |     |       |     |       | 20    | 39     | 79    | 54    | 25    |     |       |     |
| 19        |     |       |     |       | 20    | 30     | 79    | 56    | 32    |     |       |     |
| 20        |     |       |     |       | 19    | 29     | 78    | 53    | 12    |     |       |     |
| 21        |     |       |     |       | 20    | 31     | 90    | 52    | 0     |     |       |     |
| 22        |     |       |     |       | 24    | 29     | 80    | 53    | 0     |     |       |     |
| 23        |     |       |     |       | 24    | 35     | 82    | 50    | 0     |     |       |     |
| 24        |     |       |     |       | 25    | 38     | 84    | 48    | 0     |     |       |     |
| 25        |     |       |     |       | 32    | 47     | 86    | 48    | 0     |     |       |     |
| 26        |     |       |     |       | 33    | 56     | 87    | 46    | 0     |     |       |     |
| 27        |     |       |     |       | 37    | 60     | 86    | 48    | 0     |     |       |     |
| 28        |     |       |     |       | 38    | 67     | 85    | 55    | 0     |     |       |     |
| 29        |     |       |     |       | 34    | 69     | 86    | 53    | 0     |     |       |     |
| 30        |     | ----- |     |       | 28    | 67     | 84    | 52    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 29    | -----  | 80    | 47    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 787   | 1,058  | 2,521 | 1,855 | 954   |     |       |     |
| MEAN      |     |       |     |       | 25.4  | 35.3   | 81.3  | 59.8  | 31.8  |     |       |     |
| MAX       |     |       |     |       | 44    | 69     | 89    | 83    | 81    |     |       |     |
| MIN       |     |       |     |       | 0     | 13     | 65    | 45    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 1,560 | 2,100  | 5,000 | 3,680 | 1,890 |     |       |     |
| YEAR 1996 | MAX | 89    | MIN | 0     | AC-FT | 14,230 |       |       |       |     |       |     |

**PLATTE RIVER BASIN  
( LOUP RIVER )**

**KENT CANAL from North Loup River, 00076500 - 1996**

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

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

PERIOD OF RECORD.--1995 - present

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL | AUG | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-----|-----|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 273   |       |     |     |       |     |       |     |
| 2         |     |       |     | 0     | 286   |       |     |     |       |     |       |     |
| 3         |     |       |     | 0     | 282   |       |     |     |       |     |       |     |
| 4         |     |       |     | 0     | 284   |       |     |     |       |     |       |     |
| 5         |     |       |     | 0     | 283   |       |     |     |       |     |       |     |
| 6         |     |       |     | 0     | 128   |       |     |     |       |     |       |     |
| 7         |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 8         |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 9         |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 10        |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 11        |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 12        |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 13        |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 14        |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 15        |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 16        |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 17        |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 18        |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 19        |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 20        |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 21        |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| 22        |     |       |     | 31    | 0     |       |     |     |       |     |       |     |
| 23        |     |       |     | 74    | 0     |       |     |     |       |     |       |     |
| 24        |     |       |     | 81    | 0     |       |     |     |       |     |       |     |
| 25        |     |       |     | 126   | 0     |       |     |     |       |     |       |     |
| 26        |     |       |     | 158   | 0     |       |     |     |       |     |       |     |
| 27        |     |       |     | 152   | 0     |       |     |     |       |     |       |     |
| 28        |     |       |     | 160   | 0     |       |     |     |       |     |       |     |
| 29        |     |       |     | 215   | 0     |       |     |     |       |     |       |     |
| 30        |     |       |     | 258   | 0     |       |     |     |       |     |       |     |
| 31        |     | ----- |     | ----- | 0     | ----- |     |     | ----- |     | ----- |     |
| TOTAL     |     |       |     | 1,255 | 1,536 |       |     |     |       |     |       |     |
| MEAN      |     |       |     | 41.8  | 49.5  |       |     |     |       |     |       |     |
| MAX       |     |       |     | 258   | 286   |       |     |     |       |     |       |     |
| MIN       |     |       |     | 0     | 0     |       |     |     |       |     |       |     |
| AC-FT     |     |       |     | 2,490 | 3,050 |       |     |     |       |     |       |     |
| YEAR 1996 | MAX | 286   | MIN | 0     | AC-FT | 5,540 |     |     |       |     |       |     |



# PLATTE RIVER BASIN (LOUP RIVER)

MIRDAN CANAL from Calamus Reservoir, 00100500 - 1996

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

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

PERIOD OF RECORD.--1987 - present

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY    | JUN    | JUL    | AUG    | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|--------|--------|--------|--------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0      | 321    | 231    | 539    | 267   |     |       |     |
| 2         |     |       |     |       | 0      | 329    | 385    | 521    | 277   |     |       |     |
| 3         |     |       |     |       | 0      | 333    | 411    | 456    | 355   |     |       |     |
| 4         |     |       |     |       | 0      | 333    | 434    | 441    | 413   |     |       |     |
| 5         |     |       |     |       | 0      | 334    | 446    | 380    | 387   |     |       |     |
| 6         |     |       |     |       | 152    | 277    | 415    | 234    | 345   |     |       |     |
| 7         |     |       |     |       | 331    | 211    | 407    | 186    | 277   |     |       |     |
| 8         |     |       |     |       | 303    | 218    | 403    | 197    | 259   |     |       |     |
| 9         |     |       |     |       | 298    | 227    | 366    | 225    | 250   |     |       |     |
| 10        |     |       |     |       | 304    | 218    | 369    | 265    | 246   |     |       |     |
| 11        |     |       |     |       | 322    | 214    | 411    | 272    | 248   |     |       |     |
| 12        |     |       |     |       | 322    | 197    | 411    | 267    | 248   |     |       |     |
| 13        |     |       |     |       | 311    | 185    | 424    | 270    | 246   |     |       |     |
| 14        |     |       |     |       | 307    | 173    | 425    | 273    | 228   |     |       |     |
| 15        |     |       |     |       | 301    | 172    | 477    | 271    | 209   |     |       |     |
| 16        |     |       |     |       | 300    | 174    | 516    | 270    | 202   |     |       |     |
| 17        |     |       |     |       | 299    | 173    | 538    | 218    | 188   |     |       |     |
| 18        |     |       |     |       | 317    | 167    | 545    | 206    | 171   |     |       |     |
| 19        |     |       |     |       | 316    | 170    | 543    | 205    | 47    |     |       |     |
| 20        |     |       |     |       | 310    | 171    | 531    | 150    | 0     |     |       |     |
| 21        |     |       |     |       | 311    | 171    | 528    | 131    | 0     |     |       |     |
| 22        |     |       |     |       | 318    | 173    | 525    | 123    | 0     |     |       |     |
| 23        |     |       |     |       | 321    | 173    | 493    | 125    | 0     |     |       |     |
| 24        |     |       |     |       | 321    | 166    | 450    | 131    | 0     |     |       |     |
| 25        |     |       |     |       | 315    | 160    | 426    | 131    | 0     |     |       |     |
| 26        |     |       |     |       | 310    | 143    | 412    | 130    | 0     |     |       |     |
| 27        |     |       |     |       | 301    | 139    | 390    | 140    | 0     |     |       |     |
| 28        |     |       |     |       | 295    | 139    | 386    | 148    | 0     |     |       |     |
| 29        |     |       |     |       | 306    | 138    | 448    | 149    | 0     |     |       |     |
| 30        |     | ----- |     |       | 318    | 137    | 485    | 177    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 319    | -----  | 531    | 232    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 7,928  | 6,136  | 13,762 | 7,463  | 4,863 |     |       |     |
| MEAN      |     |       |     |       | 256    | 205    | 444    | 241    | 162   |     |       |     |
| MAX       |     |       |     |       | 331    | 334    | 545    | 539    | 413   |     |       |     |
| MIN       |     |       |     |       | 0      | 137    | 231    | 123    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 15,730 | 12,170 | 27,300 | 14,800 | 9,650 |     |       |     |
| YEAR 1996 | MAX | 545   | MIN | 0     | AC-FT  | 79,640 |        |        |       |     |       |     |

# PLATTE RIVER BASIN (LOUP RIVER)

CALAMUS FISH HATCHERY INLET from Calamus Reservoir, 00019800 - 1996

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

GAGE.--Flow meter

PERIOD OF RECORD.--1994 - present

REMARKS.--Values furnished by Nebraska Game & Parks Commission.  
E indicates estimated daily discharge.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB     | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   |
|-----------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1         | 6.0   | 12      | 6.6   | 5.1   | 1.6   | 3.5   | 8.0   | 4.5   | 6.0   | 8.2   | 3.3   | 3.5   |
| 2         | 5.9   | 13      | 6.6   | 5.8   | 1.6   | 4.0E  | 7.6   | 4.4   | 6.0   | 7.9   | 3.3   | 3.4   |
| 3         | 5.8   | 13      | 6.7   | 7.7   | 1.7   | 4.0E  | 6.0   | 5.0   | 5.6   | 7.5   | 3.3   | 3.4   |
| 4         | 5.7   | 13      | 6.6   | 6.2   | 1.7   | 4.0E  | 6.0   | 4.7   | 4.9   | 5.3   | 3.3   | 3.4   |
| 5         | 5.4   | 11      | 6.6   | 6.0   | 1.6   | 4.0E  | 5.9   | 3.9   | 4.5   | 5.3   | 3.4   | 3.5   |
| 6         | 4.5   | 7.8     | 6.6   | 6.2   | 3.2   | 5.4   | 6.0   | 4.7   | 4.4   | 5.3   | 3.8   | 3.3   |
| 7         | 3.8   | 8.1     | 6.0   | 6.1   | 5.5   | 1.8   | 5.2   | 4.6   | 4.3   | 5.3   | 3.4   | 3.4   |
| 8         | 3.7   | 7.4     | 6.5   | 6.0   | 6.3   | 1.8   | 7.1   | 4.6   | 4.4   | 5.3   | 3.4   | 3.4   |
| 9         | 3.8   | 6.2     | 6.6   | 5.2   | 8.5   | 4.5   | 8.5   | 4.5   | 4.2   | 5.3   | 3.4   | 3.4   |
| 10        | 3.8   | 7.0     | 6.7   | 4.1   | 7.0E  | 2.4   | 6.0   | 4.5   | 3.8   | 5.3   | 3.4   | 3.4   |
| 11        | 3.7   | 7.8     | 5.2   | 3.9   | 7.0E  | 3.7   | 5.5   | 4.6   | 3.9   | 5.3   | 3.4   | 3.3   |
| 12        | 4.3   | 6.5     | 3.6   | 4.4   | 7.0E  | 9.7   | 5.6   | 4.5   | 4.1   | 5.3   | 3.4   | 3.4   |
| 13        | 5.8   | 6.5     | 6.7   | 4.4   | 7.0E  | 11    | 4.6   | 4.5   | 3.8   | 5.3   | 3.4   | 3.4   |
| 14        | 6.3   | 6.4     | 6.3   | 4.3   | 7.0E  | 11    | 5.4   | 5.0   | 4.0   | 5.3   | 3.4   | 3.4   |
| 15        | 5.3   | 6.4     | 6.8   | 2.7   | 7.0E  | 10    | 5.8   | 5.4   | 4.4   | 5.3   | 3.4   | 3.4   |
| 16        | 5.2   | 7.1     | 6.8   | 1.3   | 7.0E  | 7.5   | 5.6   | 5.5   | 5.4   | 5.3   | 3.4   | 3.4   |
| 17        | 6.2   | 7.5     | 6.9   | 1.9   | 6.4   | 5.9   | 5.5   | 5.7   | 6.0   | 5.3   | 3.4   | 3.4   |
| 18        | 7.5   | 6.9     | 6.6   | 3.7   | 3.8   | 5.0   | 5.9   | 5.6   | 6.3   | 5.3   | 3.4   | 3.4   |
| 19        | 7.2   | 7.4     | 6.6   | 3.5   | 1.1   | 5.3   | 5.9   | 5.7   | 6.2   | 5.3   | 3.4   | 3.4   |
| 20        | 8.8   | 7.3     | 5.9   | 3.8   | 1.1   | 6.4   | 5.7   | 5.7   | 6.3   | 5.3   | 3.4   | 3.4   |
| 21        | 8.4   | 7.2     | 6.1   | 5.4   | 1.4   | 6.1   | 4.9   | 5.6   | 6.2   | 5.3   | 3.4   | 3.3   |
| 22        | 8.5   | 7.2     | 6.0   | 9.4   | 1.5   | 6.6   | 5.6   | 6.1   | 6.0   | 5.3   | 3.5   | 3.3   |
| 23        | 9.5   | 7.2     | 5.7   | 14    | 1.1   | 7.9   | 6.3   | 6.2   | 6.1   | 5.3   | 3.4   | 3.4   |
| 24        | 9.6   | 7.1     | 5.6   | 12    | 1.2   | 7.2   | 6.5   | 7.0   | 5.3   | 5.3   | 3.4   | 3.3   |
| 25        | 9.3   | 6.9     | 5.5   | 3.1   | 1.2   | 8.7   | 4.9   | 7.1   | 5.6   | 5.3   | 3.4   | 3.3   |
| 26        | 9.3   | 6.8     | 5.0   | 1.4   | 1.5   | 6.6   | 5.1   | 7.9   | 9.2   | 5.3   | 3.4   | 3.3   |
| 27        | 9.5   | 6.8     | 4.6   | 1.5   | 2.3   | 6.5   | 5.1   | 7.9   | 7.8   | 5.3   | 3.4   | 3.4   |
| 28        | 11    | 6.7     | 5.5   | 2.2   | 2.3   | 7.0   | 5.4   | 6.3   | 2.9   | 3.4   | 3.4   | 3.4   |
| 29        | 10    | 6.7     | 5.5   | 1.9   | 3.5   | 7.9   | 5.5   | 6.2   | 2.9   | 3.3   | 3.4   | 3.3   |
| 30        | 11    | -----   | 5.2   | 2.2   | 3.4   | 9.6   | 4.9   | 6.2   | 6.6   | 3.4   | 3.3   | 3.3   |
| 31        | 11    | -----   | 5.2   | ----- | 3.5   | ----- | 4.6   | 6.0   | ----- | 3.3   | ----- | 3.3   |
| TOTAL     | 215.8 | 230.9   | 186.8 | 145.4 | 116.0 | 185.0 | 180.6 | 170.3 | 157.1 | 164.2 | 102.0 | 104.6 |
| MEAN      | 6.96  | 7.96    | 6.03  | 4.85  | 3.74  | 6.17  | 5.83  | 5.49  | 5.24  | 5.30  | 3.40  | 3.37  |
| MAX       | 11    | 13      | 6.9   | 14    | 8.5   | 11    | 8.5   | 7.9   | 9.2   | 8.2   | 3.8   | 3.5   |
| MIN       | 3.7   | 6.2     | 3.6   | 1.3   | 1.1   | 1.8   | 4.6   | 3.9   | 2.9   | 3.3   | 3.3   | 3.3   |
| AC-FT     | 428   | 458     | 371   | 288   | 230   | 367   | 358   | 338   | 312   | 326   | 202   | 207   |
| YEAR 1996 | TOTAL | 1,958.7 | MEAN  | 5.35  | MAX   | 14    | MIN   | 1.1   | AC-FT | 3,890 |       |       |

# PLATTE RIVER BASIN ( LOUP RIVER )

INLET TO DAVIS CREEK RESERVOIR from Mirdan Canal, 00088500 - 1996

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

GAGE.--Continuous stage recorder and modified Parshall Flume

PERIOD OF RECORD.--1991 to present

DAILY DISCHARGE IN CUBIC-FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY    | JUN    | JUL    | AUG   | SEP     | OCT | NOV | DEC |
|-----------|-----|-------|-----|-------|--------|--------|--------|-------|---------|-----|-----|-----|
| 1         |     |       |     | 0     | 209    | 230    | 51     | 177   | 63      |     |     |     |
| 2         |     |       |     | 0     | 223    | 231    | 110    | 191   | 50      |     |     |     |
| 3         |     |       |     | 0     | 227    | 231    | 132    | 196   | 73      |     |     |     |
| 4         |     |       |     | 0     | 227    | 233    | 108    | 203   | 64      |     |     |     |
| 5         |     |       |     | 0     | 225    | 232    | 108    | 218   | 65      |     |     |     |
| 6         |     |       |     | 0     | 230    | 200    | 111    | 164   | 69      |     |     |     |
| 7         |     |       |     | 0     | 229    | 151    | 134    | 150   | 108     |     |     |     |
| 8         |     |       |     | 0     | 226    | 133    | 154    | 143   | 128     |     |     |     |
| 9         |     |       |     | 0     | 227    | 130    | 155    | 168   | 134     |     |     |     |
| 10        |     |       |     | 0     | 228    | 123    | 158    | 184   | 131     |     |     |     |
| 11        |     |       |     | 0     | 227    | 121    | 196    | 215   | 113     |     |     |     |
| 12        |     |       |     | 0     | 226    | 110    | 203    | 224   | 110     |     |     |     |
| 13        |     |       |     | 0     | 226    | 102    | 201    | 217   | 118     |     |     |     |
| 14        |     |       |     | 0     | 227    | 102    | 188    | 215   | 128     |     |     |     |
| 15        |     |       |     | 0     | 227    | 103    | 184    | 213   | 134     |     |     |     |
| 16        |     |       |     | 0     | 228    | 104    | 175    | 220   | 138     |     |     |     |
| 17        |     |       |     | 0     | 227    | 104    | 182    | 183   | 136     |     |     |     |
| 18        |     |       |     | 0     | 225    | 90     | 181    | 147   | 133     |     |     |     |
| 19        |     |       |     | 0     | 223    | 77     | 177    | 104   | 92      |     |     |     |
| 20        |     |       |     | 0     | 226    | 68     | 172    | 66    | 43      |     |     |     |
| 21        |     |       |     | 0     | 227    | 78     | 182    | 47    | 40      |     |     |     |
| 22        |     |       |     | 0     | 229    | 79     | 190    | 42    | 39      |     |     |     |
| 23        |     |       |     | 0     | 229    | 81     | 224    | 44    | 41      |     |     |     |
| 24        |     |       |     | 0     | 230    | 81     | 239    | 44    | 40      |     |     |     |
| 25        |     |       |     | 0     | 233    | 80     | 222    | 42    | 40      |     |     |     |
| 26        |     |       |     | 78    | 235    | 66     | 186    | 41    | 24      |     |     |     |
| 27        |     |       |     | 129   | 237    | 62     | 196    | 39    | 16      |     |     |     |
| 28        |     |       |     | 120   | 235    | 60     | 194    | 36    | 19      |     |     |     |
| 29        |     |       |     | 142   | 234    | 55     | 197    | 29    | 16      |     |     |     |
| 30        |     | ----- |     | 192   | 231    | 53     | 194    | 27    | 8.7     |     |     |     |
| 31        |     | ----- |     | ----- | 229    | -----  | 183    | 51    | -----   |     |     |     |
| TOTAL     |     |       |     | 661   | 7,062  | 3,570  | 5,287  | 4,040 | 2,313.7 |     |     |     |
| MEAN      |     |       |     | 22.0  | 228    | 119    | 171    | 130   | 77.1    |     |     |     |
| MAX       |     |       |     | 192   | 237    | 233    | 239    | 224   | 138     |     |     |     |
| MIN       |     |       |     | 0     | 209    | 53     | 51     | 27    | 8.7     |     |     |     |
| AC-FT     |     |       |     | 1,310 | 14,010 | 7,080  | 10,490 | 8,010 | 4,590   |     |     |     |
| YEAR 1996 | MAX | 239   | MIN | 0     | AC-FT  | 45,490 |        |       |         |     |     |     |



# PLATTE RIVER BASIN (LOUP RIVER)

DAVIS CREEK RESERVOIR from Calamus Reservoir via Mirdan Canal, 06789400 - 1996

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1992 to present

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

### DAILY CONTENTS IN ACRE-FEET FOR 1996

| Day       | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1         | 18,270 | 17,650 | 17,160 | 16,600 | 17,340 | 27,900 | 31,120 | 27,670 | 29,380 | 29,680 | 28,140 | 27,280 |
| 2         | 18,250 | 17,620 | 17,140 | 16,590 | 17,710 | 28,190 | 31,080 | 27,400 | 29,180 | 29,620 | 28,130 | 27,260 |
| 3         | 18,220 | 17,610 | 17,120 | 16,570 | 18,040 | 28,490 | 31,010 | 27,270 | 28,870 | 29,570 | 28,080 | 27,240 |
| 4         | 18,200 | 17,600 | 17,110 | 16,550 | 18,410 | 28,760 | 30,770 | 27,290 | 28,680 | 29,540 | 28,050 | 27,220 |
| 5         | 18,170 | 17,600 | 17,090 | 16,530 | 18,790 | 29,060 | 30,300 | 27,460 | 28,310 | 29,500 | 28,020 | 27,200 |
| 6         | 18,150 | 17,600 | 17,070 | 16,510 | 19,080 | 29,450 | 29,970 | 27,680 | 28,050 | 29,470 | 27,990 | 27,190 |
| 7         | 18,140 | 17,590 | 17,050 | 16,480 | 19,460 | 29,670 | 29,680 | 27,890 | 27,960 | 29,460 | 27,970 | 27,170 |
| 8         | 18,120 | 17,590 | 17,020 | 16,450 | 19,800 | 29,790 | 29,500 | 28,040 | 28,060 | 29,390 | 27,960 | 27,150 |
| 9         | 18,110 | 17,550 | 17,000 | 16,440 | 20,160 | 29,910 | 29,350 | 28,270 | 28,260 | 29,350 | 27,950 | 27,120 |
| 10        | 18,100 | 17,530 | 16,990 | 16,420 | 20,480 | 30,010 | 29,200 | 28,280 | 28,320 | 29,290 | 27,900 | 27,050 |
| 11        | 18,080 | 17,500 | 16,970 | 16,400 | 20,860 | 30,110 | 29,120 | 28,720 | 28,480 | 29,260 | 27,860 | 26,990 |
| 12        | 18,060 | 17,480 | 16,960 | 16,370 | 21,080 | 30,230 | 29,110 | 28,900 | 28,560 | 29,210 | 27,860 | 26,960 |
| 13        | 18,040 | 17,470 | 16,950 | 16,340 | 21,520 | 30,300 | 29,170 | 28,080 | 28,630 | 29,150 | 27,840 | 26,940 |
| 14        | 18,010 | 17,460 | 16,930 | 16,310 | 21,850 | 30,360 | 29,220 | 29,320 | 28,760 | 29,100 | 27,810 | 26,910 |
| 15        | 18,000 | 17,430 | 16,920 | 16,290 | 22,220 | 30,460 | 29,760 | 29,470 | 28,910 | 29,040 | 27,790 | 26,880 |
| 16        | 17,980 | 17,410 | 16,900 | 16,250 | 22,550 | 30,560 | 29,020 | 29,670 | 29,100 | 28,980 | 27,760 | 26,840 |
| 17        | 17,960 | 17,400 | 16,880 | 16,240 | 22,900 | 30,680 | 28,610 | 30,000 | 29,240 | 28,930 | 27,740 | 26,800 |
| 18        | 17,950 | 17,390 | 16,860 | 16,210 | 23,200 | 30,750 | 28,340 | 30,230 | 29,400 | 28,790 | 27,710 | 26,770 |
| 19        | 17,940 | 17,380 | 16,830 | 16,200 | 23,480 | 30,810 | 28,000 | 30,370 | 29,640 | 28,720 | 27,690 | 26,680 |
| 20        | 17,920 | 17,370 | 16,810 | 16,190 | 23,770 | 30,840 | 27,810 | 30,400 | 29,760 | 28,700 | 27,670 | 26,650 |
| 21        | 17,910 | 17,350 | 16,790 | 16,180 | 24,100 | 30,950 | 27,710 | 30,340 | 29,760 | 28,660 | 27,620 | 26,620 |
| 22        | 17,890 | 17,340 | 16,780 | 16,180 | 24,340 | 30,990 | 27,650 | 30,330 | 29,790 | 28,640 | 27,570 | 26,590 |
| 23        | 17,870 | 17,340 | 16,760 | 16,160 | 24,620 | 31,040 | 27,660 | 30,290 | 29,810 | 28,610 | 27,540 | 26,560 |
| 24        | 17,840 | 17,310 | 16,750 | 16,140 | 25,000 | 31,060 | 27,950 | 30,230 | 29,810 | 28,560 | 27,520 | 26,530 |
| 25        | 17,810 | 17,290 | 16,740 | 16,110 | 25,470 | 31,110 | 28,140 | 30,210 | 29,840 | 28,500 | 27,500 | 26,500 |
| 26        | 17,790 | 17,270 | 16,720 | 16,150 | 25,870 | 31,160 | 28,300 | 30,190 | 29,840 | 28,450 | 27,470 | 26,460 |
| 27        | 17,770 | 17,240 | 16,700 | 16,240 | 26,350 | 31,190 | 28,400 | 30,140 | 29,820 | 28,400 | 27,430 | 26,430 |
| 28        | 17,740 | 17,200 | 16,680 | 16,440 | 26,570 | 31,190 | 28,450 | 30,080 | 29,800 | 28,330 | 27,400 | 26,400 |
| 29        | 17,720 | 17,180 | 16,650 | 16,720 | 26,890 | 31,180 | 28,570 | 29,960 | 29,780 | 28,280 | 27,360 | 26,370 |
| 30        | 17,700 | -----  | 16,640 | 17,050 | 27,210 | 31,150 | 28,200 | 29,740 | 29,740 | 28,220 | 27,320 | 26,342 |
| 31        | 17,670 | -----  | 16,620 | -----  | 27,540 | -----  | 27,980 | 29,580 | -----  | 28,190 | -----  | 26,310 |
| MAX       | 18,270 | 17,650 | 17,160 | 17,050 | 27,540 | 31,190 | 31,120 | 30,400 | 29,840 | 29,680 | 28,140 | 27,280 |
| MIN       | 17,670 | 17,180 | 16,620 | 16,110 | 17,340 | 27,900 | 27,650 | 27,270 | 27,960 | 28,190 | 27,320 | 26,310 |
| CHANGE    | -620   | -470   | -580   | 430    | 10,490 | 3,610  | -3,170 | 1,600  | 160    | -1,550 | -870   | -1,010 |
| YEAR 1996 |        |        | MEAN   | 24,372 | MAX    | 31,190 | MIN    | 16,110 |        |        |        |        |

# PLATTE RIVER BASIN (LOUP RIVER)

FULLERTON CANAL from Davis Creek Reservoir, 00054700 - 1996

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

GAGE.--Continuous stage recorder

PERIOD OF RECORD.--1992 to present

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL    | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|--------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 16    | 40     | 44     | 284   | 125   |     |       |     |
| 2         |     |       |     |       | 27    | 40     | 98     | 244   | 150   |     |       |     |
| 3         |     |       |     |       | 27    | 40     | 174    | 183   | 159   |     |       |     |
| 4         |     |       |     |       | 26    | 34     | 229    | 170   | 175   |     |       |     |
| 5         |     |       |     |       | 26    | 33     | 252    | 114   | 166   |     |       |     |
| 6         |     |       |     |       | 26    | 35     | 265    | 55    | 129   |     |       |     |
| 7         |     |       |     |       | 26    | 35     | 238    | 43    | 65    |     |       |     |
| 8         |     |       |     |       | 27    | 35     | 187    | 46    | 50    |     |       |     |
| 9         |     |       |     |       | 27    | 36     | 171    | 59    | 35    |     |       |     |
| 10        |     |       |     |       | 27    | 36     | 172    | 75    | 26    |     |       |     |
| 11        |     |       |     |       | 27    | 36     | 172    | 75    | 26    |     |       |     |
| 12        |     |       |     |       | 28    | 36     | 148    | 75    | 26    |     |       |     |
| 13        |     |       |     |       | 27    | 36     | 137    | 75    | 26    |     |       |     |
| 14        |     |       |     |       | 37    | 35     | 138    | 99    | 26    |     |       |     |
| 15        |     |       |     |       | 40    | 33     | 216    | 108   | 26    |     |       |     |
| 16        |     |       |     |       | 40    | 33     | 288    | 67    | 26    |     |       |     |
| 17        |     |       |     |       | 40    | 33     | 292    | 33    | 26    |     |       |     |
| 18        |     |       |     |       | 40    | 28     | 292    | 31    | 26    |     |       |     |
| 19        |     |       |     |       | 40    | 26     | 277    | 31    | 11    |     |       |     |
| 20        |     |       |     |       | 40    | 27     | 203    | 31    | 0     |     |       |     |
| 21        |     |       |     |       | 40    | 27     | 185    | 31    | 0     |     |       |     |
| 22        |     |       |     |       | 40    | 27     | 169    | 30    | 0     |     |       |     |
| 23        |     |       |     |       | 41    | 27     | 93     | 30    | 0     |     |       |     |
| 24        |     |       |     |       | 41    | 26     | 94     | 30    | 0     |     |       |     |
| 25        |     |       |     |       | 41    | 25     | 106    | 30    | 0     |     |       |     |
| 26        |     |       |     |       | 41    | 25     | 108    | 30    | 0     |     |       |     |
| 27        |     |       |     |       | 41    | 25     | 123    | 35    | 0     |     |       |     |
| 28        |     |       |     |       | 41    | 25     | 129    | 57    | 0     |     |       |     |
| 29        |     |       |     |       | 40    | 25     | 210    | 84    | 0     |     |       |     |
| 30        |     |       |     |       | 39    | 24     | 281    | 95    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 40    | -----  | 301    | 119   | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 1,059 | 943    | 5,792  | 2,469 | 1,299 |     |       |     |
| MEAN      |     |       |     |       | 34.2  | 31.4   | 187    | 79.6  | 43.3  |     |       |     |
| MAX       |     |       |     |       | 41    | 40     | 301    | 284   | 175   |     |       |     |
| MIN       |     |       |     |       | 16    | 24     | 44     | 30    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 2,100 | 1,870  | 11,490 | 4,900 | 2,580 |     |       |     |
| YEAR 1996 | MAX | 301   | MIN | 0     | AC-FT | 22,930 |        |       |       |     |       |     |

# PLATTE RIVER BASIN (LOUP RIVER)

**CALAMUS RIVER near Burwell, 06787500 - 1996**

LOCATION.--NW1/4NW1/4 Sec. 9-21-16 W., Garfield County, Lat. 41° 48' 37", Long. 98° 10' 58", 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.

E indicates estimated daily discharge. Estimated record January 1-2, March 24-26. Records good except estimated record are fair.

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 993 cubic feet per second May 31, gage height 4.64 feet; minimum daily discharge 54 cubic feet per second November 10-11.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT     | NOV   | DEC    |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|-------|--------|
| 1         | 300E   | 277    | 276    | 117    | 331    | 951    | 270    | 315    | 336    | 328     | 57    | 56     |
| 2         | 310E   | 282    | 274    | 123    | 332    | 690    | 265    | 329    | 338    | 188     | 58    | 56     |
| 3         | 327    | 283    | 301    | 121    | 362    | 365    | 257    | 342    | 334    | 143     | 59    | 135    |
| 4         | 322    | 288    | 322    | 119    | 368    | 200    | 258    | 342    | 329    | 100     | 59    | 218    |
| 5         | 322    | 289    | 319    | 120    | 378    | 144    | 260    | 354    | 329    | 84      | 60    | 234    |
| 6         | 299    | 337    | 313    | 121    | 295    | 209    | 259    | 359    | 329    | 82      | 58    | 274    |
| 7         | 279    | 366    | 288    | 120    | 156    | 261    | 256    | 353    | 327    | 61      | 57    | 295    |
| 8         | 280    | 364    | 274    | 121    | 118    | 245    | 254    | 337    | 328    | 77      | 58    | 299    |
| 9         | 308    | 366    | 276    | 120    | 108    | 242    | 273    | 330    | 328    | 77      | 56    | 301    |
| 10        | 320    | 392    | 281    | 122    | 98     | 224    | 280    | 341    | 330    | 79      | 54    | 318    |
| 11        | 322    | 407    | 250    | 128    | 72     | 210    | 293    | 339    | 328    | 207     | 54    | 331    |
| 12        | 327    | 409    | 132    | 128    | 67     | 225    | 291    | 337    | 327    | 384     | 55    | 334    |
| 13        | 331    | 411    | 124    | 122    | 99     | 211    | 288    | 338    | 324    | 445     | 56    | 334    |
| 14        | 326    | 437    | 124    | 125    | 86     | 188    | 289    | 332    | 322    | 454     | 57    | 330    |
| 15        | 325    | 443    | 124    | 124    | 73     | 188    | 292    | 334    | 326    | 445     | 57    | 327    |
| 16        | 331    | 443    | 124    | 118    | 77     | 186    | 290    | 336    | 330    | 345     | 59    | 327    |
| 17        | 319    | 445    | 123    | 117    | 99     | 189    | 290    | 335    | 328    | 182     | 58    | 320    |
| 18        | 311    | 450    | 118    | 123    | 105    | 231    | 290    | 337    | 332    | 99      | 55    | 321    |
| 19        | 313    | 424    | 115    | 171    | 115    | 311    | 280    | 337    | 348    | 76      | 56    | 317    |
| 20        | 316    | 406    | 112    | 262    | 84     | 365    | 277    | 334    | 503    | 74      | 63    | 312    |
| 21        | 318    | 434    | 118    | 354    | 69     | 372    | 276    | 336    | 600    | 71      | 67    | 313    |
| 22        | 303    | 446    | 116    | 386    | 69     | 346    | 275    | 335    | 647    | 68      | 68    | 309    |
| 23        | 300    | 446    | 117    | 364    | 69     | 299    | 274    | 336    | 666    | 67      | 69    | 306    |
| 24        | 292    | 448    | 117E   | 343    | 73     | 225    | 271    | 339    | 652    | 68      | 104   | 310    |
| 25        | 289    | 443    | 117E   | 387    | 143    | 178    | 271    | 346    | 651    | 69      | 70    | 313    |
| 26        | 292    | 419    | 116E   | 299    | 197    | 173    | 283    | 345    | 502    | 70      | 67    | 314    |
| 27        | 295    | 378    | 115    | 277    | 567    | 173    | 325    | 341    | 468    | 67      | 67    | 274    |
| 28        | 306    | 333    | 115    | 295    | 837    | 173    | 327    | 337    | 483    | 64      | 62    | 292    |
| 29        | 315    | 293    | 116    | 327    | 596    | 233    | 325    | 335    | 482    | 61      | 58    | 326    |
| 30        | 312    | -----  | 113    | 335    | 634    | 268    | 318    | 335    | 492    | 55      | 55    | 329    |
| 31        | 284    | -----  | 113    | -----  | 945    | -----  | 314    | 333    | -----  | 56      | ----- | 341    |
| TOTAL     | 9,594  | 11,159 | 5,543  | 5,989  | 7,622  | 8,275  | 8,771  | 10,479 | 12,419 | 4,666   | 1,831 | 8,866  |
| MEAN      | 309    | 385    | 179    | 200    | 246    | 276    | 283    | 338    | 414    | 151     | 61.0  | 286    |
| MAX       | 331    | 450    | 322    | 387    | 945    | 951    | 327    | 359    | 666    | 454     | 104   | 341    |
| MIN       | 279    | 277    | 112    | 117    | 67     | 144    | 254    | 315    | 322    | 55      | 54    | 56     |
| AC-FT     | 19,030 | 22,130 | 10,990 | 11,880 | 15,120 | 16,410 | 17,400 | 20,790 | 24,630 | 9,260   | 3,630 | 17,590 |
| YEAR 1996 | TOTAL  | 95,214 | MEAN   | 260    | MAX    | 951    | MIN    | 54     | AC-FT  | 188,900 |       |        |

# PLATTE RIVER BASIN (LOUP RIVER)

BURWELL-SUMTER CANAL from North Loup River, 00108000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1939 - present

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

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-----|-----|
| 1         |     |       |     |       | 47    | 30     | 78    | 107   | 69    |     |     |     |
| 2         |     |       |     |       | 73    | 29     | 85    | 103   | 69    |     |     |     |
| 3         |     |       |     |       | 62    | 30     | 95    | 101   | 69    |     |     |     |
| 4         |     |       |     |       | 53    | 20     | 100   | 101   | 68    |     |     |     |
| 5         |     |       |     |       | 50    | 33     | 100   | 94    | 68    |     |     |     |
| 6         |     |       |     |       | 49    | 30     | 99    | 77    | 68    |     |     |     |
| 7         |     |       |     |       | 48    | 28     | 98    | 66    | 65    |     |     |     |
| 8         |     |       |     |       | 48    | 28     | 98    | 63    | 70    |     |     |     |
| 9         |     |       |     |       | 43    | 27     | 99    | 64    | 70    |     |     |     |
| 10        |     |       |     |       | 35    | 23     | 101   | 80    | 70    |     |     |     |
| 11        |     |       |     |       | 36    | 11     | 102   | 68    | 70    |     |     |     |
| 12        |     |       |     |       | 37    | 31     | 100   | 62    | 70    |     |     |     |
| 13        |     |       |     |       | 36    | 30     | 101   | 60    | 70    |     |     |     |
| 14        |     |       |     |       | 35    | 29     | 100   | 59    | 70    |     |     |     |
| 15        |     |       |     |       | 34    | 29     | 104   | 56    | 69    |     |     |     |
| 16        |     |       |     |       | 34    | 31     | 109   | 53    | 64    |     |     |     |
| 17        |     |       |     |       | 34    | 39     | 112   | 45    | 54    |     |     |     |
| 18        |     |       |     |       | 33    | 46     | 112   | 44    | 51    |     |     |     |
| 19        |     |       |     |       | 33    | 47     | 113   | 41    | 42    |     |     |     |
| 20        |     |       |     |       | 33    | 50     | 115   | 41    | 0     |     |     |     |
| 21        |     |       |     |       | 34    | 52     | 116   | 42    | 0     |     |     |     |
| 22        |     |       |     |       | 35    | 52     | 114   | 42    | 0     |     |     |     |
| 23        |     |       |     |       | 42    | 53     | 112   | 42    | 0     |     |     |     |
| 24        |     |       |     |       | 43    | 54     | 114   | 49    | 0     |     |     |     |
| 25        |     |       |     |       | 43    | 60     | 112   | 59    | 0     |     |     |     |
| 26        |     |       |     |       | 42    | 60     | 112   | 66    | 0     |     |     |     |
| 27        |     |       |     |       | 46    | 66     | 113   | 72    | 0     |     |     |     |
| 28        |     |       |     |       | 35    | 73     | 110   | 71    | 0     |     |     |     |
| 29        |     |       |     |       | 34    | 74     | 110   | 71    | 0     |     |     |     |
| 30        |     | ----- |     |       | 36    | 73     | 113   | 70    | 0     |     |     |     |
| 31        |     | ----- |     | ----- | 39    | -----  | 110   | 70    | ----- |     |     |     |
| TOTAL     |     |       |     |       | 1,282 | 1,238  | 3,257 | 2,039 | 1,246 |     |     |     |
| MEAN      |     |       |     |       | 41.4  | 41.3   | 105   | 65.8  | 41.5  |     |     |     |
| MAX       |     |       |     |       | 73    | 74     | 116   | 107   | 70    |     |     |     |
| MIN       |     |       |     |       | 33    | 11     | 78    | 41    | 0     |     |     |     |
| AC-FT     |     |       |     |       | 2,540 | 2,460  | 6,460 | 4,040 | 2,470 |     |     |     |
| YEAR 1996 | MAX | 116   | MIN | 0     | AC-FT | 17,970 |       |       |       |     |     |     |

# PLATTE RIVER BASIN ( LOUP RIVER )

**NORTH LOUP RIVER at Ord, 06788500 - 1996**

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

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

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

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

REMARKS.--Record published by U. S. Geological Survey up to Oct. 1, 1994.  
 E indicates estimated daily discharge. Estimated discharges January 1-February 19, February 27-March 2, March 25-28, November 17, 24-25, December 17-31. Records good except for estimated records, which are poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 3,660 cubic feet per second September 19, gage height 4.15 feet; maximum gage height 5.76 feet February 16 due to backwater from ice; minimum daily discharge 180 cubic feet per second estimated December 18.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT     | NOV    | DEC    |
|-----------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1         | 870E   | 1,250E  | 1,200E | 1,110  | 901    | 2,760  | 737    | 782    | 856    | 1,320   | 765    | 892    |
| 2         | 860E   | 1,240E  | 1,150E | 1,030  | 781    | 2,250  | 662    | 827    | 880    | 946     | 696    | 803    |
| 3         | 830E   | 1,250E  | 1,140  | 1,090  | 866    | 1,630  | 603    | 818    | 892    | 935     | 719    | 765    |
| 4         | 810E   | 1,260E  | 1,240  | 1,170  | 942    | 1,190  | 575    | 908    | 852    | 833     | 756    | 892    |
| 5         | 820E   | 1,280E  | 1,370  | 1,130  | 906    | 886    | 564    | 1,000  | 833    | 755     | 789    | 929    |
| 6         | 810E   | 1,300E  | 1,310  | 1,080  | 864    | 1,030  | 621    | 1,060  | 804    | 768     | 826    | 1,040  |
| 7         | 820E   | 1,450E  | 1,220  | 1,060  | 837    | 1,220  | 605    | 1,140  | 845    | 764     | 812    | 1,080  |
| 8         | 940E   | 1,600E  | 1,050  | 1,070  | 779    | 1,050  | 591    | 946    | 874    | 766     | 743    | 1,040  |
| 9         | 1,140E | 1,700E  | 988    | 1,040  | 788    | 925    | 641    | 861    | 974    | 720     | 725    | 1,030  |
| 10        | 1,320E | 1,730E  | 995    | 980    | 819    | 847    | 641    | 946    | 979    | 727     | 664    | 1,020  |
| 11        | 1,430E | 1,750E  | 1,070  | 906    | 822    | 824    | 646    | 1,650  | 936    | 760     | 663    | 1,160  |
| 12        | 1,410E | 1,800E  | 1,070  | 951    | 870    | 795    | 669    | 1,080  | 934    | 1,050   | 699    | 1,190  |
| 13        | 1,370E | 1,850E  | 1,070  | 829    | 848    | 820    | 638    | 860    | 936    | 1,290   | 673    | 1,290  |
| 14        | 1,340E | 1,890E  | 1,080  | 869    | 880    | 766    | 627    | 845    | 942    | 1,270   | 677    | 1,280  |
| 15        | 1,360E | 1,900E  | 1,040  | 899    | 760    | 785    | 598    | 876    | 941    | 1,220   | 716    | 1,200  |
| 16        | 1,350E | 1,980E  | 1,060  | 876    | 770    | 874    | 624    | 1,370  | 948    | 1,220   | 789    | 1,090  |
| 17        | 1,340E | 1,960E  | 1,070  | 799    | 727    | 1,340  | 670    | 1,170  | 959    | 1,100   | 570E   | 820E   |
| 18        | 1,280E | 1,920E  | 1,020  | 830    | 757    | 1,340  | 646    | 1,020  | 983    | 966     | 579    | 180E   |
| 19        | 1,320E | 1,860E  | 950    | 919    | 741    | 1,200  | 629    | 1,050  | 2,460  | 873     | 708    | 630E   |
| 20        | 1,320E | 1,840   | 876    | 1,150  | 764    | 1,320  | 617    | 1,010  | 2,540  | 769     | 869    | 880E   |
| 21        | 1,310E | 1,690   | 894    | 1,250  | 704    | 1,340  | 619    | 999    | 2,030  | 793     | 987    | 870E   |
| 22        | 1,290E | 1,620   | 863    | 1,310  | 687    | 1,250  | 654    | 1,000  | 1,960  | 869     | 909    | 860E   |
| 23        | 1,260E | 1,610   | 891    | 1,140  | 693    | 1,130  | 684    | 1,050  | 1,920  | 852     | 766    | 860E   |
| 24        | 1,250E | 1,750   | 869    | 968    | 719    | 986    | 718    | 981    | 1,880  | 828     | 600E   | 850E   |
| 25        | 1,240E | 1,800   | 850E   | 974    | 986    | 714    | 712    | 941    | 1,850  | 832     | 575E   | 850E   |
| 26        | 1,220E | 1,620   | 950E   | 869    | 1,190  | 709    | 679    | 921    | 1,690  | 870     | 541    | 860E   |
| 27        | 1,210E | 1,550E  | 1,050E | 777    | 2,550  | 656    | 741    | 910    | 1,420  | 892     | 678    | 860E   |
| 28        | 1,220E | 1,400E  | 1,120E | 811    | 3,130  | 580    | 808    | 883    | 1,440  | 879     | 893    | 870E   |
| 29        | 1,230E | 1,250E  | 1,200  | 1,040  | 2,540  | 608    | 759    | 883    | 1,340  | 841     | 1,170  | 890E   |
| 30        | 1,230E | -----   | 1,070  | 870    | 2,190  | 741    | 767    | 891    | 1,380  | 818     | 1,070  | 910E   |
| 31        | 1,250E | -----   | 1,030  | -----  | 2,970  | -----  | 750    | 880    | -----  | 799     | -----  | 940E   |
| TOTAL     | 36,450 | 47,100  | 32,756 | 29,797 | 34,781 | 32,566 | 20,495 | 30,458 | 38,278 | 28,325  | 22,627 | 29,831 |
| MEAN      | 1,176  | 1,624   | 1,057  | 993    | 1,122  | 1,086  | 661    | 983    | 1,276  | 914     | 754    | 930    |
| MAX       | 1,430  | 1,980   | 1,370  | 1,310  | 3,130  | 2,760  | 808    | 1,650  | 2,540  | 1,320   | 1,170  | 1,290  |
| MIN       | 810    | 1,240   | 850    | 777    | 687    | 580    | 564    | 782    | 804    | 720     | 541    | 180    |
| AC-FT     | 72,300 | 93,420  | 64,970 | 59,100 | 68,990 | 64,590 | 40,650 | 60,410 | 75,920 | 56,180  | 44,880 | 57,190 |
| YEAR 1996 | TOTAL  | 382,464 | MEAN   | 1,045  | MAX    | 3,130  | MIN    | 180    | AC-FT  | 758,600 |        |        |

# PLATTE RIVER BASIN ( LOUP RIVER )

ORD-NORTH LOUP CANAL from North Loup River, 00109000 - 1996

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

GAGE.--Continuous stage recorder and concrete flume

PERIOD OF RECORD.--1939 - prdsent

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

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       | 0     | 24     | 57    | 103   | 64    |     |       |     |
| 2         |     |       |     |       | 0     | 22     | 73    | 100   | 66    |     |       |     |
| 3         |     |       |     |       | 0     | 22     | 77    | 100   | 67    |     |       |     |
| 4         |     |       |     |       | 0     | 22     | 82    | 98    | 67    |     |       |     |
| 5         |     |       |     |       | 0     | 23     | 88    | 73    | 68    |     |       |     |
| 6         |     |       |     |       | 12    | 24     | 89    | 45    | 68    |     |       |     |
| 7         |     |       |     |       | 12    | 24     | 61    | 45    | 72    |     |       |     |
| 8         |     |       |     |       | 14    | 25     | 62    | 44    | 57    |     |       |     |
| 9         |     |       |     |       | 39    | 25     | 63    | 43    | 39    |     |       |     |
| 10        |     |       |     |       | 23    | 25     | 64    | 49    | 37    |     |       |     |
| 11        |     |       |     |       | 12    | 25     | 65    | 48    | 36    |     |       |     |
| 12        |     |       |     |       | 12    | 25     | 65    | 41    | 36    |     |       |     |
| 13        |     |       |     |       | 12    | 25     | 65    | 44    | 35    |     |       |     |
| 14        |     |       |     |       | 13    | 25     | 66    | 45    | 34    |     |       |     |
| 15        |     |       |     |       | 14    | 25     | 77    | 46    | 32    |     |       |     |
| 16        |     |       |     |       | 15    | 26     | 101   | 48    | 31    |     |       |     |
| 17        |     |       |     |       | 15    | 25     | 106   | 40    | 30    |     |       |     |
| 18        |     |       |     |       | 16    | 24     | 103   | 37    | 13    |     |       |     |
| 19        |     |       |     |       | 17    | 25     | 102   | 36    | 0     |     |       |     |
| 20        |     |       |     |       | 24    | 25     | 102   | 36    | 0     |     |       |     |
| 21        |     |       |     |       | 29    | 25     | 103   | 36    | 0     |     |       |     |
| 22        |     |       |     |       | 29    | 25     | 104   | 36    | 0     |     |       |     |
| 23        |     |       |     |       | 29    | 25     | 103   | 36    | 0     |     |       |     |
| 24        |     |       |     |       | 28    | 25     | 104   | 36    | 0     |     |       |     |
| 25        |     |       |     |       | 28    | 26     | 100   | 36    | 0     |     |       |     |
| 26        |     |       |     |       | 28    | 28     | 94    | 35    | 0     |     |       |     |
| 27        |     |       |     |       | 29    | 31     | 90    | 36    | 0     |     |       |     |
| 28        |     |       |     |       | 28    | 37     | 86    | 42    | 0     |     |       |     |
| 29        |     |       |     |       | 21    | 39     | 86    | 47    | 0     |     |       |     |
| 30        |     | ----- |     |       | 28    | 44     | 89    | 52    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 26    | -----  | 98    | 60    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       | 553   | 791    | 2,625 | 1,573 | 852   |     |       |     |
| MEAN      |     |       |     |       | 17.8  | 26.4   | 84.7  | 50.7  | 28.4  |     |       |     |
| MAX       |     |       |     |       | 39    | 44     | 106   | 103   | 72    |     |       |     |
| MIN       |     |       |     |       | 0     | 22     | 57    | 35    | 0     |     |       |     |
| AC-FT     |     |       |     |       | 1,100 | 1,570  | 5,210 | 3,120 | 1,690 |     |       |     |
| YEAR 1996 | MAX | 106   | MIN | 0     | AC-FT | 12,680 |       |       |       |     |       |     |

# PLATTE RIVER BASIN (LOUP RIVER)

**MIRA CREEK near North Loup, 06788898 - 1996**

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

DRAINAGE AREA.--Undetermined

GAGE.--Continuous stage recorder. Gage datum is 1,964.41 feet above sea level.

PERIOD OF RECORD.--1979 - present

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

E indicates estimated daily discharge. Estimated records January 30-February 23, March 24-26. Records good, except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 467 cubic feet per second August 11, gage height 4.55 feet; minimum daily discharge 0.84 cubic feet per second January 21.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB      | MAR  | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   |
|-----------|-------|----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1         | 2.4   | 1.4E     | 4.9  | 4.5   | 2.4   | 46    | 5.5   | 13    | 5.1   | 5.2   | 1.4   | 5.0   |
| 2         | 2.7   | 1.4E     | 4.3  | 4.5   | 2.3   | 28    | 5.8   | 13    | 5.7   | 5.0   | 1.5   | 4.3   |
| 3         | 3.3   | 1.7E     | 4.0  | 3.4   | 2.7   | 17    | 5.7   | 12    | 7.3   | 5.3   | 1.6   | 4.2   |
| 4         | 2.5   | 2.1E     | 4.1  | 3.0   | 2.8   | 12    | 5.7   | 11    | 7.2   | 5.5   | 1.8   | 3.7   |
| 5         | 2.0   | 2.5E     | 3.0  | 2.9   | 2.6   | 9.4   | 5.8   | 5.1   | 9.0   | 5.2   | 1.6   | 3.3   |
| 6         | 2.0   | 3.2E     | 3.2  | 2.6   | 2.7   | 9.2   | 12    | 43    | 10    | 4.3   | 1.6   | 3.1   |
| 7         | 2.1   | 3.4E     | 4.5  | 3.0   | 3.0   | 7.1   | 39    | 34    | 12    | 3.8   | 1.6   | 3.0   |
| 8         | 2.4   | 3.4E     | 4.2  | 2.6   | 3.2   | 6.5   | 31    | 22    | 13    | 3.3   | 1.5   | 3.0   |
| 9         | 2.7   | 3.6E     | 4.1  | 2.4   | 3.9   | 6.2   | 10    | 13    | 11    | 2.6   | 1.5   | 3.2   |
| 10        | 2.8   | 3.5E     | 3.3  | 2.4   | 4.8   | 6.0   | 11    | 36    | 8.6   | 2.2   | 1.5   | 3.2   |
| 11        | 2.8   | 3.2E     | 3.5  | 2.4   | 4.0   | 5.7   | 12    | 27.1  | 7.2   | 2.3   | 1.4   | 3.2   |
| 12        | 2.8   | 3.3E     | 3.3  | 2.5   | 4.2   | 5.5   | 13    | 137   | 7.1   | 2.3   | 1.6   | 3.4   |
| 13        | 2.8   | 3.3E     | 2.4  | 2.4   | 4.6   | 5.4   | 11    | 47    | 7.3   | 2.3   | 1.7   | 3.5   |
| 14        | 2.6   | 3.1E     | 2.1  | 2.4   | 4.4   | 6.3   | 9.4   | 28    | 7.0   | 2.0   | 1.8   | 3.2   |
| 15        | 2.1   | 2.8E     | 1.8  | 2.9   | 4.5   | 10    | 8.1   | 19    | 7.3   | 2.0   | 2.3   | 2.8   |
| 16        | 2.2   | 2.8E     | 1.7  | 2.5   | 4.7   | 12    | 8.0   | 30    | 7.4   | 1.9   | 6.4   | 3.0   |
| 17        | 1.9   | 2.8E     | 1.8  | 2.4   | 4.5   | 32    | 8.7   | 30    | 7.1   | 1.9   | 8.0   | 2.9   |
| 18        | 4.4   | 2.9E     | 1.6  | 2.4   | 3.5   | 13    | 9.2   | 24    | 6.6   | 1.7   | 6.8   | 3.6   |
| 19        | 1.1   | 3.1E     | 1.5  | 2.5   | 3.1   | 8.5   | 9.4   | 17    | 23    | 1.8   | 5.6   | 5.2   |
| 20        | .91   | 3.4E     | 1.5  | 4.2   | 2.9   | 6.9   | 12    | 11    | 50    | 1.8   | 5.5   | 4.7   |
| 21        | .84   | 3.3E     | 1.6  | 2.8   | 2.8   | 14    | 15    | 8.1   | 39    | 1.7   | 5.6   | 4.0   |
| 22        | 2.9   | 3.3E     | 1.7  | 3.1   | 2.7   | 8.2   | 16    | 6.9   | 24    | 1.9   | 5.2   | 3.5   |
| 23        | 1.7   | 3.4E     | 2.0  | 2.6   | 3.6   | 7.3   | 17    | 5.6   | 17    | 1.9   | 3.6   | 3.2   |
| 24        | .96   | 3.4      | 1.8E | 2.7   | 3.5   | 6.4   | 13    | 4.8   | 9.0   | 1.8   | 5.5   | 3.7   |
| 25        | 3.6   | 2.9      | 1.2E | 2.5   | 7.9   | 6.3   | 12    | 4.5   | 6.8   | 1.7   | 4.9   | 4.8   |
| 26        | 4.0   | 2.9      | 1.7E | 2.2   | 8.1   | 6.0   | 11    | 4.3   | 6.3   | 1.7   | 3.6   | 4.7   |
| 27        | 1.5   | 4.0      | 2.6  | 1.9   | 4.4   | 5.7   | 16    | 4.5   | 5.8   | 1.6   | 3.9   | 4.4   |
| 28        | 1.5   | 4.6      | 2.9  | 2.1   | 14    | 5.6   | 23    | 4.8   | 5.5   | 1.5   | 4.1   | 4.0   |
| 29        | 3.0   | 6.6      | 3.8  | 3.3   | 12    | 5.4   | 21    | 4.9   | 5.4   | 1.7   | 7.0   | 3.8   |
| 30        | 2.6 E | -----    | 4.0  | 2.8   | 9.9   | 5.6   | 15    | 4.9   | 5.4   | 1.7   | 8.0   | 3.7   |
| 31        | 1.9 E | -----    | 3.9  | ----- | 29    | ----- | 13    | 4.8   | ----- | 1.5   | ----- | 3.6   |
| TOTAL     | 73.01 | 91.3     | 88.0 | 83.9  | 208.3 | 323.2 | 404.3 | 920.1 | 343.1 | 81.1  | 108.1 | 114.9 |
| MEAN      | 2.36  | 3.15     | 2.84 | 2.80  | 6.72  | 10.8  | 13.0  | 29.7  | 11.4  | 2.62  | 3.60  | 3.71  |
| MAX       | 4.4   | 6.6      | 4.9  | 4.5   | 44    | 46    | 39    | 271   | 50    | 5.5   | 8.0   | 5.2   |
| MIN       | .84   | 1.4      | 1.2  | 1.9   | 2.3   | 5.4   | 5.5   | 4.3   | 5.1   | 1.5   | 1.4   | 2.8   |
| AC-FT     | 145   | 161      | 175  | 166   | 413   | 641   | 802   | 1,830 | 681   | 161   | 214   | 228   |
| YEAR 1996 | TOTAL | 2,839.31 | MEAN | 7.76  | MAX   | 271   | MIN   | .84   | AC-FT | 5,630 |       |       |

# PLATTE RIVER BASIN (LOUP RIVER)

## CEDAR RIVER near Spalding, 06791500 - 1996

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

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

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

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

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

E indicates estimated daily discharge. Estimated records January 7-10, 16-31, February 1-10, 28-29, March 1-2, 24-28, August 4-13, December 16-31. Records good, except estimated records 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 901 cubic feet per second on June 1, gage height 4.92 feet; minimum daily discharge 134 cubic feet per second July 18, 19.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG    | SEP    | OCT     | NOV    | DEC    |
|-----------|--------|--------|--------|--------|--------|--------|-------|--------|--------|---------|--------|--------|
| 1         | 172    | 155E   | 175E   | 208    | 179    | 836    | 148   | 152    | 156    | 206     | 168    | 226    |
| 2         | 168    | 150E   | 190E   | 203    | 181    | 788    | 150   | 154    | 161    | 193     | 171    | 218    |
| 3         | 166    | 150E   | 205    | 205    | 193    | 782    | 147   | 163    | 157    | 186     | 174    | 209    |
| 4         | 169    | 150E   | 196    | 196    | 206    | 825    | 145   | 195E   | 154    | 182     | 179    | 209    |
| 5         | 172    | 155E   | 192    | 189    | 220    | 743    | 144   | 230E   | 150    | 182     | 174    | 207    |
| 6         | 178    | 170E   | 187    | 187    | 239    | 558    | 148   | 245E   | 147    | 181     | 172    | 203    |
| 7         | 165E   | 200E   | 167    | 188    | 249    | 466    | 171   | 230E   | 162    | 179     | 170    | 206    |
| 8         | 160E   | 230E   | 160E   | 187    | 235    | 374    | 184   | 190E   | 164    | 174     | 169    | 204    |
| 9         | 170E   | 270E   | 175E   | 184    | 220    | 343    | 171   | 160E   | 163    | 172     | 168    | 202    |
| 10        | 180E   | 320E   | 207    | 182    | 213    | 300    | 161   | 145E   | 158    | 169     | 169    | 205    |
| 11        | 197    | 360    | 204    | 177    | 205    | 225    | 156   | 140E   | 157    | 168     | 169    | 209    |
| 12        | 185    | 335    | 191    | 173    | 208    | 247    | 154   | 185E   | 150    | 169     | 170    | 213    |
| 13        | 187    | 308    | 195    | 165    | 212    | 225    | 148   | 250E   | 148    | 169     | 170    | 225    |
| 14        | 189    | 301    | 206    | 173    | 210    | 210    | 144   | 176    | 147    | 171     | 173    | 236    |
| 15        | 187    | 297    | 206    | 182    | 210    | 209    | 141   | 179    | 156    | 170     | 183    | 244    |
| 16        | 180E   | 267    | 208    | 183    | 208    | 216    | 141   | 203    | 163    | 171     | 256    | 225E   |
| 17        | 180E   | 273    | 205    | 181    | 206    | 213    | 139   | 208    | 162    | 179     | 247    | 190E   |
| 18        | 170E   | 243    | 201    | 186    | 205    | 202    | 137   | 203    | 161    | 177     | 215    | 180E   |
| 19        | 170E   | 242    | 195    | 187    | 203    | 192    | 137   | 191    | 207    | 180     | 233    | 175E   |
| 20        | 170E   | 244    | 186    | 186    | 192    | 185    | 139   | 183    | 260    | 179     | 223    | 170E   |
| 21        | 165E   | 252    | 187    | 184    | 184    | 204    | 139   | 173    | 298    | 176     | 221    | 170E   |
| 22        | 160E   | 259    | 187    | 188    | 181    | 192    | 149   | 169    | 303    | 173     | 223    | 170E   |
| 23        | 165E   | 257    | 186    | 190    | 178    | 199    | 162   | 164    | 316    | 173     | 220    | 170E   |
| 24        | 165E   | 243    | 180E   | 186    | 178    | 190    | 192   | 170    | 336    | 175     | 211    | 165E   |
| 25        | 165E   | 235    | 180E   | 180    | 203    | 180    | 188   | 177    | 332    | 175     | 191    | 155E   |
| 26        | 170E   | 222    | 175E   | 171    | 240    | 173    | 172   | 171    | 292    | 177     | 226    | 145E   |
| 27        | 165E   | 196    | 185E   | 165    | 346    | 171    | 165   | 162    | 263    | 171     | 226    | 140E   |
| 28        | 170E   | 185E   | 195E   | 167    | 451    | 159    | 159   | 155    | 239    | 167     | 207    | 140E   |
| 29        | 160E   | 180E   | 229    | 183    | 470    | 142    | 155   | 151    | 226    | 174     | 216    | 145E   |
| 30        | 160E   | -----  | 216    | 184    | 503    | 143    | 149   | 151    | 212    | 172     | 229    | 145E   |
| 31        | 160E   | -----  | 209    | -----  | 690    | -----  | 149   | 151    | -----  | 167     | -----  | 150E   |
| TOTL      | 5,320  | 6,849  | 5,980  | 5,520  | 7,818  | 9,892  | 4,784 | 5,576  | 6,100  | 5,457   | 5,923  | 5,851  |
| MEAN      | 172    | 236    | 193    | 184    | 252    | 330    | 154   | 180    | 203    | 176     | 197    | 189    |
| MAX       | 197    | 360    | 229    | 208    | 690    | 836    | 192   | 250    | 336    | 206     | 256    | 244    |
| MIN       | 160    | 150    | 160    | 165    | 178    | 142    | 137   | 140    | 147    | 167     | 168    | 140    |
| AC-FT     | 10,550 | 13,580 | 11,860 | 10,950 | 15,510 | 19,620 | 9,490 | 11,060 | 12,100 | 10,820  | 11,750 | 11,610 |
| YEAR 1996 | TOTAL  | 75,070 | MEAN   | 205    | MAX    | 836    | MIN   | 137    | AC-FT  | 148,900 |        |        |



# PLATTE RIVER BASIN ( LOUP RIVER )

## CEDAR RIVER near Fullerton, 06792000 - 1996

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

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

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

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

REMARKS.--Record published by U. S. Geological Survey through Sep. 1995.  
E indicates estimated daily discharge. Estimated records January 1-18, 20-February 21, 27-March 12, 17-May 9, October 17-November 5, 24-29, December 16-31. Records fair, except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,180 cubic feet per second June 1, gage height 3.31 feet; minimum daily discharge 60 cubic feet per second August 28.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR    | APR    | MAY    | JUN    | JUL   | AUG    | SEP    | OCT     | NOV    | DEC    |
|-----------|--------|---------|--------|--------|--------|--------|-------|--------|--------|---------|--------|--------|
| 1         | 250E   | 240E    | 260E   | 320E   | 240E   | 986    | 177   | 118    | 119    | 313     | 230E   | 332    |
| 2         | 245E   | 235E    | 280E   | 310E   | 245E   | 929    | 171   | 127    | 126    | 291     | 235E   | 314    |
| 3         | 245E   | 235E    | 290E   | 310E   | 260E   | 855    | 158   | 113    | 136    | 266     | 235E   | 294    |
| 4         | 245E   | 235E    | 280E   | 300E   | 270E   | 857    | 138   | 124    | 129    | 247     | 245E   | 301    |
| 5         | 250E   | 240E    | 270E   | 290E   | 290E   | 797    | 134   | 206    | 115    | 238     | 240E   | 300    |
| 6         | 260E   | 270E    | 260E   | 290E   | 320E   | 813    | 141   | 288    | 103    | 234     | 235    | 306    |
| 7         | 245E   | 320E    | 235E   | 290E   | 330E   | 766    | 166   | 280    | 143    | 233     | 227    | 317    |
| 8         | 235E   | 360E    | 225E   | 290E   | 330E   | 625    | 167   | 255    | 213    | 233     | 219    | 315    |
| 9         | 250E   | 430E    | 250E   | 280E   | 320E   | 495    | 188   | 236    | 217    | 231     | 213    | 316    |
| 10        | 260E   | 500E    | 280E   | 280E   | 335    | 427    | 174   | 232    | 209    | 228     | 210    | 284    |
| 11        | 280E   | 580E    | 280E   | 280E   | 297    | 389    | 147   | 234    | 208    | 227     | 217    | 301    |
| 12        | 280E   | 540E    | 260E   | 270E   | 296    | 279    | 149   | 279    | 193    | 222     | 223    | 292    |
| 13        | 290E   | 500E    | 279    | 260E   | 307    | 336    | 147   | 332    | 175    | 230     | 215    | 294    |
| 14        | 280E   | 490E    | 323    | 270E   | 294    | 300    | 143   | 321    | 176    | 233     | 214    | 330    |
| 15        | 280E   | 480E    | 325    | 290E   | 269    | 266    | 125   | 173    | 187    | 236     | 251    | 332    |
| 16        | 280E   | 440E    | 320    | 280E   | 271    | 318    | 115   | 142    | 196    | 234     | 589    | 260E   |
| 17        | 280E   | 440E    | 320E   | 280E   | 276    | 355    | 130   | 188    | 216    | 245E    | 429    | 240E   |
| 18        | 270E   | 400E    | 310E   | 260E   | 279    | 323    | 119   | 213    | 220    | 240E    | 262    | 225E   |
| 19        | 252    | 400E    | 300E   | 260E   | 271    | 261    | 99    | 215    | 442    | 245E    | 238    | 215E   |
| 20        | 250E   | 400E    | 290E   | 260E   | 254    | 263    | 118   | 224    | 620    | 245E    | 242    | 205E   |
| 21        | 245E   | 400E    | 290E   | 260E   | 238    | 289    | 128   | 205    | 475    | 240E    | 250    | 205E   |
| 22        | 240E   | 435     | 290E   | 260E   | 225    | 291    | 154   | 203    | 473    | 235E    | 253    | 200E   |
| 23        | 245E   | 390     | 290E   | 260E   | 243    | 328    | 188   | 191    | 453    | 235E    | 254    | 200E   |
| 24        | 250E   | 352     | 280E   | 260E   | 249    | 304    | 188   | 182    | 465    | 235E    | 270E   | 195E   |
| 25        | 250E   | 339     | 280E   | 250E   | 407    | 281    | 192   | 168    | 493    | 235E    | 215E   | 190E   |
| 26        | 250E   | 333     | 270E   | 240E   | 512    | 266    | 202   | 183    | 508    | 240E    | 185E   | 185E   |
| 27        | 250E   | 290E    | 280E   | 230E   | 685    | 252    | 187   | 183    | 439    | 230E    | 260E   | 180E   |
| 28        | 250E   | 280E    | 300E   | 230E   | 588    | 247    | 169   | 121    | 384    | 225E    | 320E   | 185E   |
| 29        | 240E   | 270E    | 340E   | 250E   | 533    | 230    | 140   | 160    | 349    | 235E    | 350E   | 185E   |
| 30        | 235E   | -----   | 330E   | 260E   | 551    | 201    | 111   | 119    | 325    | 230E    | 383    | 190E   |
| 31        | 235E   | -----   | 320E   | -----  | 762    | -----  | 75    | 130    | -----  | 225E    | -----  | 195E   |
| TOTAL     | 7,917  | 10,824  | 8,907  | 8,170  | 10,747 | 13,349 | 4,640 | 6,145  | 8,507  | 7,436   | 7,929  | 7,883  |
| MEAN      | 255    | 373     | 287    | 272    | 347    | 445    | 150   | 198    | 284    | 240     | 264    | 254    |
| MAX       | 290    | 580     | 340    | 320    | 762    | 986    | 202   | 332    | 620    | 313     | 589    | 332    |
| MIN       | 235    | 235     | 225    | 230    | 225    | 201    | 75    | 113    | 103    | 222     | 185    | 180    |
| AC-FT     | 15,700 | 21,470  | 17,670 | 16,210 | 21,320 | 26,480 | 9,200 | 12,190 | 16,870 | 14,750  | 15,730 | 15,640 |
| YEAR 1996 | TOTAL  | 102,454 | MEAN   | 280    | MAX    | 986    | MIN   | 75     | AC-FT  | 203,200 |        |        |

# PLATTE RIVER BASIN (LOUP RIVER)

**BEAVER CREEK at Loretto, 06793500 - 1996**

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

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

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

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

REMARKS.--Record published by U. S. Geological Survey up to October 1, 1991.  
E indicates estimated daily discharge. Estimated records January 4-February 6, 16-18, 28-March 12, 26-April 1, August 15-September 5, November 26-December 5, 19-31. Records good, except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 541 cubic feet per second June 2, gage height 4.82 feet; minimum daily discharge 43 cubic feet per second July 19 and September 4.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 69    | 47E    | 58E   | 106E  | 87    | 346   | 61    | 58    | 46E   | 63     | 63    | 68E   |
| 2         | 65    | 46E    | 54E   | 105   | 84    | 487   | 115   | 58    | 45E   | 61     | 63    | 70E   |
| 3         | 59    | 50E    | 54E   | 100   | 89    | 403   | 69    | 58    | 44E   | 61     | 64    | 76E   |
| 4         | 54E   | 60E    | 62E   | 89    | 140   | 254   | 64    | 58    | 43E   | 61     | 65    | 84E   |
| 5         | 50E   | 80E    | 60E   | 87    | 150   | 207   | 62    | 253   | 46E   | 62     | 69    | 94E   |
| 6         | 54E   | 100E   | 54E   | 86    | 123   | 169   | 60    | 200   | 46    | 60     | 67    | 98    |
| 7         | 58E   | 151    | 50E   | 85    | 103   | 227   | 61    | 133   | 50    | 58     | 65    | 98    |
| 8         | 60E   | 201    | 54E   | 84    | 96    | 238   | 63    | 101   | 69    | 59     | 64    | 96    |
| 9         | 64E   | 292    | 66E   | 84    | 91    | 181   | 59    | 94    | 63    | 57     | 65    | 94    |
| 10        | 70E   | 211    | 94E   | 84    | 93    | 144   | 53    | 85    | 60    | 58     | 64    | 96    |
| 11        | 84E   | 196    | 96E   | 82    | 103   | 125   | 51    | 110   | 58    | 58     | 64    | 97    |
| 12        | 90E   | 147    | 100E  | 76    | 98    | 112   | 51    | 115   | 57    | 59     | 64    | 101   |
| 13        | 96E   | 133    | 103   | 74    | 99    | 99    | 51    | 112   | 55    | 60     | 64    | 109   |
| 14        | 84E   | 127    | 99    | 74    | 105   | 91    | 48    | 101   | 55    | 60     | 63    | 118   |
| 15        | 76E   | 120    | 95    | 81    | 105   | 85    | 47    | 90E   | 56    | 57     | 67    | 121   |
| 16        | 82E   | 86E    | 94    | 89    | 106   | 90    | 46    | 80E   | 58    | 55     | 186   | 111   |
| 17        | 74E   | 86E    | 92    | 86    | 100   | 96    | 45    | 70E   | 60    | 57     | 217   | 101   |
| 18        | 70E   | 88E    | 91    | 84    | 92    | 85    | 45    | 62E   | 58    | 58     | 148   | 96    |
| 19        | 66E   | 86     | 87    | 78    | 83    | 79    | 43    | 58E   | 87    | 57     | 126   | 74E   |
| 20        | 66E   | 91     | 82    | 77    | 75    | 73    | 45    | 60E   | 188   | 58     | 115   | 70E   |
| 21        | 74E   | 98     | 81    | 78    | 72    | 101   | 46    | 56E   | 149   | 57     | 111   | 72E   |
| 22        | 80E   | 99     | 81    | 77    | 71    | 128   | 89    | 56E   | 105   | 57     | 111   | 74E   |
| 23        | 74E   | 97     | 82    | 82    | 71    | 146   | 99    | 56E   | 80    | 57     | 104   | 74E   |
| 24        | 70E   | 96     | 79    | 82    | 73    | 108   | 77    | 62E   | 73    | 58     | 84    | 74E   |
| 25        | 72E   | 94     | 73    | 75    | 93    | 93    | 68    | 56E   | 68    | 58     | 76    | 72E   |
| 26        | 66E   | 90     | 80E   | 68    | 134   | 83    | 66    | 54E   | 68    | 62     | 70E   | 74E   |
| 27        | 70E   | 70     | 76E   | 68    | 264   | 75    | 65    | 52E   | 68    | 61     | 74E   | 76E   |
| 28        | 72E   | 60E    | 80E   | 67    | 388   | 70    | 66    | 50E   | 66    | 60     | 78E   | 78E   |
| 29        | 60E   | 56E    | 90E   | 78    | 418   | 65    | 64    | 49E   | 65    | 60     | 76E   | 76E   |
| 30        | 50E   | -----  | 96E   | 88    | 355   | 63    | 59    | 48E   | 64    | 62     | 72E   | 74E   |
| 31        | 45E   | -----  | 100E  | ----- | 301   | ----- | 56    | 47E   | ----- | 64     | ----- | 74E   |
| TOTAL     | 2,124 | 3,158  | 2,463 | 2,474 | 4,262 | 4,543 | 1,894 | 2,542 | 2,050 | 1,835  | 2,619 | 2,690 |
| MEAN      | 68.5  | 109    | 79.5  | 82.5  | 137   | 151   | 61.1  | 82.0  | 68.3  | 59.2   | 87.3  | 86.8  |
| MAX       | 96    | 292    | 103   | 106   | 418   | 487   | 115   | 253   | 188   | 64     | 217   | 121   |
| MIN       | 45    | 46     | 50    | 67    | 71    | 63    | 43    | 47    | 43    | 55     | 63    | 68    |
| AC-FT     | 4,210 | 6,260  | 4,890 | 4,910 | 8,450 | 9,010 | 3,760 | 5,040 | 4,070 | 3,640  | 5,190 | 5,340 |
| YEAR 1996 | TOTAL | 32,654 | MEAN  | 89.2  | MAX   | 487   | MIN   | 43    | AC-FT | 64,770 |       |       |

# PLATTE RIVER BASIN (ELKHORN RIVER)

**ELKHORN RIVER near Atkinson, 06796973 - 1996**

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

DRAINAGE AREA.--Undetermined.

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

PERIOD OF RECORD.--1982 - present

REMARKS.--Published by U. S. Geological Survey up to October 1, 1991.  
E indicates estimated daily discharge. Estimated daily discharge January 1-March 11, 25-27, November 16-December 31.  
Records good, except estimated records 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 2,110 cubic feet per second June 1, gage height 8.37 feet; minimum daily discharge 15 cubic feet per second September 6.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY    | JUN    | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|--------|-------|-------|--------|--------|-------|-------|-------|--------|-------|-------|
| 1         | 60E   | 35E    | 100E  | 131   | 102    | 2,040  | 123   | 33    | 17    | 120    | 56    | 76E   |
| 2         | 57E   | 32E    | 110E  | 131   | 116    | 1,740  | 110   | 32    | 18    | 104    | 57    | 70E   |
| 3         | 45E   | 29E    | 120E  | 124   | 123    | 1,400  | 99    | 31    | 18    | 93     | 59    | 74E   |
| 4         | 40E   | 32E    | 130E  | 114   | 141    | 1,110  | 92    | 34    | 17    | 88     | 61    | 73E   |
| 5         | 35E   | 35E    | 120E  | 109   | 156    | 895    | 87    | 35    | 16    | 82     | 59    | 68E   |
| 6         | 36E   | 37E    | 110E  | 108   | 156    | 796    | 87    | 35    | 15    | 76     | 59    | 62E   |
| 7         | 33E   | 45E    | 120E  | 110   | 150    | 684    | 83    | 35    | 22    | 71     | 58    | 64E   |
| 8         | 36E   | 60E    | 130E  | 109   | 145    | 580    | 79    | 32    | 22    | 68     | 56    | 62E   |
| 9         | 50E   | 58E    | 120E  | 104   | 138    | 494    | 74    | 29    | 21    | 64     | 56    | 62E   |
| 10        | 54E   | 54E    | 110E  | 104   | 134    | 405    | 70    | 29    | 21    | 61     | 56    | 60E   |
| 11        | 52E   | 60E    | 120E  | 99    | 132    | 337    | 66    | 31    | 20    | 60     | 55    | 62E   |
| 12        | 56E   | 64E    | 135   | 95    | 130    | 281    | 64    | 30    | 21    | 59     | 54    | 64E   |
| 13        | 58E   | 58E    | 161   | 94    | 127    | 243    | 60    | 29    | 21    | 56     | 55    | 70E   |
| 14        | 56E   | 64E    | 180   | 96    | 130    | 212    | 56    | 28    | 20    | 55     | 57    | 78E   |
| 15        | 50E   | 70E    | 182   | 103   | 135    | 189    | 54    | 27    | 25    | 53     | 58    | 70E   |
| 16        | 54E   | 64E    | 169   | 106   | 135    | 298    | 51    | 26    | 24    | 52     | 50E   | 72E   |
| 17        | 50E   | 58E    | 160   | 107   | 130    | 733    | 50    | 25    | 23    | 62     | 40E   | 64E   |
| 18        | 40E   | 70E    | 151   | 102   | 123    | 823    | 48    | 25    | 22    | 62     | 42E   | 56E   |
| 19        | 30E   | 68E    | 138   | 98    | 116    | 668    | 44    | 24    | 62    | 64     | 42E   | 62E   |
| 20        | 35E   | 80E    | 124   | 96    | 111    | 541    | 42    | 22    | 94    | 63     | 45E   | 56E   |
| 21        | 40E   | 100E   | 124   | 95    | 106    | 439    | 40    | 22    | 135   | 59     | 43E   | 52E   |
| 22        | 45E   | 120E   | 129   | 95    | 103    | 359    | 45    | 25    | 146   | 57     | 45E   | 50E   |
| 23        | 50E   | 100E   | 129   | 95    | 113    | 314    | 42    | 24    | 140   | 56     | 43E   | 45E   |
| 24        | 45E   | 110E   | 126   | 97    | 149    | 280    | 37    | 24    | 130   | 55     | 38E   | 40E   |
| 25        | 48E   | 130E   | 100E  | 93    | 258    | 249    | 35    | 23    | 129   | 56     | 40E   | 37E   |
| 26        | 40E   | 120E   | 80E   | 86    | 384    | 216    | 32    | 22    | 141   | 55     | 45E   | 34E   |
| 27        | 37E   | 100E   | 110E  | 84    | 649    | 191    | 47    | 20    | 151   | 53     | 60E   | 39E   |
| 28        | 34E   | 110E   | 137   | 86    | 1,340  | 167    | 42    | 21    | 147   | 53     | 80E   | 48E   |
| 29        | 35E   | 106E   | 134   | 94    | 1,810  | 151    | 40    | 20    | 142   | 55     | 76E   | 45E   |
| 30        | 32E   | -----  | 142   | 101   | 1,770  | 135    | 37    | 18    | 133   | 55     | 72E   | 56E   |
| 31        | 34E   | -----  | 133   | ----- | 1,780  | -----  | 35    | 18    | ----- | 55     | ----- | 62E   |
| TOTAL     | 1,367 | 2,069  | 4,034 | 3,066 | 11,098 | 16,970 | 1,871 | 829   | 1,913 | 2,022  | 1,617 | 1,833 |
| MEAN      | 44.1  | 71.3   | 130   | 102   | 358    | 566    | 60.4  | 26.7  | 63.8  | 65.2   | 53.9  | 59.1  |
| MAX       | 60    | 130    | 182   | 131   | 1,810  | 2,040  | 123   | 35    | 151   | 120    | 80    | 78    |
| MIN       | 30    | 29     | 80    | 84    | 103    | 135    | 32    | 18    | 15    | 52     | 38    | 34    |
| AC-FT     | 2,710 | 4,100  | 8,000 | 6,080 | 22,010 | 33,660 | 3,710 | 1,640 | 3,790 | 4,010  | 3,210 | 3,640 |
| YEAR 1996 | TOTAL | 48,689 | MEAN  | 133   | MAX    | 2,040  | MIN   | 15    | AC-FT | 96,570 |       |       |

# PLATTE RIVER BASIN (ELKHORN RIVER)

**SOUTH FORK ELKHORN RIVER near Ewing, 06798000 - 1996**

LOCATION.--SE1/4NE1/4 Sec. 7-26-9 W., Holt County, Lat. 42° 14' 29", Long. 98° 23' 53", on right bank 7 feet downstream and 80 feet shoreward from bridge on county highway, 2.9 miles southwest of intersection with U.S. Highway 275 in Ewing and 5.5 miles upstream from the mouth.

DRAINAGE AREA.--314 square miles, of which approximately 190 square miles contributes directly to surface runoff.

GAGE.--Continuous Stage Recorder. Elevation of the gage is approximately 1,880 feet from topographic map.

PERIOD OF RECORD.--Oct. 1977 - present

REMARKS.--Published by U. S. Geological Survey up to October 1, 1991. See USGS reports for period of record before 1977. E indicates estimated daily discharge. Estimated records January 1-13, 15-February 22, 27-March 12, 25-April 5, November 14-December 10, 14-31. Records fair, except estimated records poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 5,640 cubic feet per second March 18, 1987, gage height 7.59 feet; minimum daily discharge 11 cubic feet per second January 15, 1953.

EXTREMES FOR CURRENT YEAR.--Peak discharge estimated at 1,050 cubic feet per second May 29, gage height 3.15 feet; maximum gage height 4.35 feet due to backwater from ice; minimum daily discharge estimated 30 cubic feet per second January 19 and November 28.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY    | JUN    | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|--------|-------|-------|--------|--------|-------|-------|-------|--------|-------|-------|
| 1         | 50E   | 35E    | 90E   | 86E   | 92     | 777    | 47    | 38    | 42    | 54     | 49    | 44E   |
| 2         | 58E   | 40E    | 94E   | 84E   | 93     | 730    | 43    | 38    | 41    | 50     | 53    | 54E   |
| 3         | 60E   | 35E    | 70E   | 82E   | 94     | 585    | 46    | 39    | 41    | 50     | 49    | 62E   |
| 4         | 50E   | 40E    | 80E   | 82E   | 92     | 427    | 46    | 48    | 39    | 50     | 48    | 60E   |
| 5         | 45E   | 50E    | 90E   | 80E   | 94     | 324    | 46    | 52    | 37    | 48     | 47    | 56E   |
| 6         | 40E   | 54E    | 80E   | 80    | 90     | 270    | 47    | 44    | 37    | 47     | 47    | 50E   |
| 7         | 35E   | 60E    | 70E   | 79    | 87     | 225    | 46    | 43    | 44    | 46     | 48    | 54E   |
| 8         | 40E   | 64E    | 60E   | 78    | 80     | 208    | 53    | 40    | 42    | 47     | 48    | 54E   |
| 9         | 45E   | 62E    | 70E   | 79    | 75     | 196    | 49    | 40    | 41    | 46     | 49    | 54E   |
| 10        | 50E   | 80E    | 74E   | 83    | 72     | 182    | 46    | 42    | 40    | 43     | 49    | 60E   |
| 11        | 45E   | 70E    | 74E   | 76    | 73     | 162    | 45    | 56    | 40    | 43     | 49    | 91    |
| 12        | 50E   | 68E    | 76E   | 66    | 76     | 144    | 46    | 80    | 40    | 43     | 50    | 96    |
| 13        | 55E   | 74E    | 80    | 68    | 79     | 121    | 44    | 64    | 39    | 43     | 51    | 99    |
| 14        | 66    | 74E    | 84    | 76    | 86     | 115    | 42    | 50    | 38    | 43     | 44E   | 100E  |
| 15        | 50E   | 70E    | 86    | 81    | 91     | 108    | 43    | 46    | 45    | 43     | 46E   | 96E   |
| 16        | 52E   | 66E    | 81    | 89    | 97     | 107    | 41    | 51    | 46    | 43     | 43E   | 80E   |
| 17        | 64E   | 76E    | 76    | 92    | 96     | 102    | 42    | 47    | 44    | 44     | 41E   | 70E   |
| 18        | 50E   | 66E    | 74    | 87    | 95     | 101    | 40    | 46    | 44    | 43     | 40E   | 60E   |
| 19        | 30E   | 90E    | 69    | 81    | 95     | 101    | 40    | 46    | 73    | 44     | 44E   | 58E   |
| 20        | 35E   | 150E   | 70    | 83    | 99     | 96     | 39    | 46    | 72    | 44     | 47E   | 56E   |
| 21        | 40E   | 135E   | 70    | 86    | 95     | 87     | 38    | 46    | 94    | 43     | 49E   | 52E   |
| 22        | 45E   | 124E   | 76    | 89    | 101    | 81     | 40    | 53    | 91    | 42     | 50E   | 54E   |
| 23        | 40E   | 111    | 81    | 90    | 105    | 79     | 41    | 58    | 77    | 42     | 45E   | 52E   |
| 24        | 44E   | 106    | 77    | 96    | 134    | 73     | 43    | 97    | 72    | 45     | 40E   | 45E   |
| 25        | 42E   | 98     | 70E   | 84    | 165    | 70     | 42    | 72    | 71    | 49     | 36E   | 40E   |
| 26        | 38E   | 92     | 60E   | 82    | 218    | 65     | 42    | 58    | 61    | 51     | 38E   | 39E   |
| 27        | 36E   | 80E    | 70E   | 87    | 285    | 60     | 47    | 53    | 56    | 47     | 34E   | 37E   |
| 28        | 34E   | 76E    | 76E   | 88    | 497    | 57     | 43    | 50    | 54    | 46     | 30E   | 35E   |
| 29        | 39E   | 74E    | 82E   | 81    | 889    | 53     | 42    | 47    | 55    | 48     | 35E   | 35E   |
| 30        | 33E   | -----  | 84E   | 84    | 929    | 50     | 39    | 44    | 54    | 49     | 40E   | 37E   |
| 31        | 33E   | -----  | 80E   | ----- | 818    | -----  | 38    | 43    | ----- | 49     | ----- | 39E   |
| TOTAL     | 1,394 | 2,220  | 2,374 | 2,479 | 5,992  | 5,756  | 1,350 | 1,577 | 1,570 | 1,425  | 1,339 | 1,819 |
| MEAN      | 45.0  | 76.6   | 76.6  | 82.6  | 193    | 192    | 43.5  | 50.9  | 52.3  | 46.0   | 44.6  | 58.7  |
| MAX       | 66    | 150    | 94    | 96    | 929    | 777    | 53    | 97    | 94    | 54     | 53    | 100   |
| MIN       | 30    | 35     | 60    | 66    | 72     | 50     | 38    | 38    | 37    | 42     | 30    | 35    |
| AC-FT     | 2,760 | 4,400  | 4,710 | 4,920 | 11,890 | 11,420 | 2,680 | 3,130 | 3,110 | 2,830  | 2,660 | 3,610 |
| YEAR 1996 | TOTAL | 29,295 | MEAN  | 80.0  | MAX    | 929    | MIN   | 30    | AC-FT | 58,110 |       |       |

# PLATTE RIVER BASIN (ELKHORN RIVER)

## ELKHORN RIVER at Neligh, 06798500 - 1996

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 2,714.00 feet above sea level.

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

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

E indicates estimated daily discharge. Estimated records January 1-February 9, March 7-9, November 28-December 31. Records good, except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 8,140 cubic feet per second June 1, gage height 9.70 feet; minimum daily discharge 124 cubic feet per second September 6.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR    | APR    | MAY    | JUN     | JUL    | AUG    | SEP    | OCT     | NOV    | DEC    |
|-----------|--------|---------|--------|--------|--------|---------|--------|--------|--------|---------|--------|--------|
| 1         | 270E   | 160E    | 825    | 842    | 360    | 7,600   | 421    | 154    | 155    | 431     | 221    | 260E   |
| 2         | 280E   | 165E    | 837    | 755    | 380    | 6,860   | 400    | 152    | 146    | 383     | 224    | 260E   |
| 3         | 290E   | 170E    | 660    | 710    | 438    | 6,030   | 347    | 146    | 141    | 339     | 238    | 350E   |
| 4         | 280E   | 170E    | 597    | 643    | 578    | 4,830   | 319    | 162    | 139    | 310     | 261    | 310E   |
| 5         | 260E   | 180E    | 565    | 549    | 670    | 3,680   | 279    | 929    | 136    | 301     | 255    | 300E   |
| 6         | 260E   | 195E    | 573    | 503    | 657    | 3,020   | 280    | 545    | 124    | 284     | 255    | 310E   |
| 7         | 280E   | 350E    | 600E   | 491    | 599    | 2,510   | 297    | 336    | 152    | 265     | 247    | 310E   |
| 8         | 300E   | 600E    | 640E   | 480    | 571    | 2,120   | 300    | 231    | 208    | 246     | 236    | 310E   |
| 9         | 310E   | 900E    | 680E   | 475    | 516    | 1,840   | 295    | 182    | 173    | 243     | 233    | 305E   |
| 10        | 320E   | 1,380   | 736    | 462    | 494    | 1,560   | 255    | 145    | 167    | 230     | 228    | 300E   |
| 11        | 340E   | 1,400   | 885    | 447    | 453    | 1,360   | 232    | 191    | 146    | 220     | 214    | 270E   |
| 12        | 300E   | 1,270   | 634    | 429    | 457    | 1,180   | 225    | 231    | 136    | 218     | 214    | 250E   |
| 13        | 320E   | 1,550   | 521    | 407    | 469    | 1,010   | 219    | 291    | 142    | 221     | 212    | 230E   |
| 14        | 310E   | 1,510   | 545    | 413    | 480    | 850     | 217    | 241    | 140    | 218     | 184    | 210E   |
| 15        | 290E   | 1,420   | 543    | 442    | 521    | 735     | 200    | 208    | 145    | 211     | 248    | 215E   |
| 16        | 280E   | 992     | 576    | 449    | 530    | 740     | 179    | 203    | 157    | 208     | 429    | 210E   |
| 17        | 280E   | 1,230   | 570    | 467    | 529    | 713     | 172    | 221    | 154    | 248     | 242    | 210E   |
| 18        | 270E   | 1,200   | 526    | 472    | 479    | 739     | 172    | 215    | 156    | 232     | 189    | 220E   |
| 19        | 250E   | 1,160   | 483    | 435    | 430    | 880     | 165    | 206    | 358    | 240     | 299    | 240E   |
| 20        | 245E   | 1,220   | 438    | 416    | 414    | 1,310   | 152    | 193    | 537    | 254     | 317    | 250E   |
| 21        | 235E   | 1,060   | 410    | 402    | 419    | 1,550   | 155    | 182    | 487    | 247     | 353    | 240E   |
| 22        | 225E   | 1,110   | 400    | 425    | 385    | 1,230   | 161    | 186    | 577    | 229     | 332    | 230E   |
| 23        | 215E   | 924     | 400    | 406    | 410    | 1,030   | 184    | 206    | 574    | 227     | 307    | 220E   |
| 24        | 210E   | 873     | 446    | 393    | 640    | 856     | 163    | 216    | 560    | 228     | 155    | 215E   |
| 25        | 200E   | 818     | 393    | 371    | 1,320  | 731     | 151    | 271    | 563    | 234     | 198    | 220E   |
| 26        | 195E   | 735     | 574    | 299    | 1,930  | 642     | 143    | 221    | 550    | 234     | 281    | 230E   |
| 27        | 185E   | 521     | 679    | 274    | 2,540  | 672     | 177    | 195    | 511    | 221     | 274    | 240E   |
| 28        | 180E   | 609     | 623    | 270    | 3,470  | 584     | 173    | 183    | 497    | 216     | 250E   | 250E   |
| 29        | 175E   | 723     | 629    | 322    | 4,240  | 510     | 160    | 172    | 485    | 236     | 260E   | 260E   |
| 30        | 170E   | -----   | 731    | 339    | 5,050  | 451     | 154    | 163    | 462    | 248     | 260E   | 260E   |
| 31        | 165E   | -----   | 772    | -----  | 5,970  | -----   | 145    | 161    | -----  | 225     | -----  | 260E   |
| TOTAL     | 7,890  | 24,595  | 18,491 | 13,788 | 36,399 | 57,823  | 6,892  | 7,338  | 8,878  | 7,847   | 7,616  | 7,945  |
| MEAN      | 255    | 848     | 596    | 460    | 1,174  | 1,927   | 222    | 237    | 296    | 253     | 254    | 256    |
| MAX       | 340    | 1,550   | 885    | 842    | 5,970  | 7,600   | 421    | 929    | 577    | 431     | 429    | 350    |
| MIN       | 165    | 160     | 393    | 270    | 360    | 451     | 143    | 145    | 124    | 208     | 155    | 210    |
| AC-FT     | 15,650 | 48,780  | 36,680 | 27,350 | 72,200 | 114,700 | 13,670 | 14,550 | 17,610 | 15,560  | 15,110 | 15,760 |
| YEAR 1996 | TOTAL  | 205,502 | MEAN   | 561    | MAX    | 7,600   | MIN    | 124    | AC-FT  | 407,600 |        |        |

# PLATTE RIVER BASIN (ELKHORN RIVER)

**WILLOW CREEK near Foster, 06799080 - 1996**

LOCATION.--NW1/4NE1/4 Section 4-25-3 W., Pierce County, Lat. 42° 10' 38", Long. 97° 40' 02", on left downstream bank at county road bridge, 6.8 miles south of Foster and 7.2 miles southwest of Pierce.

DRAINAGE AREA.--137 square miles.

GAGE.--Continuous stage recorder. Gage elevation approximately 1,650 feet above mean sea level, from topographic map.

PERIOD OF RECORD.--1975 - present

REMARKS.--Published by U. S. Geological Survey up to October 1, 1993  
E indicates estimated daily discharge. Estimated records January 1-February 18, 25-March 11, 24-26, October 30-November 1, 6-30, December 16-31. Records fair, except estimated records 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 197 cubic feet per second May 30, gage height 7.39 feet; minimum daily discharge 8.8 cubic feet per second August 4.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB      | MAR   | APR   | MAY   | JUN   | JUL  | AUG     | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|----------|-------|-------|-------|-------|------|---------|-------|--------|-------|-------|
| 1         | 16E   | 12E      | 23E   | 87    | 33    | 178   | 17   | 10      | 11    | 14     | 13 E  | 28    |
| 2         | 15E   | 13E      | 20E   | 108   | 33    | 165   | 16   | 9.7     | 11    | 14     | 16    | 27    |
| 3         | 14E   | 14E      | 25E   | 105   | 36    | 167   | 16   | 8.9     | 11    | 14     | 16    | 26    |
| 4         | 13E   | 20E      | 23E   | 93    | 43    | 174   | 16   | 8.8     | 11    | 14     | 18    | 25    |
| 5         | 13E   | 30E      | 20E   | 86    | 44    | 141   | 15   | 150     | 11    | 14     | 14    | 25    |
| 6         | 12E   | 40E      | 20E   | 81    | 40    | 58    | 15   | 156     | 10    | 14     | 10 E  | 24    |
| 7         | 15E   | 50E      | 18E   | 77    | 36    | 44    | 15   | 130     | 12    | 14     | 11 E  | 24    |
| 8         | 16E   | 56E      | 20E   | 74    | 33    | 36    | 15   | 152     | 11    | 14     | 12 E  | 24    |
| 9         | 18E   | 64E      | 19E   | 72    | 32    | 31    | 14   | 131     | 11    | 14     | 12 E  | 23    |
| 10        | 19E   | 70E      | 22E   | 71    | 38    | 29    | 14   | 36      | 12    | 14     | 10 E  | 23    |
| 11        | 20E   | 64E      | 25E   | 68    | 43    | 27    | 14   | 24      | 12    | 14     | 9.6E  | 23    |
| 12        | 18E   | 60E      | 29    | 67    | 41    | 29    | 14   | 20      | 11    | 14     | 10 E  | 24    |
| 13        | 16E   | 50E      | 30    | 66    | 38    | 29    | 13   | 18      | 11    | 14     | 10 E  | 24    |
| 14        | 17E   | 45E      | 31    | 66    | 36    | 29    | 13   | 15      | 12    | 14     | 12 E  | 25    |
| 15        | 16E   | 40E      | 32    | 70    | 37    | 33    | 13   | 13      | 12    | 14     | 15 E  | 23    |
| 16        | 14E   | 30E      | 33    | 72    | 35    | 55    | 12   | 12      | 12    | 17     | 25 E  | 22E   |
| 17        | 18E   | 27E      | 33    | 69    | 32    | 64    | 12   | 12      | 12    | 28     | 21 E  | 18E   |
| 18        | 16E   | 25E      | 33    | 63    | 29    | 58    | 12   | 12      | 12    | 21     | 18 E  | 15E   |
| 19        | 15E   | 25       | 33    | 57    | 26    | 51    | 12   | 11      | 18    | 19     | 15 E  | 16E   |
| 20        | 17E   | 26       | 32    | 55    | 25    | 72    | 11   | 11      | 19    | 17     | 14 E  | 17E   |
| 21        | 16E   | 27       | 34    | 52    | 24    | 108   | 12   | 11      | 18    | 16     | 12 E  | 18E   |
| 22        | 18E   | 28       | 34    | 53    | 24    | 109   | 12   | 11      | 16    | 16     | 10 E  | 19E   |
| 23        | 17E   | 29       | 34    | 51    | 24    | 125   | 12   | 11      | 15    | 16     | 9.6E  | 20E   |
| 24        | 16E   | 29       | 30E   | 47    | 44    | 137   | 11   | 10      | 15    | 16     | 14 E  | 20E   |
| 25        | 16E   | 28E      | 25E   | 44    | 53    | 73    | 11   | 11      | 15    | 16     | 20 E  | 18E   |
| 26        | 17E   | 25E      | 45E   | 41    | 67    | 41    | 11   | 10      | 15    | 16     | 17 E  | 17E   |
| 27        | 16E   | 20E      | 94    | 39    | 118   | 32    | 12   | 11      | 15    | 16     | 15 E  | 16E   |
| 28        | 15E   | 23E      | 94    | 37    | 164   | 27    | 12   | 10      | 15    | 16     | 15 E  | 15E   |
| 29        | 15E   | 25E      | 96    | 36    | 182   | 22    | 11   | 10      | 15    | 17     | 20 E  | 14E   |
| 30        | 14E   | -----    | 98    | 35    | 196   | 19    | 11   | 10      | 15    | 12E    | 25 E  | 15E   |
| 31        | 13E   | -----    | 110   | ----- | 188   | ----- | 11   | 11      | ----- | 12E    | ----- | 15E   |
| TOTAL     | 491   | 995      | 1,215 | 1,942 | 1,794 | 2,163 | 405  | 1,056.4 | 396   | 481    | 439.2 | 643   |
| MEAN      | 15.8  | 34.3     | 39.2  | 64.7  | 57.9  | 72.1  | 13.1 | 34.1    | 13.2  | 15.5   | 14.6  | 20.7  |
| MAX       | 20    | 70       | 110   | 108   | 196   | 178   | 17   | 156     | 19    | 28     | 25    | 28    |
| MIN       | 12    | 12       | 18    | 35    | 24    | 19    | 11   | 8.8     | 10    | 12     | 9.6   | 14    |
| AC-FT     | 974   | 1,970    | 2,410 | 3,850 | 3,560 | 4,290 | 803  | 2,100   | 785   | 954    | 871   | 1,280 |
| YEAR 1996 | TOTAL | 12,020.6 | MEAN  | 32.8  | MAX   | 196   | MIN  | 8.8     | AC-FT | 23,840 |       |       |

# PLATTE RIVER BASIN (ELKHORN RIVER)

**WILLOW CREEK RESERVOIR from Willow Creek, 00410300 - 1996**

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

DRAINAGE AREA.--210 square miles.

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

PERIOD OF RECORD.--1983 - present

REMARKS.--E indicates estimated daily contents. Estimated contents March 10-17, 19-29, April 3-4, 6-30, May 1-5, December 3.

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

DAILY CONTENTS IN ACRE-FEET FOR 1996

| Day       | JAN   | FEB   | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   | OCT   | NOV   | DEC    |
|-----------|-------|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|
| 1         | 7,170 | 7,080 | 7,230  | 7,500  | 7,230E | 8,800  | 7,420 | 6,860 | 6,960 | 7,040 | 7,110 | 7,450  |
| 2         | 7,170 | 7,060 | 7,220  | 7,630  | 7,240E | 8,910  | 7,360 | 6,850 | 6,940 | 7,010 | 7,120 | 7,430  |
| 3         | 7,170 | 7,060 | 7,200  | 7,720E | 7,240E | 8,790  | 7,320 | 6,840 | 6,940 | 7,020 | 7,130 | 7,420E |
| 4         | 7,170 | 7,050 | 7,210  | 7,700E | 7,300E | 8,690  | 7,280 | 6,860 | 6,930 | 7,010 | 7,130 | 7,420  |
| 5         | 7,150 | 7,050 | 7,220  | 7,670  | 7,300E | 8,680  | 7,250 | 8,400 | 6,910 | 7,040 | 7,130 | 7,400  |
| 6         | 7,150 | 7,050 | 7,220  | 7,530E | 7,420  | 8,600  | 7,230 | 8,570 | 6,890 | 7,010 | 7,160 | 7,360  |
| 7         | 7,150 | 7,050 | 7,250  | 7,400E | 7,420  | 8,380  | 7,200 | 8,510 | 6,910 | 7,000 | 7,130 | 7,320  |
| 8         | 7,150 | 7,110 | 7,160  | 7,350E | 7,450  | 8,160  | 7,160 | 8,500 | 6,930 | 7,010 | 7,130 | 7,320  |
| 9         | 7,130 | 7,130 | 7,200  | 7,340E | 7,430  | 7,990  | 7,160 | 8,460 | 6,930 | 7,000 | 7,120 | 7,290  |
| 10        | 7,150 | 7,190 | 7,240E | 7,330E | 7,390  | 7,860  | 7,100 | 8,230 | 6,930 | 6,990 | 7,110 | 7,310  |
| 11        | 7,160 | 7,250 | 7,260E | 7,320E | 7,410  | 7,740  | 7,080 | 8,060 | 6,890 | 7,010 | 7,110 | 7,300  |
| 12        | 7,160 | 7,280 | 7,280E | 7,310E | 7,420  | 7,660  | 7,060 | 7,890 | 6,890 | 7,020 | 7,110 | 7,260  |
| 13        | 7,160 | 7,300 | 7,290E | 7,300E | 7,430  | 7,570  | 7,040 | 7,780 | 6,890 | 7,030 | 7,110 | 7,280  |
| 14        | 7,180 | 7,350 | 7,290E | 7,300E | 7,440  | 7,510  | 7,020 | 7,640 | 6,890 | 7,020 | 7,110 | 7,280  |
| 15        | 7,180 | 7,330 | 7,300E | 7,320E | 7,460  | 7,470  | 7,010 | 7,540 | 6,860 | 7,020 | 7,110 | 7,280  |
| 16        | 7,150 | 7,280 | 7,300E | 7,320E | 7,470  | 7,450  | 6,980 | 7,450 | 6,870 | 7,150 | 7,250 | 7,250  |
| 17        | 7,180 | 7,300 | 7,300E | 7,350E | 7,480  | 7,510  | 6,980 | 7,410 | 6,880 | 7,250 | 7,800 | 7,250  |
| 18        | 7,140 | 7,280 | 7,250  | 7,350E | 7,460  | 7,580  | 6,960 | 7,350 | 6,870 | 7,300 | 7,890 | 7,210  |
| 19        | 7,120 | 7,310 | 7,300E | 7,340E | 7,440  | 7,610  | 6,920 | 7,290 | 6,960 | 7,280 | 7,890 | 7,210  |
| 20        | 7,110 | 7,330 | 7,300E | 7,330E | 7,380  | 7,600  | 6,910 | 7,250 | 7,040 | 7,250 | 7,890 | 7,200  |
| 21        | 7,130 | 7,340 | 7,300E | 7,320E | 7,340  | 7,640  | 6,900 | 7,220 | 7,040 | 7,200 | 7,840 | 7,200  |
| 22        | 7,110 | 7,340 | 7,300E | 7,320E | 7,320  | 7,760  | 6,910 | 7,180 | 7,040 | 7,170 | 7,790 | 7,170  |
| 23        | 7,110 | 7,330 | 7,300E | 7,310E | 7,280  | 7,830  | 6,910 | 7,130 | 7,040 | 7,170 | 7,780 | 7,160  |
| 24        | 7,130 | 7,350 | 7,320E | 7,310E | 7,270  | 7,940  | 6,880 | 7,120 | 7,040 | 7,180 | 7,690 | 7,150  |
| 25        | 7,150 | 7,320 | 7,350E | 7,320E | 7,420  | 8,030  | 6,870 | 7,100 | 7,040 | 7,170 | 7,600 | 7,130  |
| 26        | 7,140 | 7,280 | 7,300E | 7,300E | 7,540  | 8,010  | 6,860 | 7,070 | 7,040 | 7,160 | 7,540 | 7,130  |
| 27        | 7,130 | 7,230 | 7,260E | 7,300E | 7,670  | 7,880  | 6,920 | 7,050 | 7,050 | 7,130 | 7,490 | 7,120  |
| 28        | 7,130 | 7,220 | 7,260E | 7,300E | 8,130  | 7,770  | 6,920 | 7,040 | 7,060 | 7,130 | 7,470 | 7,100  |
| 29        | 7,110 | 7,220 | 7,350E | 7,290E | 8,430  | 7,650  | 6,910 | 7,010 | 7,050 | 7,140 | 7,450 | 7,100  |
| 30        | 7,100 | ----- | 7,350  | 7,240E | 8,590  | 7,540  | 6,890 | 6,990 | 7,070 | 7,130 | 7,450 | 7,080  |
| 31        | 7,080 | ----- | 7,410  | -----  | 8,720  | -----  | 6,880 | 6,980 | ----- | 7,110 | ----- | 7,080  |
| MAX       | 7,180 | 7,350 | 7,410  | 7,720  | 8,720  | 8,910  | 7,420 | 8,570 | 7,070 | 7,300 | 7,890 | 7,450  |
| MIN       | 7,080 | 7,050 | 7,160  | 7,240  | 7,230  | 7,450  | 6,860 | 6,840 | 6,870 | 6,990 | 7,110 | 7,080  |
| CHANGE    | -88   | 143   | 189    | -178   | 1,480  | -1,180 | -662  | 94    | 95    | 38    | 344   | -369   |
| YEAR 1996 |       |       | MEAN   | 7,309  | MAX    | 8,910  | MIN   | 6,840 |       |       |       |        |

# PLATTE RIVER BASIN (ELKHORN RIVER)

**WILLOW CREEK near Pierce, 00232500 - 1996**

LOCATION.--SE1/4SW1/4 Sec. 33-26-2 W., Pierce County, Lat. 42° 10' 49", Long. 97° 33' 18", on Willow Creek Dam, Two miles southwest of Pierce.

DRAINAGE AREA.--21 square miles.

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

PERIOD OF RECORD.--1983 - present

REMARKS.--E indicates estimated daily discharge. Estimated daily discharges January 1-8, 18-31, February 1-8, 13-22, March 4-5, July 28-31, September 10-11, 13-22, October 16-22, November 7-20.

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 297 cubic feet per second June 1, gage height 5.97 feet; minimum daily discharge 4.1 cubic feet per second, July 22.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB      | MAR   | APR   | MAY   | JUN   | JUL   | AUG     | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|----------|-------|-------|-------|-------|-------|---------|-------|--------|-------|-------|
| 1         | 23E   | 27E      | 32    | 66    | 35    | 287   | 50    | 4.8     | 12    | 15     | 20    | 47    |
| 2         | 23E   | 27E      | 31    | 68    | 35    | 284   | 47    | 4.2     | 11    | 16     | 19    | 45    |
| 3         | 23E   | 26E      | 29    | 70    | 36    | 254   | 42    | 5.0     | 9.7   | 15     | 19    | 43    |
| 4         | 21E   | 26E      | 35E   | 68    | 41    | 240   | 38    | 5.9     | 8.5   | 14     | 20    | 44    |
| 5         | 22E   | 26E      | 29E   | 66    | 46    | 233   | 36    | 10E     | 6.8   | 15     | 20    | 44    |
| 6         | 22E   | 27E      | 31    | 63    | 47    | 202   | 33    | 213     | 5.8   | 15     | 20    | 42    |
| 7         | 23E   | 27E      | 33    | 59    | 47    | 159   | 31    | 222     | 6.6   | 14     | 24E   | 41    |
| 8         | 24E   | 27E      | 36    | 57    | 46    | 126   | 29    | 201     | 8.6   | 14     | 24E   | 40    |
| 9         | 23    | 28       | 36    | 54    | 47    | 105   | 25    | 197     | 8.7   | 14     | 23E   | 39    |
| 10        | 22    | 30       | 36    | 53    | 48    | 90    | 23    | 167     | 9.5E  | 14     | 22E   | 38    |
| 11        | 23    | 34       | 37    | 52    | 48    | 80    | 20    | 128     | 9.0E  | 13     | 22E   | 37    |
| 12        | 23    | 37       | 38    | 50    | 49    | 70    | 18    | 102     | 8.3   | 14     | 21E   | 36    |
| 13        | 24    | 40E      | 39    | 48    | 50    | 63    | 17    | 85      | 8.0E  | 14     | 21E   | 35    |
| 14        | 25    | 45E      | 40    | 47    | 52    | 57    | 15    | 71      | 7.5E  | 14     | 21E   | 34    |
| 15        | 25    | 44E      | 42    | 50    | 52    | 54    | 7.5   | 61      | 7.0E  | 14     | 26E   | 33    |
| 16        | 25    | 44E      | 43    | 51    | 53    | 58    | 5.0   | 53      | 6.0E  | 20E    | 54E   | 33    |
| 17        | 26    | 43E      | 44    | 54    | 54    | 64    | 4.3   | 48      | 6.0E  | 38E    | 72E   | 32    |
| 18        | 27E   | 43E      | 45    | 55    | 51    | 67    | 5.2   | 43      | 6.1E  | 34E    | 78E   | 31    |
| 19        | 26E   | 42E      | 45    | 53    | 47    | 68    | 6.7   | 38      | 7.0E  | 39E    | 82E   | 30    |
| 20        | 26E   | 41E      | 44    | 51    | 43    | 69    | 6.6   | 34      | 8.0E  | 28E    | 85E   | 30    |
| 21        | 26E   | 40E      | 43    | 49    | 41    | 78    | 5.8   | 31      | 9.0E  | 26E    | 64    | 29    |
| 22        | 26E   | 39E      | 43    | 49    | 38    | 87    | 4.1   | 29      | 10 E  | 24E    | 80    | 28    |
| 23        | 26E   | 38       | 43    | 48    | 37    | 97    | 7.4   | 26      | 11    | 22E    | 76    | 27    |
| 24        | 27E   | 37       | 53    | 47    | 41    | 109   | 8.8   | 24      | 10    | 22     | 67    | 27    |
| 25        | 28E   | 36       | 57    | 48    | 56    | 114   | 8.6   | 22      | 11    | 22     | 59    | 26    |
| 26        | 29E   | 35       | 45    | 43    | 66    | 101   | 8.1   | 21      | 12    | 22     | 56    | 25    |
| 27        | 30E   | 34       | 37    | 41    | 98    | 87    | 7.1   | 20      | 14    | 21     | 52    | 24    |
| 28        | 29E   | 34       | 37    | 39    | 167   | 75    | 7.5E  | 18      | 13    | 20     | 48    | 24    |
| 29        | 29E   | 33       | 41    | 36    | 205   | 64    | 7.0E  | 16      | 12    | 20     | 47    | 23    |
| 30        | 29E   | -----    | 47    | 36    | 233   | 56    | 6.5E  | 14      | 13    | 21     | 48    | 23    |
| 31        | 28E   | -----    | 55    | ----- | 254   | ----- | 6.0E  | 13      | ----- | 20     | ----- | 22    |
| TOTAL     | 783   | 1,010    | 1,246 | 1,571 | 2,165 | 3,500 | 536.2 | 2,024.9 | 275.1 | 614    | 1,310 | 1,032 |
| MEAN      | 25.3  | 34.8     | 40.2  | 52.4  | 69.8  | 117   | 17.3  | 65.3    | 9.17  | 19.8   | 43.7  | 33.3  |
| MAX       | 30    | 45       | 57    | 70    | 254   | 287   | 50    | 222     | 14    | 39     | 85    | 47    |
| MIN       | 21    | 26       | 29    | 36    | 35    | 54    | 4.1   | 4.2     | 5.8   | 13     | 19    | 22    |
| AC-FT     | 1,550 | 2,000    | 2,470 | 3,120 | 4,290 | 6,940 | 1,060 | 4,020   | 546   | 1,220  | 2,600 | 2,050 |
| YEAR 1996 | TOTAL | 16,067.2 | MEAN  | 43.9  | MAX   | 287   | MIN   | 4.1     | AC-FT | 31,870 |       |       |



# PLATTE RIVER BASIN (ELKHORN RIVER)

## UNION CREEK at Madison, 06799230 - 1996

LOCATION.--SW1/4SE1/4 Sec. 32-22-1 W., Madison County, Lat. 41° 49' 52", Long. 97° 27' 19", on left bank 12 feet downstream from bridge on old U.S. highway 81, in Madison.

DRAINAGE AREA.--173.76 square miles (111,206 acres)

GAGE.--Continuous stage recorder. Datum of gage is 1549.70 feet, National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1978 - present

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

E indicates estimated daily discharges. Estimated records January 6-10, 31-February 7, 21-March 4, October 31-November 7. Records good, except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,380 cubic feet per second August 5, gage height 16.64 feet; minimum daily discharge 14 cubic feet per second July 16.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 26    | 20E    | 26E   | 43    | 28    | 130   | 25    | 18    | 21    | 20     | 20E   | 27    |
| 2         | 26    | 20E    | 26E   | 58    | 30    | 80    | 24    | 16    | 20    | 19     | 22E   | 26    |
| 3         | 26    | 25E    | 25E   | 48    | 38    | 51    | 25    | 16    | 19    | 19     | 21E   | 24    |
| 4         | 26    | 27E    | 24E   | 40    | 45    | 45    | 27    | 39    | 18    | 19     | 20E   | 24    |
| 5         | 26    | 30E    | 26    | 33    | 37    | 43    | 26    | 1,110 | 17    | 19     | 22E   | 23    |
| 6         | 25E   | 37E    | 26    | 31    | 34    | 49    | 24    | 378   | 17    | 19     | 21E   | 24    |
| 7         | 23E   | 29E    | 25    | 31    | 31    | 47    | 24    | 46    | 20    | 19     | 21E   | 25    |
| 8         | 24E   | 234    | 24    | 31    | 30    | 43    | 22    | 33    | 21    | 19     | 22    | 25    |
| 9         | 26E   | 173    | 24    | 31    | 99    | 39    | 21    | 29    | 21    | 19     | 22    | 26    |
| 10        | 27E   | 94     | 27    | 31    | 171   | 38    | 19    | 27    | 20    | 19     | 22    | 25    |
| 11        | 29    | 44     | 28    | 30    | 58    | 34    | 16    | 27    | 19    | 18     | 23    | 25    |
| 12        | 30    | 36     | 28    | 31    | 45    | 31    | 16    | 27    | 18    | 19     | 23    | 24    |
| 13        | 31    | 34     | 28    | 30    | 46    | 29    | 15    | 27    | 18    | 20     | 23    | 25    |
| 14        | 30    | 32     | 28    | 32    | 44    | 28    | 16    | 25    | 18    | 17     | 23    | 27    |
| 15        | 27    | 28     | 28    | 34    | 44    | 29    | 16    | 24    | 19    | 19     | 34    | 27    |
| 16        | 27    | 27     | 27    | 35    | 41    | 60    | 14    | 24    | 19    | 20     | 149   | 28    |
| 17        | 28    | 27     | 27    | 33    | 39    | 87    | 19    | 24    | 18    | 18     | 291   | 25    |
| 18        | 30    | 28     | 27    | 30    | 35    | 53    | 23    | 25    | 19    | 19     | 59    | 24    |
| 19        | 25    | 29     | 26    | 31    | 32    | 33    | 17    | 23    | 28    | 19     | 43    | 23    |
| 20        | 24    | 29     | 27    | 30    | 33    | 37    | 17    | 27    | 44    | 19     | 36    | 23    |
| 21        | 24    | 28E    | 26    | 31    | 32    | 64    | 18    | 25    | 40    | 18     | 35    | 23    |
| 22        | 24    | 28E    | 28    | 30    | 33    | 42    | 21    | 23    | 27    | 19     | 33    | 24    |
| 23        | 24    | 27E    | 28    | 29    | 33    | 39    | 146   | 22    | 22    | 20     | 30    | 23    |
| 24        | 24    | 27E    | 28    | 28    | 38    | 39    | 31    | 24    | 19    | 20     | 29    | 25    |
| 25        | 23    | 26E    | 20    | 26    | 80    | 33    | 18    | 18    | 21    | 20     | 29    | 24    |
| 26        | 23    | 26E    | 31    | 25    | 69    | 31    | 16    | 18    | 20    | 19     | 27    | 24    |
| 27        | 24    | 25E    | 30    | 26    | 527   | 29    | 43    | 18    | 20    | 19     | 26    | 24    |
| 28        | 23    | 25E    | 31    | 28    | 312   | 28    | 64    | 19    | 20    | 20     | 25    | 25    |
| 29        | 22    | 27E    | 42    | 28    | 87    | 27    | 27    | 20    | 20    | 22     | 28    | 25    |
| 30        | 22    | -----  | 44    | 29    | 57    | 26    | 20    | 20    | 20    | 23     | 28    | 26    |
| 31        | 21E   | -----  | 40    | ----- | 54    | ----- | 19    | 21    | ----- | 22E    | ----- | 26    |
| TOTAL     | 790   | 1,242  | 875   | 973   | 2,282 | 1,344 | 829   | 2,193 | 643   | 601    | 1,207 | 769   |
| MEAN      | 25.5  | 42.8   | 28.2  | 32.4  | 73.6  | 44.8  | 26.7  | 70.7  | 21.4  | 19.4   | 40.2  | 24.8  |
| MAX       | 31    | 234    | 44    | 58    | 527   | 130   | 146   | 1,110 | 44    | 23     | 291   | 28    |
| MIN       | 21    | 20     | 20    | 25    | 28    | 26    | 14    | 16    | 17    | 17     | 20    | 23    |
| AC-FT     | 1,570 | 2,460  | 1,740 | 1,930 | 4,530 | 2,670 | 1,640 | 4,350 | 1,280 | 1,190  | 2,390 | 1,530 |
| YEAR 1996 | TOTAL | 13,748 | MEAN  | 37.6  | MAX   | 1,110 | MIN   | 14    | AC-FT | 27,270 |       |       |

**PLATTE RIVER BASIN  
(ELKHORN RIVER)**

**PEBBLE CREEK at Scribner, 06799385 - 1996**

LOCATION.--NW1/4SE1/4 Sec. 36-20-6E., Dodge County, Lat. 41° 39' 34", Long 96° 41' 00", on right bank 12 feet downstream from bridge on blacktop county road one mile west and one-quarter mile south of scribner.

DRAINAGE AREA.--203.52 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,234.72 feet above mean sea level.

PERIOD OF RECORD.--1978 - present

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

E indicates estimated daily discharge. Estimated records January 1-February 7, 16-17, 27-March 3, 20-22, 24-April 1, May 1-7, August 8-September 5, November 24-30, December 14-31. Records fair, except estimated records poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 30,300 cubic feet per second August 5, 1996, gage height 24.48 feet; minimum daily discharge 0.29 cubic feet per second July 20, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge 30,300 cubic feet per second August 5, gage height 24.48 feet; minimum daily discharge estimated at 27 cubic feet per second January 26-31, February 2-3.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY    | JUN    | JUL   | AUG    | SEP   | OCT     | NOV   | DEC   |
|-----------|-------|--------|-------|-------|--------|--------|-------|--------|-------|---------|-------|-------|
| 1         | 36E   | 28E    | 30E   | 40E   | 34E    | 783    | 66    | 51     | 50E   | 42      | 35    | 52    |
| 2         | 35E   | 27E    | 31E   | 39    | 34E    | 174    | 61    | 49     | 54E   | 39      | 36    | 49    |
| 3         | 35E   | 27E    | 33E   | 40    | 44E    | 125    | 56    | 49     | 58E   | 38      | 37    | 47    |
| 4         | 34E   | 28E    | 43    | 40    | 61E    | 106    | 73    | 978    | 60E   | 38      | 38    | 46    |
| 5         | 33E   | 29E    | 39    | 38    | 59E    | 98     | 59    | 13,600 | 54E   | 39      | 38    | 48    |
| 6         | 32E   | 31E    | 40    | 39    | 45E    | 235    | 57    | 582    | 49    | 38      | 36    | 46    |
| 7         | 31E   | 90E    | 40    | 39    | 40E    | 117    | 58    | 232    | 55    | 35      | 35    | 45    |
| 8         | 34E   | 412    | 49    | 37    | 39     | 90     | 52    | 170E   | 58    | 36      | 32    | 44    |
| 9         | 36E   | 233    | 44    | 34    | 186    | 80     | 47    | 135E   | 48    | 37      | 30    | 42    |
| 10        | 38E   | 167    | 44    | 30    | 288    | 74     | 47    | 110E   | 45    | 36      | 30    | 41    |
| 11        | 39E   | 104    | 38    | 29    | 90     | 68     | 46    | 94E    | 43    | 35      | 31    | 41    |
| 12        | 41E   | 86     | 39    | 31    | 64     | 65     | 45    | 84E    | 42    | 36      | 32    | 41    |
| 13        | 42E   | 83     | 35    | 31    | 71     | 98     | 41    | 80E    | 42    | 35      | 33    | 41    |
| 14        | 41E   | 67     | 31    | 31    | 60     | 61     | 39    | 78E    | 43    | 36      | 33    | 34E   |
| 15        | 38E   | 45     | 30    | 29    | 71     | 61     | 38    | 70E    | 42    | 35      | 40    | 33E   |
| 16        | 36E   | 36E    | 30    | 29    | 58     | 115    | 275   | 64E    | 41    | 35      | 92    | 36E   |
| 17        | 33E   | 38E    | 30    | 29    | 53     | 64     | 452   | 58E    | 41    | 35      | 131   | 33E   |
| 18        | 31E   | 42     | 30    | 28    | 47     | 59     | 116   | 54E    | 40    | 35      | 55    | 30E   |
| 19        | 30E   | 38     | 29    | 28    | 44     | 57     | 64    | 60E    | 51    | 35      | 52    | 33E   |
| 20        | 29E   | 40     | 30E   | 30    | 41     | 686    | 54    | 52E    | 83    | 34      | 51    | 33E   |
| 21        | 29E   | 38     | 32E   | 37    | 39     | 8,090  | 54    | 46E    | 54    | 35      | 49    | 35E   |
| 22        | 28E   | 36     | 32E   | 33    | 38     | 365    | 203   | 45E    | 45    | 36      | 46    | 35E   |
| 23        | 28E   | 36     | 32    | 29    | 83     | 2,210  | 98    | 44E    | 117   | 37      | 45    | 36E   |
| 24        | 28E   | 35     | 30E   | 34    | 697    | 365    | 79    | 45E    | 66    | 37      | 36E   | 36E   |
| 25        | 28E   | 33     | 33E   | 46    | 2,130  | 183    | 64    | 47E    | 51    | 36      | 35E   | 35E   |
| 26        | 27E   | 32     | 33E   | 85    | 442    | 154    | 53    | 45E    | 51    | 37      | 38E   | 34E   |
| 27        | 27E   | 33E    | 35E   | 48    | 1,840  | 121    | 122   | 43E    | 47    | 33      | 38E   | 35E   |
| 28        | 27E   | 32E    | 60E   | 41    | 578    | 103    | 160   | 41E    | 45    | 32      | 39E   | 35E   |
| 29        | 27E   | 31E    | 80E   | 37    | 233    | 86     | 65    | 40E    | 42    | 35      | 40E   | 36E   |
| 30        | 27E   | -----  | 50E   | 37    | 173    | 73     | 56    | 41E    | 41    | 35      | 50E   | 37E   |
| 31        | 27E   | -----  | 40E   | ----- | 346    | -----  | 52    | 45E    | ----- | 35      | ----- | 38E   |
| TOTAL     | 1,007 | 1,957  | 1,172 | 1,098 | 8,028  | 14,968 | 2,754 | 17,132 | 1,558 | 1,117   | 1,313 | 1,209 |
| MEAN      | 32.5  | 67.5   | 37.8  | 36.6  | 259    | 499    | 88.8  | 553    | 51.9  | 36.0    | 43.8  | 39.0  |
| MAX       | 42    | 412    | 80    | 85    | 2,130  | 8,090  | 452   | 13,600 | 117   | 42      | 131   | 52    |
| MIN       | 27    | 27     | 29    | 28    | 34     | 57     | 38    | 40     | 40    | 32      | 30    | 30    |
| AC-FT     | 2,000 | 3,880  | 2,320 | 2,180 | 15,920 | 29,690 | 5,460 | 33,980 | 3,090 | 2,220   | 2,600 | 2,400 |
| YEAR 1996 | TOTAL | 53,313 | MEAN  | 146   | MAX    | 13,600 | MIN   | 27     | AC-FT | 105,700 |       |       |

# PLATTE RIVER BASIN (ELKHORN RIVER)

## LOGAN CREEK at Pender, 06799450 - 1996

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

DRAINAGE AREA.--731 square miles.

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

PERIOD OF RECORD.--1965 - present

REMARKS.--Published by U. S. Geological Survey up to October 1, 1993  
E indicates estimated daily discharge. Estimated records January 1-February 17, 28-March 6, 24-27, May 7-June 9, August 5-12, December 18-31. Records fair, except estimated records 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 2,870 cubic feet per second August 5, gage height 10.17 feet; minimum daily discharge 80 cubic feet per second estimated January 4.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT     | NOV    | DEC    |
|-----------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| 1         | 90E   | 104E   | 104E   | 536    | 175    | 430E   | 218    | 163    | 132    | 168     | 172    | 257    |
| 2         | 86E   | 100E   | 120E   | 611    | 181    | 360E   | 216    | 150    | 126    | 191     | 173    | 244    |
| 3         | 84E   | 106E   | 130E   | 409    | 201    | 330E   | 223    | 149    | 314    | 182     | 173    | 226    |
| 4         | 80E   | 110E   | 140E   | 253    | 245    | 320E   | 226    | 240    | 524    | 176     | 176    | 235    |
| 5         | 82E   | 120E   | 150E   | 212    | 219    | 350E   | 228    | 1,900E | 194    | 177     | 175    | 271    |
| 6         | 84E   | 130E   | 160E   | 209    | 193    | 340E   | 246    | 1,100E | 158    | 177     | 172    | 248    |
| 7         | 90E   | 135E   | 172    | 214    | 185E   | 330E   | 222    | 500E   | 154    | 175     | 171    | 238    |
| 8         | 92E   | 280E   | 364    | 213    | 250E   | 300E   | 208    | 350E   | 253    | 175     | 171    | 234    |
| 9         | 94E   | 250E   | 306    | 212    | 340E   | 280E   | 199    | 280E   | 198    | 174     | 169    | 230    |
| 10        | 96E   | 200E   | 279    | 211    | 300E   | 262    | 192    | 240E   | 166    | 174     | 171    | 246    |
| 11        | 100E  | 180E   | 272    | 216    | 260E   | 252    | 189    | 225E   | 155    | 173     | 171    | 252    |
| 12        | 110E  | 150E   | 237    | 223    | 250E   | 242    | 188    | 215E   | 146    | 175     | 171    | 255    |
| 13        | 120E  | 140E   | 178    | 225    | 280E   | 235    | 184    | 207    | 143    | 171     | 171    | 253    |
| 14        | 130E  | 130E   | 167    | 221    | 280E   | 229    | 178    | 200    | 141    | 170     | 173    | 260    |
| 15        | 110E  | 120E   | 154    | 233    | 270E   | 230    | 176    | 190    | 141    | 175     | 188    | 229    |
| 16        | 100E  | 140E   | 151    | 251    | 250E   | 390    | 199    | 180    | 138    | 174     | 774    | 231    |
| 17        | 110E  | 165E   | 150    | 243    | 230E   | 898    | 1,230  | 174    | 138    | 958     | 1,040  | 208    |
| 18        | 106E  | 171    | 148    | 226    | 210E   | 379    | 637    | 171    | 136    | 379     | 400    | 165E   |
| 19        | 104E  | 176    | 146    | 217    | 190E   | 310    | 285    | 173    | 147    | 222     | 310    | 160E   |
| 20        | 100E  | 176    | 140    | 229    | 170E   | 297    | 226    | 167    | 224    | 207     | 278    | 160E   |
| 21        | 104E  | 167    | 156    | 231    | 160E   | 918    | 216    | 169    | 222    | 191     | 259    | 155E   |
| 22        | 104E  | 158    | 157    | 224    | 165E   | 758    | 213    | 174    | 170    | 183     | 241    | 160E   |
| 23        | 102E  | 158    | 165    | 219    | 180E   | 430    | 213    | 166    | 156    | 182     | 239    | 150E   |
| 24        | 100E  | 157    | 170E   | 203    | 200E   | 375    | 203    | 158    | 155    | 177     | 200    | 140E   |
| 25        | 100E  | 156    | 180E   | 197    | 300E   | 313    | 192    | 158    | 150    | 177     | 210    | 155E   |
| 26        | 104E  | 150    | 180E   | 190    | 500E   | 282    | 179    | 156    | 189    | 175     | 215    | 155E   |
| 27        | 104E  | 128    | 175E   | 182    | 800E   | 263    | 177    | 154    | 184    | 164     | 223    | 150E   |
| 28        | 102E  | 116E   | 180    | 181    | 600E   | 247    | 187    | 156    | 158    | 162     | 231    | 140E   |
| 29        | 100E  | 110E   | 329    | 181    | 500E   | 232    | 181    | 153    | 154    | 171     | 237    | 150E   |
| 30        | 100E  | -----  | 1,040  | 179    | 480E   | 224    | 170    | 164    | 153    | 180     | 289    | 155E   |
| 31        | 102E  | -----  | 638    | -----  | 450E   | -----  | 164    | 164    | -----  | 175     | -----  | 155E   |
| TOTAL     | 3,090 | 4,383  | 7,048  | 7,351  | 9,014  | 10,806 | 7,765  | 8,746  | 5,421  | 6,510   | 7,743  | 6,267  |
| MEAN      | 99.7  | 151    | 227    | 245    | 291    | 360    | 250    | 282    | 181    | 210     | 258    | 202    |
| MAX       | 130   | 280    | 1,040  | 611    | 800    | 918    | 1,230  | 1,900  | 524    | 958     | 1,040  | 271    |
| MIN       | 80    | 100    | 104    | 179    | 160    | 224    | 164    | 149    | 128    | 162     | 169    | 140    |
| AC-FT     | 6,130 | 8,690  | 13,980 | 14,580 | 17,880 | 21,430 | 15,400 | 17,350 | 10,750 | 12,910  | 15,360 | 12,430 |
| YEAR 1996 | TOTAL | 84,144 | MEAN   | 230    | MAX    | 1,900  | MIN    | 80     | AC-FT  | 166,900 |        |        |

# PLATTE RIVER BASIN (SALT CREEK)

## OAK CREEK at Lincoln, 00227700 - 1996

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

DRAINAGE AREA.--240 square miles.

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

PERIOD OF RECORD.--1987 - present

REMARKS.--E indicates estimated daily discharge. Estimated daily discharges; January 1-February 8, February 11-21, February 25-March 11, March 19-21, March 25-29, November 23-December 8, December 13-31.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 8,730 cubic feet per second July 24, 1993, gage height 22.66 feet. Minimum daily discharge, 2.8 cubic feet per second on August 2, 1989.

EXTREMES FOR CURRENT YEAR.--Peak discharge 4,640 cubic feet per second May 27, gage height 15.66 feet; minimum daily discharge 60 cubic feet per second estimated February 2.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB      | MAR   | APR   | MAY    | JUN    | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|----------|-------|-------|--------|--------|-------|-------|-------|--------|-------|-------|
| 1         | 18 E  | 7.4E     | 17E   | 38    | 39     | 610    | 163   | 48    | 56    | 31     | 24    | 48E   |
| 2         | 17 E  | 6.0E     | 16E   | 37    | 36     | 384    | 145   | 45    | 53    | 29     | 23    | 48E   |
| 3         | 17 E  | 6.8E     | 18E   | 37    | 36     | 311    | 128   | 44    | 51    | 28     | 24    | 40E   |
| 4         | 16 E  | 10 E     | 21E   | 38    | 36     | 262    | 141   | 46    | 49    | 27     | 25    | 49E   |
| 5         | 15 E  | 16 E     | 19E   | 35    | 35     | 229    | 129   | 51    | 46    | 27     | 24    | 54E   |
| 6         | 13 E  | 27 E     | 14E   | 34    | 34     | 205    | 111   | 46    | 43    | 26     | 22    | 49E   |
| 7         | 11 E  | 40 E     | 12E   | 33    | 33     | 190    | 101   | 151   | 73    | 25     | 23    | 49E   |
| 8         | 12 E  | 130 E    | 14E   | 32    | 43     | 158    | 94    | 61    | 75    | 25     | 22    | 50E   |
| 9         | 15 E  | 212      | 20E   | 31    | 1,530  | 139    | 85    | 51    | 49    | 25     | 25    | 51    |
| 10        | 18 E  | 132      | 26E   | 31    | 1,010  | 142    | 77    | 44    | 43    | 25     | 23    | 51    |
| 11        | 19 E  | 54 E     | 31E   | 32    | 427    | 133    | 71    | 40    | 43    | 24     | 23    | 51    |
| 12        | 21 E  | 48 E     | 31    | 31    | 316    | 165    | 68    | 38    | 50    | 25     | 22    | 50    |
| 13        | 22 E  | 37 E     | 31    | 31    | 305    | 132    | 66    | 36    | 51    | 26     | 22    | 49    |
| 14        | 18 E  | 30 E     | 30    | 33    | 347    | 135    | 61    | 37    | 49    | 23     | 22    | 48E   |
| 15        | 16 E  | 26 E     | 30    | 37    | 253    | 114    | 58    | 47    | 50    | 22     | 25    | 40E   |
| 16        | 17 E  | 22 E     | 29    | 36    | 380    | 138    | 53    | 153   | 50    | 23     | 106   | 29E   |
| 17        | 17 E  | 26 E     | 29    | 33    | 478    | 123    | 52    | 96    | 48    | 22     | 176   | 24E   |
| 18        | 15 E  | 28 E     | 29    | 31    | 274    | 108    | 52    | 61    | 46    | 29     | 78    | 21E   |
| 19        | 14 E  | 29 E     | 29E   | 31    | 230    | 88     | 48    | 61    | 74    | 26     | 64    | 23E   |
| 20        | 15 E  | 30 E     | 28E   | 33    | 193    | 78     | 67    | 67    | 74    | 24     | 61    | 21E   |
| 21        | 18 E  | 30 E     | 28E   | 35    | 157    | 1,230  | 65    | 56    | 46    | 23     | 60    | 30E   |
| 22        | 19 E  | 30       | 29    | 32    | 136    | 865    | 62    | 71    | 38    | 25     | 58    | 27E   |
| 23        | 19 E  | 30       | 29    | 31    | 297    | 2,100  | 94    | 150   | 36    | 25     | 58E   | 22E   |
| 24        | 18 E  | 31       | 30    | 30    | 212    | 744    | 69    | 86    | 34    | 26     | 44E   | 19E   |
| 25        | 17 E  | 28 E     | 24E   | 29    | 190    | 449    | 58    | 77    | 36    | 24     | 39E   | 22E   |
| 26        | 16 E  | 20 E     | 20E   | 30    | 297    | 341    | 52    | 125   | 40    | 24     | 38E   | 20E   |
| 27        | 15 E  | 18 E     | 25E   | 27    | 3,090  | 282    | 50    | 194   | 38    | 23     | 40E   | 22E   |
| 28        | 15 E  | 15 E     | 32E   | 31    | 1,340  | 262    | 73    | 75    | 36    | 23     | 46E   | 24E   |
| 29        | 12 E  | 18 E     | 35E   | 47    | 713    | 221    | 70    | 69    | 33    | 24     | 50E   | 28E   |
| 30        | 11 E  | -----    | 33    | 48    | 557    | 190    | 55    | 64    | 32    | 28     | 49E   | 29E   |
| 31        | 8.8E  | -----    | 39    | ----- | 500    | -----  | 50    | 60    | ----- | 25     | ----- | 30E   |
| TOTAL     | 494.8 | 1,137.2  | 803   | 1,014 | 13,524 | 10,528 | 2,468 | 2,250 | 1,442 | 782    | 1,316 | 1,118 |
| MEAN      | 16.0  | 39.2     | 25.9  | 33.8  | 436    | 351    | 79.6  | 72.6  | 48.1  | 25.2   | 43.9  | 36.1  |
| MAX       | 22    | 212      | 39    | 48    | 3,090  | 2,100  | 163   | 194   | 75    | 31     | 176   | 54    |
| MIN       | 8.8   | 6.0      | 12    | 27    | 33     | 78     | 48    | 36    | 32    | 22     | 22    | 19    |
| AC-FT     | 981   | 2,260    | 1,590 | 2,010 | 26,820 | 20,880 | 4,900 | 4,460 | 2,860 | 1,550  | 2,610 | 2,220 |
| YEAR 1996 | TOTAL | 36,877.0 | MEAN  | 101   | MAX    | 3,090  | MIN   | 6.0   | AC-FT | 73,150 |       |       |

# REPUBLICAN RIVER BASIN

**HAIGLER CANAL from Republican River, 00061000 - 1996**

LOCATION.--Sec. 2-1-43 W. near Laird, CO

GAGE.--Continuous stage recorder and 5 ft. Parshall flume

PERIOD OF RECORD.--1927, 1941, 1949 - 1956, 1962 - present

REMARKS.--Values furnished by the State of Colorado

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| 1         |     |       |     | 0     | 18    | 12    | 19    | 27    | 6.6   | 12    |       |     |
| 2         |     |       |     | 0     | 18    | 11    | 16    | 27    | 5.6   | 10    |       |     |
| 3         |     |       |     | 0     | 17    | 5.6   | 16    | 28    | 12    | 6.3   |       |     |
| 4         |     |       |     | 0     | 18    | 0     | 18    | 24    | 15    | 5.8   |       |     |
| 5         |     |       |     | 0     | 26    | 0     | 35    | 14    | 15    | 6.2   |       |     |
| 6         |     |       |     | 0     | 32    | 0     | 31    | 13    | 14    | 10    |       |     |
| 7         |     |       |     | 0     | 34    | 0     | 13    | 12    | 20    | 24    |       |     |
| 8         |     |       |     | 0     | 34    | 0     | 14    | 14    | 23    | 14    |       |     |
| 9         |     |       |     | 0     | 33    | 0     | 13    | 27    | 23    | 3.5   |       |     |
| 10        |     |       |     | 0     | 35    | 20    | 12    | 24    | 23    | 3.2   |       |     |
| 11        |     |       |     | 0     | 36    | 31    | 18    | 14    | 23    | 3.5   |       |     |
| 12        |     |       |     | 0     | 36    | 28    | 21    | 20    | 24    | 3.8   |       |     |
| 13        |     |       |     | 0     | 35    | 25    | 15    | 28    | 15    | 3.8   |       |     |
| 14        |     |       |     | 0     | 34    | 25    | 25    | 26    | 10    | 10    |       |     |
| 15        |     |       |     | 0     | 29    | 26    | 27    | 23    | 12    | 20    |       |     |
| 16        |     |       |     | 0     | 26    | 31    | 25    | 23    | 13    | 18    |       |     |
| 17        |     |       |     | 0     | 25    | 29    | 26    | 22    | 13    | 11    |       |     |
| 18        |     |       |     | 0     | 21    | 28    | 26    | 22    | 15    | 12    |       |     |
| 19        |     |       |     | 0     | 19    | 28    | 26    | 21    | 13    | 19    |       |     |
| 20        |     |       |     | 0     | 18    | 27    | 17    | 23    | 13    | 18    |       |     |
| 21        |     |       |     | 0     | 20    | 28    | 14    | 24    | 13    | 16    |       |     |
| 22        |     |       |     | 0     | 20    | 27    | 19    | 11    | 13    | 3.3   |       |     |
| 23        |     |       |     | 0     | 21    | 27    | 23    | 11    | 13    | 0     |       |     |
| 24        |     |       |     | 7.1   | 25    | 19    | 24    | 10    | 13    | 0     |       |     |
| 25        |     |       |     | 10    | 25    | 17    | 26    | 9.8   | 13    | 0     |       |     |
| 26        |     |       |     | 12    | 17    | 24    | 27    | 9.0   | 13    | 0     |       |     |
| 27        |     |       |     | 9.0   | 14    | 22    | 15    | 8.0   | 13    | 0     |       |     |
| 28        |     |       |     | 9.6   | 13    | 22    | 14    | 5.2   | 8.3   | 0     |       |     |
| 29        |     |       |     | 6.5   | 11    | 22    | 15    | 4.6   | 5.9   | 0     |       |     |
| 30        |     | ----- |     | 13    | 15    | 20    | 14    | 7.1   | 7.7   | 0     |       |     |
| 31        |     | ----- |     | ----- | 13    | ----- | 22    | 7.1   | ----- | 0     | ----- |     |
| TOTAL     |     |       |     | 67.2  | 738   | 554.6 | 626   | 538.8 | 421.1 | 233.4 |       |     |
| MEAN      |     |       |     | 2.24  | 23.8  | 18.5  | 20.2  | 17.4  | 14.0  | 7.53  |       |     |
| MAX       |     |       |     | 13    | 36    | 31    | 35    | 28    | 24    | 24    |       |     |
| MIN       |     |       |     | 0     | 11    | 0     | 12    | 4.6   | 5.6   | 0     |       |     |
| AC-FT     |     |       |     | 133   | 1,460 | 1,100 | 1,240 | 1,070 | 835   | 463   |       |     |
| YEAR 1996 | MAX | 36    | MIN | 0     | AC-FT | 6,310 |       |       |       |       |       |     |

# REPUBLICAN RIVER BASIN

**HAIGLER CANAL from Republican River, 00061400 - 1996**

LOCATION.--NE1/4NW1/4 Sec. 15-1-42 W. at Colorado - Nebraska State line

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

PERIOD OF RECORD.--1985 - present

REMARKS.--Values furnished by the State of Colorado

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|--------|-------|-----|
| 1         |     |       |     | 0     | 15    | 24    | 12    | 24    | 5.7   | 8.7    |       |     |
| 2         |     |       |     | 0     | 14    | 24    | 11    | 22    | 5.0   | 9.1    |       |     |
| 3         |     |       |     | 0     | 13    | 17    | 8.9   | 24    | 7.0   | 4.1    |       |     |
| 4         |     |       |     | 0     | 13    | 0     | 6.6   | 24    | 13    | 3.6    |       |     |
| 5         |     |       |     | 0     | 14    | 0     | 22    | 14    | 11    | 4.4    |       |     |
| 6         |     |       |     | 0     | 19    | 0     | 24    | 12    | 10    | 5.9    |       |     |
| 7         |     |       |     | 0     | 22    | 0     | 13    | 10    | 11    | 14     |       |     |
| 8         |     |       |     | 0     | 24    | 0     | 10    | 8.9   | 16    | 12     |       |     |
| 9         |     |       |     | 0     | 26    | 0     | 8.3   | 19    | 12    | 7.2    |       |     |
| 10        |     |       |     | 0     | 28    | 12    | 7.9   | 20    | 15    | 1.4    |       |     |
| 11        |     |       |     | 0     | 29    | 27    | 7.0   | 9.7   | 18    | 1.8    |       |     |
| 12        |     |       |     | 0     | 29    | 23    | 11    | 12    | 16    | 2.4    |       |     |
| 13        |     |       |     | 0     | 28    | 22    | 9.5   | 21    | 12    | 2.8    |       |     |
| 14        |     |       |     | 0     | 28    | 24    | 18    | 16    | 7.7   | 7.6    |       |     |
| 15        |     |       |     | 0     | 26    | 27    | 26    | 13    | 12    | 4.5    |       |     |
| 16        |     |       |     | 0     | 21    | 27    | 14    | 14    | 14    | 13     |       |     |
| 17        |     |       |     | 0     | 22    | 27    | 18    | 16    | 13    | 3.7    |       |     |
| 18        |     |       |     | 0     | 19    | 27    | 19    | 17    | 15    | 7.6    |       |     |
| 19        |     |       |     | 0     | 16    | 27    | 24    | 18    | 12    | 19     |       |     |
| 20        |     |       |     | 0     | 15    | 26    | 18    | 18    | 11    | 18     |       |     |
| 21        |     |       |     | 0     | 17    | 27    | 11    | 16    | 12    | 19     |       |     |
| 22        |     |       |     | 0     | 18    | 26    | 11    | 14    | 12    | 15     |       |     |
| 23        |     |       |     | 0     | 20    | 27    | 14    | 10    | 12    | 1.6    |       |     |
| 24        |     |       |     | 0     | 24    | 25    | 15    | 8.3   | 13    | 0      |       |     |
| 25        |     |       |     | .10   | 27    | 20    | 18    | 7.3   | 13    | 0      |       |     |
| 26        |     |       |     | .49   | 23    | 15    | 28    | 7.0   | 13    | 0      |       |     |
| 27        |     |       |     | .42   | 15    | 14    | 13    | 6.2   | 13    | 0      |       |     |
| 28        |     |       |     | 3.3   | 12    | 14    | 11    | 4.2   | 11    | 0      |       |     |
| 29        |     |       |     | 3.6   | 10    | 14    | 13    | 3.1   | 4.4   | 0      |       |     |
| 30        |     | ----- |     | 7.4   | 19    | 13    | 12    | 7.3   | 4.4   | 0      |       |     |
| 31        |     | ----- |     | ----- | 25    | ----- | 16    | 6.4   | ----- | 0      | ----- |     |
| TOTAL     |     |       |     | 15.31 | 631   | 529   | 450.2 | 422.4 | 344.2 | 178.48 |       |     |
| MEAN      |     |       |     | .51   | 20.4  | 17.6  | 14.5  | 13.6  | 11.5  | 5.76   |       |     |
| MAX       |     |       |     | 7.4   | 29    | 27    | 28    | 24    | 18    | 19     |       |     |
| MIN       |     |       |     | 0     | 10    | 0     | 6.6   | 3.1   | 4.4   | 0      |       |     |
| AC-FT     |     |       |     | 30    | 1,250 | 1,050 | 893   | 838   | 683   | 354    |       |     |
| YEAR 1996 | MAX | 29    | MIN | 0     | AC-FT | 5,100 |       |       |       |        |       |     |

# REPUBLICAN RIVER BASIN

## HAIGLER CANAL SPILLBACK to Arikaree River, 00061500 - 1996

LOCATION.--NW1/4NE1/4 Sec. 36-1-42 W. near Haigler

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

PERIOD OF RECORD.--1965, 1987 - present

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| 1         |     |       |     |       | 6.1   | 4.4   | 2.9   | 8.1   | 4.1   | 3.4   |       |     |
| 2         |     |       |     |       | 7.0   | 3.0   | 2.5   | 6.3   | 3.9   | 5.4   |       |     |
| 3         |     |       |     |       | 5.3   | 2.5   | 2.4   | 6.5   | 3.4   | 4.1   |       |     |
| 4         |     |       |     |       | 4.0   | 1.3   | 2.5   | 11    | 5.4   | 3.0   |       |     |
| 5         |     |       |     |       | 4.8   | 0     | 2.8   | 12    | 4.7   | 3.0   |       |     |
| 6         |     |       |     |       | 4.4   | 0     | 2.9   | 11    | 4.4   | 3.1   |       |     |
| 7         |     |       |     |       | 5.8   | 0     | 2.7   | 9.9   | 3.6   | 4.4   |       |     |
| 8         |     |       |     |       | 5.9   | 0     | 2.9   | 6.1   | 3.5   | 3.8   |       |     |
| 9         |     |       |     |       | 4.7   | 0     | 3.1   | 8.3   | 3.6   | 3.0   |       |     |
| 10        |     |       |     |       | 5.0   | 0     | 2.9   | 12    | 3.5   | 2.9   |       |     |
| 11        |     |       |     |       | 6.5   | 14    | 3.1   | 9.4   | 3.4   | 2.8   |       |     |
| 12        |     |       |     |       | 6.5   | 16    | 3.2   | 4.3   | 4.2   | 2.7   |       |     |
| 13        |     |       |     |       | 8.6   | 11    | 3.3   | 7.8   | 5.7   | 2.7   |       |     |
| 14        |     |       |     |       | 8.8   | 7.0   | 3.5   | 4.6   | 4.7   | 2.7   |       |     |
| 15        |     |       |     |       | 4.0   | 6.7   | 5.2   | 4.3   | 4.6   | 2.8   |       |     |
| 16        |     |       |     |       | 0     | 4.8   | 3.4   | 4.5   | 6.8   | 2.8   |       |     |
| 17        |     |       |     |       | 0     | 2.8   | 3.8   | 7.6   | 9.6   | 2.9   |       |     |
| 18        |     |       |     |       | 0     | 2.3   | 6.2   | 6.0   | 12    | 2.8   |       |     |
| 19        |     |       |     |       | 0     | 2.4   | 8.6   | 9.9   | 11    | 2.9   |       |     |
| 20        |     |       |     |       | 0     | 2.8   | 12    | 9.6   | 9.7   | 4.8   |       |     |
| 21        |     |       |     |       | 0     | 7.5   | 6.5   | 12    | 8.9   | .69   |       |     |
| 22        |     |       |     |       | 0     | 12    | 3.8   | 12    | 9.0   | 0     |       |     |
| 23        |     |       |     |       | 2.8   | 15    | 4.8   | 9.4   | 8.5   | 0     |       |     |
| 24        |     |       |     |       | 2.8   | 14    | 4.7   | 8.3   | 7.5   | 0     |       |     |
| 25        |     |       |     |       | 4.3   | 7.7   | 5.2   | 5.4   | 7.4   | 0     |       |     |
| 26        |     |       |     |       | 9.4   | 11    | 12    | 5.2   | 7.9   | 0     |       |     |
| 27        |     |       |     |       | 6.7   | 14    | 12    | 4.5   | 7.0   | 0     |       |     |
| 28        |     |       |     |       | 6.4   | 12    | 7.2   | 3.2   | 6.9   | 0     |       |     |
| 29        |     |       |     |       | 4.8   | 12    | 7.8   | 3.1   | 4.7   | 0     |       |     |
| 30        |     | ----- |     |       | 3.8   | 9.4   | 10    | 3.5   | 3.2   | 0     |       |     |
| 31        |     | ----- |     | ----- | 11    | ----- | 7.2   | 5.5   | ----- | 0     | ----- |     |
| TOTAL     |     |       |     |       | 139.4 | 195.6 | 161.1 | 231.3 | 183.0 | 66.69 |       |     |
| MEAN      |     |       |     |       | 4.50  | 6.52  | 5.20  | 7.46  | 6.10  | 2.15  |       |     |
| MAX       |     |       |     |       | 11    | 16    | 12    | 12    | 12    | 5.4   |       |     |
| MIN       |     |       |     |       | 0     | 0     | 2.4   | 3.1   | 3.2   | 0     |       |     |
| AC-FT     |     |       |     |       | 276   | 388   | 320   | 459   | 363   | 132   |       |     |
| YEAR 1996 | MAX | 16    | MIN | 0     | AC-FT | 1,940 |       |       |       |       |       |     |

# REPUBLICAN RIVER BASIN

**MEEKER-DRIFTWOOD CANAL from Republican River, 00087000 - 1996**

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

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

PERIOD OF RECORD.--1957 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL    | AUG    | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|--------|--------|-------|-----|-------|-----|
| 1         |     |       |     |       |       | 0      | 103    | 147    | 135   |     |       |     |
| 2         |     |       |     |       |       | 0      | 127    | 152    | 135   |     |       |     |
| 3         |     |       |     |       |       | 0      | 194    | 154    | 146   |     |       |     |
| 4         |     |       |     |       |       | 0      | 248    | 153    | 151   |     |       |     |
| 5         |     |       |     |       |       | 0      | 284    | 181    | 140   |     |       |     |
| 6         |     |       |     |       |       | 0      | 245    | 202    | 61    |     |       |     |
| 7         |     |       |     |       |       | 0      | 295    | 197    | 0     |     |       |     |
| 8         |     |       |     |       |       | 0      | 302    | 180    | 0     |     |       |     |
| 9         |     |       |     |       |       | 0      | 305    | 174    | 0     |     |       |     |
| 10        |     |       |     |       |       | 0      | 305    | 174    | 0     |     |       |     |
| 11        |     |       |     |       |       | 0      | 305    | 174    | 0     |     |       |     |
| 12        |     |       |     |       |       | 0      | 277    | 206    | 0     |     |       |     |
| 13        |     |       |     |       |       | 0      | 262    | 247    | 0     |     |       |     |
| 14        |     |       |     |       |       | 0      | 261    | 259    | 0     |     |       |     |
| 15        |     |       |     |       |       | 0      | 260    | 258    | 0     |     |       |     |
| 16        |     |       |     |       |       | 0      | 247    | 211    | 0     |     |       |     |
| 17        |     |       |     |       |       | 0      | 240    | 189    | 0     |     |       |     |
| 18        |     |       |     |       |       | 46     | 241    | 189    | 0     |     |       |     |
| 19        |     |       |     |       |       | 60     | 255    | 179    | 0     |     |       |     |
| 20        |     |       |     |       |       | 58     | 197    | 174    | 0     |     |       |     |
| 21        |     |       |     |       |       | 58     | 162    | 174    | 0     |     |       |     |
| 22        |     |       |     |       |       | 57     | 162    | 147    | 0     |     |       |     |
| 23        |     |       |     |       |       | 58     | 168    | 105    | 0     |     |       |     |
| 24        |     |       |     |       |       | 57     | 177    | 91     | 0     |     |       |     |
| 25        |     |       |     |       |       | 85     | 173    | 91     | 0     |     |       |     |
| 26        |     |       |     |       |       | 99     | 128    | 138    | 0     |     |       |     |
| 27        |     |       |     |       |       | 100    | 107    | 180    | 0     |     |       |     |
| 28        |     |       |     |       |       | 101    | 107    | 186    | 0     |     |       |     |
| 29        |     |       |     |       |       | 102    | 107    | 176    | 0     |     |       |     |
| 30        |     |       |     |       |       | 103    | 112    | 147    | 0     |     |       |     |
| 31        |     | ----- |     | ----- |       | -----  | 136    | 135    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       |       | 984    | 6,492  | 5,370  | 768   |     |       |     |
| MEAN      |     |       |     |       |       | 32.8   | 209    | 173    | 25.6  |     |       |     |
| MAX       |     |       |     |       |       | 103    | 305    | 259    | 151   |     |       |     |
| MIN       |     |       |     |       |       | 0      | 103    | 91     | 0     |     |       |     |
| AC-FT     |     |       |     |       |       | 1,950  | 12,880 | 10,650 | 1,520 |     |       |     |
| YEAR 1996 | MAX | 305   | MIN | 0     | AC-FT | 27,000 |        |        |       |     |       |     |



# REPUBLICAN RIVER BASIN

## SWANSON LAKE near Trenton, 06829000 - 1996

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 Oct. 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 112,500 acre-feet June 23, 24, elevation 2,752.05 feet;  
minimum contents 80,730 acre-feet September 6, elevation 2,745.13 feet.

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

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

### DAILY CONTENTS IN ACRE-FEET FOR 1996

| Day    | JAN    | FEB    | MAR    | APR     | MAY     | JUN     | JUL     | AUG    | SEP    | OCT    | NOV    | DEC    |
|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 1      | 81,220 | 85,080 | 90,400 | 95,840  | 100,300 | 108,500 | 110,200 | 92,280 | 82,210 | 88,620 | 91,450 | 95,580 |
| 2      | 81,330 | 85,160 | 90,440 | 96,020  | 100,500 | 108,900 | 109,700 | 91,930 | 81,980 | 88,700 | 91,490 | 95,890 |
| 3      | 81,410 | 85,240 | 90,660 | 96,120  | 100,600 | 109,200 | 108,900 | 91,580 | 81,750 | 88,790 | 91,620 | 95,940 |
| 4      | 81,520 | 85,330 | 90,790 | 96,250  | 100,700 | 109,600 | 108,100 | 91,230 | 81,480 | 88,880 | 91,800 | 96,070 |
| 5      | 81,640 | 85,370 | 90,920 | 96,430  | 100,800 | 109,900 | 107,100 | 90,920 | 81,280 | 89,050 | 91,880 | 96,120 |
| 6      | 81,790 | 85,460 | 91,100 | 96,610  | 100,900 | 110,300 | 106,200 | 90,610 | 82,880 | 89,140 | 92,020 | 96,300 |
| 7      | 81,830 | 85,500 | 91,180 | 96,700  | 101,100 | 110,400 | 105,200 | 90,480 | 83,060 | 89,350 | 92,150 | 96,520 |
| 8      | 81,940 | 85,580 | 91,270 | 96,930  | 101,400 | 110,500 | 104,300 | 90,140 | 83,100 | 89,530 | 92,190 | 96,570 |
| 9      | 81,980 | 85,750 | 91,490 | 97,060  | 101,500 | 110,500 | 103,400 | 89,700 | 83,150 | 89,570 | 92,330 | 96,840 |
| 10     | 82,210 | 85,960 | 91,710 | 97,200  | 101,700 | 110,700 | 102,400 | 89,270 | 83,150 | 89,610 | 92,370 | 97,060 |
| 11     | 82,300 | 86,130 | 91,880 | 97,380  | 101,800 | 110,800 | 101,500 | 88,790 | 83,100 | 89,740 | 92,460 | 97,240 |
| 12     | 82,480 | 86,430 | 92,060 | 97,470  | 101,900 | 111,000 | 100,700 | 88,270 | 83,060 | 89,830 | 92,590 | 97,430 |
| 13     | 82,700 | 86,730 | 92,190 | 97,520  | 102,100 | 111,100 | 100,000 | 87,800 | 83,060 | 89,960 | 92,680 | 97,650 |
| 14     | 82,920 | 87,120 | 92,460 | 97,840  | 102,200 | 111,600 | 99,710  | 87,200 | 82,920 | 90,090 | 92,860 | 98,020 |
| 15     | 83,200 | 87,460 | 92,640 | 98,020  | 102,300 | 111,800 | 98,980  | 86,730 | 82,920 | 90,140 | 93,030 | 98,020 |
| 16     | 83,380 | 87,630 | 92,860 | 98,150  | 102,400 | 112,000 | 98,660  | 86,470 | 82,920 | 90,310 | 93,340 | 98,110 |
| 17     | 83,780 | 87,890 | 93,170 | 98,380  | 102,600 | 112,100 | 98,020  | 86,010 | 82,920 | 90,400 | 93,340 | 98,250 |
| 18     | 83,830 | 88,230 | 93,430 | 98,610  | 102,600 | 112,200 | 97,380  | 85,540 | 83,960 | 90,350 | 93,520 | 98,250 |
| 19     | 83,830 | 88,490 | 93,570 | 98,790  | 102,600 | 112,200 | 96,750  | 85,080 | 84,420 | 90,350 | 93,700 | 98,250 |
| 20     | 83,830 | 88,660 | 93,740 | 98,840  | 102,600 | 112,200 | 96,610  | 84,600 | 84,780 | 90,480 | 93,880 | 98,250 |
| 21     | 83,870 | 88,880 | 93,970 | 98,930  | 102,600 | 112,200 | 95,980  | 84,190 | 85,710 | 90,480 | 94,060 | 98,250 |
| 22     | 84,010 | 89,180 | 94,100 | 98,980  | 102,600 | 112,400 | 95,440  | 84,100 | 86,220 | 90,530 | 94,190 | 98,340 |
| 23     | 84,140 | 89,400 | 94,280 | 99,110  | 102,800 | 112,500 | 94,860  | 84,050 | 86,690 | 90,530 | 94,370 | 98,430 |
| 24     | 84,240 | 89,440 | 94,630 | 99,250  | 102,900 | 112,500 | 94,460  | 83,870 | 86,940 | 90,610 | 94,460 | 98,520 |
| 25     | 84,320 | 89,610 | 94,590 | 99,570  | 103,300 | 112,400 | 94,100  | 83,740 | 87,540 | 90,740 | 94,500 | 98,610 |
| 26     | 84,510 | 89,790 | 94,720 | 99,620  | 104,300 | 112,200 | 93,830  | 83,470 | 87,710 | 91,010 | 94,630 | 98,700 |
| 27     | 84,600 | 89,920 | 94,860 | 99,760  | 105,300 | 112,100 | 93,610  | 83,100 | 87,890 | 90,961 | 94,810 | 98,700 |
| 28     | 84,780 | 90,000 | 95,080 | 99,940  | 105,900 | 111,900 | 93,210  | 82,660 | 88,060 | 91,010 | 94,990 | 98,840 |
| 29     | 84,820 | 90,140 | 95,310 | 100,000 | 106,500 | 111,300 | 93,030  | 82,340 | 88,270 | 91,360 | 95,220 | 98,880 |
| 30     | 84,860 | -----  | 95,530 | 100,200 | 106,900 | 110,900 | 92,720  | 82,520 | 88,400 | 91,320 | 95,440 | 98,980 |
| 31     | 84,910 | -----  | 95,710 | -----   | 107,800 | -----   | 92,370  | 82,430 | -----  | 91,320 | -----  | 99,110 |
| MAX    | 84,910 | 90,140 | 95,710 | 100,200 | 107,800 | 112,500 | 110,200 | 92,280 | 88,400 | 91,360 | 95,440 | 99,110 |
| MIN    | 81,220 | 85,080 | 90,400 | 95,840  | 100,300 | 108,500 | 92,370  | 82,340 | 81,180 | 88,620 | 91,450 | 95,580 |
| CHANGE | 3,800  | 5,230  | 5,570  | 4,490   | 7,600   | 3,100   | -18,530 | -9,940 | 5,970  | 2,920  | 4,120  | 3,670  |

YEAR 1996 MEAN 93,943 MAX 112,500 MIN 81,180

# REPUBLICAN RIVER BASIN

**REPUBLICAN RIVER near Trenton, 00126700 - 1996**

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; prior record was for Republican River at Trenton gage, 06829500, located 0.9 miles downstream.

REMARKS.--Current record for period June through August for gate releases from Swanson Reservoir. Record for Republican River at Trenton, 06829500, located 0.9 miles downstream was published by U.S. Geological Survey 1946 - 1993 and Department of Water Resources 1994.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB   | MAR  | APR   | MAY | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC |
|-----------|-------|-------|------|-------|-----|-------|-------|-------|-------|-------|-------|-----|
| 1         |       |       |      |       |     | 0     | 151   | 51    |       |       |       |     |
| 2         |       |       |      |       |     | 0     | 178   | 51    |       |       |       |     |
| 3         |       |       |      |       |     | 0     | 178   | 51    |       |       |       |     |
| 4         |       |       |      |       |     | 0     | 178   | 51    |       |       |       |     |
| 5         |       |       |      |       |     | 0     | 178   | 22    |       |       |       |     |
| 6         |       |       |      |       |     | 0     | 178   | 0     |       |       |       |     |
| 7         |       |       |      |       |     | 0     | 176   | 0     |       |       |       |     |
| 8         |       |       |      |       |     | 0     | 159   | 0     |       |       |       |     |
| 9         |       |       |      |       |     | 0     | 150   | 0     |       |       |       |     |
| 10        |       |       |      |       |     | 0     | 150   | 35    |       |       |       |     |
| 11        |       |       |      |       |     | 0     | 150   | 51    |       |       |       |     |
| 12        |       |       |      |       |     | 0     | 132   | 51    |       |       |       |     |
| 13        |       |       |      |       |     | 0     | 122   | 51    |       |       |       |     |
| 14        |       |       |      |       |     | 0     | 122   | 49    |       |       |       |     |
| 15        |       |       |      |       |     | 0     | 122   | 49    |       |       |       |     |
| 16        |       |       |      |       |     | 0     | 108   | 49    |       |       |       |     |
| 17        |       |       |      |       |     | 0     | 100   | 49    |       |       |       |     |
| 18        |       |       |      |       |     | 0     | 100   | 49    |       |       |       |     |
| 19        |       |       |      |       |     | 0     | 115   | 49    |       |       |       |     |
| 20        |       |       |      |       |     | 0     | 122   | 49    |       |       |       |     |
| 21        |       |       |      |       |     | 0     | 122   | 49    |       |       |       |     |
| 22        |       |       |      |       |     | 0     | 122   | 17    |       |       |       |     |
| 23        |       |       |      |       |     | 0     | 122   | 0     |       |       |       |     |
| 24        |       |       |      |       |     | 0     | 108   | 0     |       |       |       |     |
| 25        |       |       |      |       |     | 0     | 89    | 0     |       |       |       |     |
| 26        |       |       |      |       |     | 0     | 63    | 0     |       |       |       |     |
| 27        |       |       |      |       |     | 0     | 51    | 0     |       |       |       |     |
| 28        |       |       |      |       |     | 53    | 51    | 0     |       |       |       |     |
| 29        |       |       |      |       |     | 101   | 51    | 0     |       |       |       |     |
| 30        |       | ----- |      |       |     | 101   | 51    | 0     |       |       |       |     |
| 31        |       | ----- |      | ----- |     | ----- | 51    | 0     | ----- |       | ----- |     |
| TOTAL     |       |       |      |       |     | 255   | 3,750 | 823   |       |       |       |     |
| MEAN      |       |       |      |       |     | 8.50  | 121   | 26.5  |       |       |       |     |
| MAX       |       |       |      |       |     | 101   | 178   | 51    |       |       |       |     |
| MIN       |       |       |      |       |     | 0     | 51    | 0     |       |       |       |     |
| AC-FT     |       |       |      |       |     | 506   | 7,440 | 1,630 |       |       |       |     |
| YEAR 1996 | TOTAL | 4,828 | MEAN | 52.5  | MAX | 178   | MIN   | 0     | AC-FT | 9,580 |       |     |

# REPUBLICAN RIVER BASIN

## FRENCHMAN CREEK near Imperial, 06831500 - 1996

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 190 cubic feet per second June 1, gage height 2.52 feet; minimum daily discharge 18 cubic feet per second March 25, September 12-13.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 23    | 24    | 27    | 27    | 26    | 119   | 23    | 31    | 23    | 67     | 23    | 25    |
| 2         | 22    | 23    | 26    | 26    | 27    | 95    | 21    | 28    | 22    | 57     | 23    | 24    |
| 3         | 24    | 23    | 25    | 26    | 26    | 54    | 20    | 25    | 22    | 53     | 24    | 24    |
| 4         | 24    | 23    | 25    | 25    | 26    | 40    | 21    | 24    | 21    | 43     | 24    | 24    |
| 5         | 22    | 21    | 24    | 26    | 25    | 34    | 21    | 27    | 20    | 33     | 24    | 24    |
| 6         | 24    | 26    | 22    | 26    | 24    | 30    | 20    | 25    | 20    | 27     | 24    | 25    |
| 7         | 23    | 29    | 24    | 25    | 25    | 28    | 20    | 25    | 21    | 27     | 24    | 25    |
| 8         | 26    | 28    | 24    | 25    | 25    | 27    | 19    | 24    | 21    | 26     | 24    | 25    |
| 9         | 27    | 28    | 25    | 24    | 25    | 27    | 20    | 23    | 21    | 24     | 24    | 25    |
| 10        | 26    | 29    | 25    | 24    | 26    | 26    | 24    | 23    | 20    | 23     | 24    | 25    |
| 11        | 27    | 27    | 25    | 23    | 27    | 27    | 23    | 22    | 19    | 23     | 24    | 25    |
| 12        | 27    | 28    | 25    | 24    | 25    | 26    | 22    | 21    | 18    | 23     | 24    | 26    |
| 13        | 27    | 28    | 26    | 24    | 25    | 26    | 21    | 20    | 18    | 22     | 24    | 26    |
| 14        | 27    | 27    | 26    | 29    | 24    | 26    | 21    | 20    | 19    | 22     | 24    | 25    |
| 15        | 27    | 27    | 26    | 29    | 24    | 28    | 21    | 20    | 21    | 22     | 25    | 23    |
| 16        | 28    | 26    | 26    | 28    | 23    | 32    | 23    | 21    | 22    | 22     | 26    | 25    |
| 17        | 24    | 29    | 26    | 27    | 21    | 29    | 22    | 20    | 21    | 23     | 20    | 18    |
| 18        | 28    | 27    | 27    | 26    | 20    | 30    | 21    | 20    | 24    | 22     | 30    | 20    |
| 19        | 25    | 27    | 26    | 26    | 20    | 29    | 34    | 21    | 25    | 22     | 27    | 21    |
| 20        | 25    | 27    | 26    | 25    | 19    | 27    | 28    | 21    | 23    | 22     | 26    | 25    |
| 21        | 28    | 27    | 26    | 25    | 19    | 27    | 24    | 20    | 23    | 22     | 26    | 27    |
| 22        | 28    | 27    | 25    | 24    | 20    | 27    | 23    | 22    | 26    | 22     | 25    | 27    |
| 23        | 26    | 27    | 25    | 25    | 22    | 27    | 21    | 20    | 29    | 22     | 26    | 23    |
| 24        | 26    | 25    | 25    | 24    | 23    | 26    | 23    | 20    | 36    | 23     | 20    | 23    |
| 25        | 27    | 26    | 18    | 25    | 25    | 25    | 25    | 20    | 73    | 22     | 27    | 24    |
| 26        | 22    | 26    | 27    | 22    | 40    | 24    | 24    | 19    | 69    | 22     | 26    | 22    |
| 27        | 28    | 25    | 32    | 24    | 55    | 23    | 24    | 19    | 57    | 22     | 26    | 24    |
| 28        | 27    | 23    | 29    | 29    | 49    | 24    | 23    | 19    | 47    | 22     | 25    | 26    |
| 29        | 24    | 24    | 29    | 29    | 45    | 24    | 25    | 21    | 36    | 23     | 25    | 26    |
| 30        | 24    | ----- | 29    | 27    | 44    | 23    | 23    | 26    | 48    | 23     | 25    | 26    |
| 31        | 24    | ----- | 27    | ----- | 60    | ----- | 24    | ----- | ----- | 22     | ----- | 27    |
| TOTAL     | 790   | 757   | 798   | 769   | 885   | 1,010 | 704   | 691   | 865   | 848    | 739   | 755   |
| MEAN      | 25.5  | 26.1  | 25.7  | 25.6  | 28.5  | 33.7  | 22.7  | 22.3  | 28.8  | 27.4   | 24.6  | 24.4  |
| MAX       | 28    | 29    | 32    | 29    | 60    | 119   | 34    | 31    | 73    | 67     | 30    | 27    |
| MIN       | 22    | 21    | 18    | 22    | 19    | 23    | 19    | 19    | 18    | 22     | 20    | 18    |
| AC-FT     | 1,570 | 1,500 | 1,580 | 1,530 | 1,760 | 2,000 | 1,400 | 1,370 | 1,720 | 1,680  | 1,470 | 1,500 |
| YEAR 1996 | TOTAL | 9,611 | MEAN  | 26.3  | MAX   | 119   | MIN   | 18    | AC-FT | 19,060 |       |       |

# REPUBLICAN RIVER BASIN

**FRENCHMAN CREEK near Enders, 06832500 - 1996**

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1993.  
E indicates estimated daily discharge. Estimated daily discharges June 1-28, August 28-31. Records good except for periods of estimated record, which is poor. Summary totals are for three month period, June-August.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB      | MAR  | APR  | MAY | JUN   | JUL   | AUG      | SEP   | OCT    | NOV | DEC |
|-----------|-------|----------|------|------|-----|-------|-------|----------|-------|--------|-----|-----|
| 1         |       |          |      |      |     | 1.4E  | 39    | 44       |       |        |     |     |
| 2         |       |          |      |      |     | 1.4E  | 51    | 43       |       |        |     |     |
| 3         |       |          |      |      |     | 1.4E  | 97    | 43       |       |        |     |     |
| 4         |       |          |      |      |     | 1.4E  | 176   | 43       |       |        |     |     |
| 5         |       |          |      |      |     | 1.4E  | 233   | 43       |       |        |     |     |
| 6         |       |          |      |      |     | 1.4E  | 235   | 42       |       |        |     |     |
| 7         |       |          |      |      |     | 1.4E  | 253   | 40       |       |        |     |     |
| 8         |       |          |      |      |     | 1.4E  | 255   | 30       |       |        |     |     |
| 9         |       |          |      |      |     | 1.4E  | 228   | 30       |       |        |     |     |
| 10        |       |          |      |      |     | 1.4E  | 205   | 54       |       |        |     |     |
| 11        |       |          |      |      |     | 1.4E  | 172   | 99       |       |        |     |     |
| 12        |       |          |      |      |     | 1.4E  | 141   | 114      |       |        |     |     |
| 13        |       |          |      |      |     | 1.4E  | 141   | 138      |       |        |     |     |
| 14        |       |          |      |      |     | 1.4E  | 132   | 150      |       |        |     |     |
| 15        |       |          |      |      |     | 1.4E  | 134   | 145      |       |        |     |     |
| 16        |       |          |      |      |     | 1.4E  | 132   | 118      |       |        |     |     |
| 17        |       |          |      |      |     | 1.4E  | 110   | 115      |       |        |     |     |
| 18        |       |          |      |      |     | 1.4E  | 110   | 105      |       |        |     |     |
| 19        |       |          |      |      |     | 1.4E  | 113   | 106      |       |        |     |     |
| 20        |       |          |      |      |     | 1.4E  | 108   | 101      |       |        |     |     |
| 21        |       |          |      |      |     | 1.4E  | 97    | 121      |       |        |     |     |
| 22        |       |          |      |      |     | 1.4E  | 92    | 146      |       |        |     |     |
| 23        |       |          |      |      |     | 1.4E  | 91    | 149      |       |        |     |     |
| 24        |       |          |      |      |     | 1.4E  | 92    | 138      |       |        |     |     |
| 25        |       |          |      |      |     | 1.4E  | 93    | 25       |       |        |     |     |
| 26        |       |          |      |      |     | 1.4E  | 83    | 10       |       |        |     |     |
| 27        |       |          |      |      |     | 1.4E  | 75    | 9.7      |       |        |     |     |
| 28        |       |          |      |      |     | 1.4E  | 46    | .50E     |       |        |     |     |
| 29        |       |          |      |      |     | 44    | 44    | .50E     |       |        |     |     |
| 30        |       |          |      |      |     | 40    | 44    | .50E     |       |        |     |     |
| 31        |       |          |      |      |     | 44    | 44    | .50E     |       |        |     |     |
| TOTAL     |       |          |      |      |     | 123.2 | 3,866 | 2,203.70 |       |        |     |     |
| MEAN      |       |          |      |      |     | 4.11  | 125   | 71.1     |       |        |     |     |
| MAX       |       |          |      |      |     | 44    | 255   | 150      |       |        |     |     |
| MIN       |       |          |      |      |     | 1.4   | 39    | .50      |       |        |     |     |
| AC-FT     |       |          |      |      |     | 244   | 7,670 | 4,370    |       |        |     |     |
| YEAR 1996 | TOTAL | 6,192.90 | MEAN | 67.3 | MAX | 255   | MIN   | .50      | AC-FT | 12,280 |     |     |

# REPUBLICAN RIVER BASIN

## STINKING WATER CREEK near Palisade, 06835000 - 1996

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

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

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

PERIOD OF RECORD.--1949 - present

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

E indicates estimated daily discharge. Estimated records January 2-10, 18-February 5, 9-19, 28-March 1, 7-9, 18-21, 25-26, December 16-28. Records good, except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 169 cubic feet per second June 1, gage height 5.37 feet; minimum daily discharge 18 cubic feet per second July 13, 15, 20, 23-24.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 24    | 20E   | 26E   | 31    | 31    | 135   | 21    | 28    | 26    | 28     | 26    | 25    |
| 2         | 24E   | 20E   | 27    | 30    | 30    | 81    | 21    | 35    | 25    | 26     | 25    | 25    |
| 3         | 24E   | 21E   | 29    | 28    | 29    | 69    | 21    | 27    | 25    | 26     | 24    | 27    |
| 4         | 24E   | 23E   | 28    | 28    | 28    | 59    | 20    | 25    | 24    | 26     | 24    | 25    |
| 5         | 24E   | 25E   | 28    | 27    | 28    | 47    | 19    | 40    | 23    | 26     | 24    | 28    |
| 6         | 23E   | 26    | 28    | 27    | 27    | 41    | 19    | 32    | 23    | 26     | 24    | 25    |
| 7         | 23E   | 27    | 26E   | 28    | 27    | 37    | 19    | 29    | 45    | 26     | 23    | 26    |
| 8         | 24E   | 27    | 25E   | 28    | 27    | 35    | 19    | 24    | 45    | 26     | 23    | 26    |
| 9         | 25E   | 27E   | 26E   | 28    | 27    | 32    | 19    | 22    | 25    | 26     | 22    | 25    |
| 10        | 26E   | 27E   | 26    | 27    | 27    | 30    | 19    | 22    | 24    | 27     | 22    | 26    |
| 11        | 28    | 26E   | 29    | 27    | 26    | 29    | 19    | 22    | 28    | 26     | 22    | 25    |
| 12        | 27    | 25E   | 29    | 27    | 26    | 28    | 19    | 21    | 25    | 25     | 22    | 25    |
| 13        | 27    | 27E   | 29    | 26    | 26    | 39    | 18    | 21    | 23    | 25     | 22    | 25    |
| 14        | 27    | 26E   | 29    | 27    | 26    | 49    | 19    | 21    | 22    | 24     | 22    | 25    |
| 15        | 27    | 25E   | 28    | 28    | 26    | 36    | 18    | 22    | 22    | 24     | 23    | 25    |
| 16        | 27    | 24E   | 29    | 30    | 25    | 35    | 20    | 23    | 23    | 24     | 25    | 24E   |
| 17        | 27    | 25E   | 29    | 31    | 24    | 39    | 19    | 24    | 24    | 24     | 24    | 23E   |
| 18        | 26E   | 27E   | 28E   | 29    | 24    | 38    | 19    | 24    | 27    | 26     | 24    | 22E   |
| 19        | 24E   | 29E   | 27E   | 29    | 23    | 41    | 19    | 23    | 26    | 28     | 23    | 21E   |
| 20        | 25E   | 30    | 26E   | 27    | 22    | 43    | 18    | 24    | 29    | 27     | 24    | 21E   |
| 21        | 26E   | 31    | 27E   | 26    | 21    | 33    | 19    | 23    | 30    | 27     | 25    | 22E   |
| 22        | 27E   | 30    | 29    | 26    | 21    | 30    | 19    | 25    | 28    | 28     | 25    | 21E   |
| 23        | 26E   | 29    | 30    | 26    | 22    | 29    | 18    | 43    | 26    | 27     | 25    | 20E   |
| 24        | 24E   | 28    | 29    | 27    | 22    | 27    | 18    | 24    | 25    | 27     | 25    | 20E   |
| 25        | 22E   | 28    | 28E   | 26    | 22    | 26    | 19    | 22    | 35    | 27     | 24    | 20E   |
| 26        | 21E   | 27    | 27E   | 26    | 33    | 25    | 23    | 21    | 45    | 28     | 22    | 21E   |
| 27        | 22E   | 27    | 28    | 25    | 55    | 24    | 23    | 20    | 45    | 27     | 22    | 23E   |
| 28        | 20E   | 26E   | 30    | 27    | 71    | 23    | 23    | 19    | 37    | 27     | 23    | 25E   |
| 29        | 21E   | 25E   | 32    | 31    | 72    | 22    | 21    | 19    | 31    | 26     | 23    | 28    |
| 30        | 22E   | ----- | 34    | 32    | 60    | 22    | 20    | 20    | 29    | 27     | 24    | 28    |
| 31        | 21E   | ----- | 33    | ----- | 120   | ----- | 20    | 24    | ----- | 26     | ----- | 28    |
| TOTAL     | 758   | 758   | 879   | 835   | 1,048 | 1,204 | 608   | 769   | 865   | 813    | 706   | 750   |
| MEAN      | 24.5  | 26.1  | 28.4  | 27.8  | 33.8  | 40.1  | 19.6  | 24.8  | 28.8  | 26.2   | 23.5  | 24.2  |
| MAX       | 28    | 31    | 34    | 32    | 120   | 135   | 23    | 43    | 45    | 28     | 26    | 28    |
| MIN       | 20    | 20    | 25    | 25    | 21    | 22    | 18    | 19    | 22    | 24     | 22    | 20    |
| AC-FT     | 1,500 | 1,500 | 1,740 | 1,660 | 2,080 | 2,390 | 1,210 | 1,530 | 1,720 | 1,610  | 1,400 | 1,490 |
| YEAR 1996 | TOTAL | 9,993 | MEAN  | 27.3  | MAX   | 135   | MIN   | 18    | AC-FT | 19,820 |       |       |

# REPUBLICAN RIVER BASIN

**CULBERTSON CANAL from Frenchman River, 00035000 - 1996**

LOCATION.--SW1/4NW1/4 Sec. 32-5-33 W. near Palisade

GAGE.--Continuous stage recorder and Parshall flume

PERIOD OF RECORD.--1920 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 44    | 41     | 63    | 71    |       |     |       |     |
| 2         |     |       |     | 23    | 44    | 40     | 68    | 82    |       |     |       |     |
| 3         |     |       |     | 49    | 43    | 40     | 69    | 84    |       |     |       |     |
| 4         |     |       |     | 54    | 43    | 39     | 82    | 83    |       |     |       |     |
| 5         |     |       |     | 52    | 44    | 38     | 122   | 82    |       |     |       |     |
| 6         |     |       |     | 32    | 44    | 38     | 180   | 91    |       |     |       |     |
| 7         |     |       |     | 32    | 43    | 39     | 196   | 99    |       |     |       |     |
| 8         |     |       |     | 31    | 44    | 38     | 211   | 96    |       |     |       |     |
| 9         |     |       |     | 37    | 46    | 38     | 222   | 79    |       |     |       |     |
| 10        |     |       |     | 45    | 42    | 39     | 213   | 65    |       |     |       |     |
| 11        |     |       |     | 49    | 39    | 40     | 203   | 57    |       |     |       |     |
| 12        |     |       |     | 49    | 39    | 40     | 183   | 89    |       |     |       |     |
| 13        |     |       |     | 43    | 39    | 45     | 163   | 116   |       |     |       |     |
| 14        |     |       |     | 49    | 38    | 48     | 157   | 137   |       |     |       |     |
| 15        |     |       |     | 39    | 44    | 47     | 152   | 146   |       |     |       |     |
| 16        |     |       |     | 36    | 46    | 49     | 150   | 149   |       |     |       |     |
| 17        |     |       |     | 36    | 45    | 48     | 151   | 136   |       |     |       |     |
| 18        |     |       |     | 37    | 44    | 49     | 137   | 128   |       |     |       |     |
| 19        |     |       |     | 38    | 43    | 48     | 132   | 128   |       |     |       |     |
| 20        |     |       |     | 48    | 41    | 49     | 133   | 130   |       |     |       |     |
| 21        |     |       |     | 55    | 41    | 49     | 133   | 113   |       |     |       |     |
| 22        |     |       |     | 46    | 40    | 49     | 129   | 133   |       |     |       |     |
| 23        |     |       |     | 39    | 44    | 49     | 122   | 148   |       |     |       |     |
| 24        |     |       |     | 40    | 44    | 54     | 121   | 160   |       |     |       |     |
| 25        |     |       |     | 41    | 44    | 57     | 114   | 165   |       |     |       |     |
| 26        |     |       |     | 41    | 44    | 55     | 120   | 136   |       |     |       |     |
| 27        |     |       |     | 42    | 43    | 53     | 93    | 89    |       |     |       |     |
| 28        |     |       |     | 42    | 42    | 51     | 80    | 75    |       |     |       |     |
| 29        |     |       |     | 41    | 41    | 49     | 78    | 72    |       |     |       |     |
| 30        |     | ----- |     | 43    | 41    | 48     | 72    | 25    |       |     |       |     |
| 31        |     | ----- |     | ----- | 44    | -----  | 70    | 0     | ----- |     | ----- |     |
| TOTAL     |     |       |     | 1,209 | 1,323 | 1,367  | 4,119 | 3,164 |       |     |       |     |
| MEAN      |     |       |     | 40.3  | 42.7  | 45.6   | 133   | 102   |       |     |       |     |
| MAX       |     |       |     | 55    | 46    | 57     | 222   | 165   |       |     |       |     |
| MIN       |     |       |     | 0     | 38    | 38     | 63    | 0     |       |     |       |     |
| AC-FT     |     |       |     | 2,400 | 2,620 | 2,710  | 8,170 | 6,280 |       |     |       |     |
| YEAR 1996 | MAX | 222   | MIN | 0     | AC-FT | 22,180 |       |       |       |     |       |     |

## REPUBLICAN RIVER BASIN

## RIVERSIDE CANAL from Frenchman River, 00127000 - 1996

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 FOR 1996

| Day       | JAN | FEB | MAR | APR | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV | DEC |
|-----------|-----|-----|-----|-----|-------|--------|-------|-------|-------|-----|-----|-----|
| 1         |     |     |     |     | 0     | .18    | 13    | 0     | 15    |     |     |     |
| 2         |     |     |     |     | 0     | 0      | 14    | 0     | 15    |     |     |     |
| 3         |     |     |     |     | 0     | 7.6    | 16    | 0     | 15    |     |     |     |
| 4         |     |     |     |     | 0     | 12     | 17    | 0     | 15    |     |     |     |
| 5         |     |     |     |     | 0     | 11     | 18    | 2.1   | 14    |     |     |     |
| 6         |     |     |     |     | 0     | 10     | 18    | 7.8   | 15    |     |     |     |
| 7         |     |     |     |     | 0     | 9.3    | 17    | 12    | 15    |     |     |     |
| 8         |     |     |     |     | 0     | 8.7    | 17    | 9.6   | 16    |     |     |     |
| 9         |     |     |     |     | 0     | 8.4    | 16    | 8.1   | 15    |     |     |     |
| 10        |     |     |     |     | 0     | 7.9    | 17    | 9.5   | 15    |     |     |     |
| 11        |     |     |     |     | 0     | 7.5    | 17    | 14    | 14    |     |     |     |
| 12        |     |     |     |     | 0     | 7.6    | 17    | 14    | 14    |     |     |     |
| 13        |     |     |     |     | 0     | 7.0    | 17    | 14    | 14    |     |     |     |
| 14        |     |     |     |     | 0     | 8.5    | 17    | 14    | 14    |     |     |     |
| 15        |     |     |     |     | 0     | 8.9    | 14    | 14    | 14    |     |     |     |
| 16        |     |     |     |     | 0     | 7.4    | 15    | 16    | 14    |     |     |     |
| 17        |     |     |     |     | 0     | 0      | 16    | 15    | 14    |     |     |     |
| 18        |     |     |     |     | 0     | 0      | 15    | 14    | 5.2   |     |     |     |
| 19        |     |     |     |     | 0     | 0      | 15    | 14    | 0     |     |     |     |
| 20        |     |     |     |     | 2.6   | 0      | 14    | 14    | 0     |     |     |     |
| 21        |     |     |     |     | 9.8   | 0      | 14    | 14    | 0     |     |     |     |
| 22        |     |     |     |     | 8.9   | 0      | 12    | 14    | 0     |     |     |     |
| 23        |     |     |     |     | 8.5   | 0      | 10    | 16    | 0     |     |     |     |
| 24        |     |     |     |     | 8.8   | 0      | 10    | 15    | 0     |     |     |     |
| 25        |     |     |     |     | 9.3   | 0      | 11    | 14    | 0     |     |     |     |
| 26        |     |     |     |     | 12    | 0      | 6.0   | 13    | 0     |     |     |     |
| 27        |     |     |     |     | 16    | 4.2    | 0     | 13    | 0     |     |     |     |
| 28        |     |     |     |     | 17    | 12     | 0     | 13    | 0     |     |     |     |
| 29        |     |     |     |     | 17    | 12     | 0     | 13    | 0     |     |     |     |
| 30        |     |     |     |     | 16    | 12     | 0     | 16    | 0     |     |     |     |
| 31        |     |     |     |     | 6.5   |        | 0     | 16    |       |     |     |     |
| TOTAL     |     |     |     |     | 132.4 | 162.18 | 383.0 | 349.1 | 253.2 |     |     |     |
| MEAN      |     |     |     |     | 4.27  | 5.41   | 12.4  | 11.3  | 8.44  |     |     |     |
| MAX       |     |     |     |     | 17    | 12     | 18    | 16    | 16    |     |     |     |
| MIN       |     |     |     |     | 0     | 0      | 0     | 0     | 0     |     |     |     |
| AC-FT     |     |     |     |     | 263   | 322    | 760   | 692   | 502   |     |     |     |
| YEAR 1996 | MAX | 18  | MIN | 0   | AC-FT | 2,540  |       |       |       |     |     |     |

# REPUBLICAN RIVER BASIN

## RED WILLOW CREEK above Hugh Butler Lake, 06837300 - 1996

LOCATION.--NE1/4SE1/4 Sec. 13-5-31 W., Hayes County, Lat. 40°24'05", Long. 100°46'45", on the left bank 15 feet upstream from the County road bridge; 7.0 miles upstream from Red Willow Dam; 12 miles northeast of Culbertson and 16 miles north west of McCook.

DRAINAGE AREA.--Approximately 600 square miles; approximately 200 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,588.80 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1960 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994.  
E indicates estimated daily discharge. Estimated records January 1-11, 19-February 19, 29-March 3, 8-10, 26-27, November 16-17, 25-26, December 18-31. Records good except estimated records 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 413 cubic feet per second May 31, gage height 9.06 feet; minimum daily discharge 13 cubic feet per second July 5-10, 12-13.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 20E   | 15E   | 22E   | 33    | 33    | 78    | 15    | 74    | 19    | 22     | 22    | 26    |
| 2         | 18E   | 14E   | 23E   | 32    | 33    | 48    | 14    | 54    | 19    | 21     | 23    | 27    |
| 3         | 16E   | 16E   | 23E   | 30    | 30    | 41    | 14    | 56    | 18    | 20     | 23    | 26    |
| 4         | 17E   | 17E   | 24    | 29    | 29    | 35    | 14    | 35    | 18    | 20     | 24    | 25    |
| 5         | 17E   | 19E   | 25    | 27    | 28    | 29    | 13    | 54    | 19    | 20     | 23    | 25    |
| 6         | 15E   | 20E   | 26    | 26    | 26    | 150   | 13    | 34    | 18    | 19     | 22    | 24    |
| 7         | 14E   | 22E   | 24    | 26    | 25    | 67    | 13    | 30    | 18    | 20     | 23    | 22    |
| 8         | 16E   | 23E   | 23E   | 26    | 25    | 59    | 13    | 26    | 18    | 20     | 23    | 23    |
| 9         | 18E   | 24E   | 22E   | 26    | 25    | 57    | 13    | 24    | 26    | 19     | 23    | 22    |
| 10        | 19E   | 25E   | 23E   | 25    | 25    | 44    | 13    | 22    | 40    | 19     | 23    | 22    |
| 11        | 20E   | 24E   | 24    | 25    | 25    | 32    | 14    | 21    | 42    | 19     | 24    | 23    |
| 12        | 22    | 23E   | 25    | 25    | 24    | 31    | 13    | 20    | 49    | 19     | 23    | 24    |
| 13        | 23    | 22E   | 28    | 24    | 24    | 28    | 13    | 19    | 31    | 19     | 23    | 24    |
| 14        | 23    | 24E   | 29    | 26    | 23    | 24    | 16    | 19    | 22    | 19     | 24    | 25    |
| 15        | 23    | 25E   | 29    | 28    | 23    | 22    | 16    | 20    | 20    | 19     | 25    | 26    |
| 16        | 22    | 23E   | 29    | 29    | 22    | 28    | 20    | 21    | 19    | 19     | 25    | 26    |
| 17        | 22    | 21E   | 29    | 31    | 21    | 25    | 19    | 20    | 19    | 19     | 24E   | 26    |
| 18        | 22    | 23E   | 30    | 32    | 20    | 24    | 18    | 19    | 85    | 19     | 25E   | 24E   |
| 19        | 18E   | 25E   | 30    | 29    | 19    | 24    | 18    | 21    | 249   | 19     | 26    | 22E   |
| 20        | 15E   | 27    | 30    | 27    | 18    | 24    | 19    | 26    | 131   | 19     | 27    | 23E   |
| 21        | 17E   | 28    | 29    | 25    | 17    | 25    | 29    | 24    | 50    | 19     | 29    | 23E   |
| 22        | 18E   | 27    | 28    | 25    | 16    | 22    | 25    | 25    | 39    | 19     | 30    | 22E   |
| 23        | 20E   | 19    | 27    | 23    | 16    | 22    | 22    | 35    | 34    | 19     | 30    | 21E   |
| 24        | 19E   | 24    | 27    | 23    | 17    | 21    | 21    | 48    | 29    | 18     | 27    | 20E   |
| 25        | 18E   | 27    | 26    | 23    | 18    | 20    | 22    | 28    | 30    | 18     | 24E   | 20E   |
| 26        | 16E   | 28    | 25E   | 23    | 26    | 19    | 26    | 23    | 32    | 18     | 24E   | 20E   |
| 27        | 15E   | 26    | 26E   | 22    | 49    | 18    | 30    | 20    | 29    | 18     | 25    | 20E   |
| 28        | 16E   | 25    | 28    | 24    | 69    | 17    | 30    | 19    | 29    | 18     | 26    | 21E   |
| 29        | 16E   | 24E   | 30    | 28    | 72    | 16    | 29    | 18    | 27    | 18     | 24    | 21E   |
| 30        | 17E   | ----- | 34    | 31    | 74    | 15    | 38    | 19    | 24    | 20     | 25    | 22E   |
| 31        | 16E   | ----- | 34    | ----- | 194   | ----- | 61    | 20    | ----- | 22     | ----- | 22E   |
| TOTAL     | 568   | 660   | 822   | 803   | 1,066 | 1,065 | 634   | 894   | 1,203 | 597    | 739   | 717   |
| MEAN      | 18.3  | 22.8  | 26.8  | 26.8  | 34.4  | 35.5  | 20.5  | 28.8  | 40.1  | 19.3   | 24.6  | 23.1  |
| MAX       | 23    | 28    | 34    | 33    | 194   | 150   | 61    | 74    | 249   | 22     | 30    | 27    |
| MIN       | 14    | 14    | 22    | 22    | 16    | 15    | 13    | 18    | 18    | 18     | 22    | 20    |
| AC-FT     | 1,130 | 1,310 | 1,650 | 1,590 | 2,110 | 2,110 | 1,260 | 1,770 | 2,390 | 1,180  | 1,470 | 1,420 |
| YEAR 1996 | TOTAL | 9,778 | MEAN  | 26.7  | MAX   | 249   | MIN   | 13    | AC-FT | 19,390 |       |       |



## REPUBLICAN RIVER BASIN

**HUGH BUTLER LAKE near McCook, 06837390 - 1996**

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

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

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

PERIOD OF RECORD.--September 1951 - present

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum contents 37,400 acre-feet June 19, elevation 2,581.57 feet;  
minimum contents 31,480 acre-feet January 1, elevation 2,577.70 feet.

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

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

DAILY CONTENTS IN ACRE-FEET FOR 1996

| Day    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1      | 31,540 | 31,780 | 32,490 | 33,350 | 33,990 | 35,960 | 36,790 | 33,840 | 32,820 | 34,710 | 34,800 | 35,390 |
| 2      | 31,520 | 31,790 | 32,510 | 33,410 | 34,030 | 36,010 | 36,610 | 33,870 | 32,770 | 34,650 | 34,800 | 35,420 |
| 3      | 31,550 | 31,810 | 32,520 | 33,420 | 34,050 | 36,040 | 36,430 | 34,170 | 32,720 | 34,580 | 34,810 | 35,440 |
| 4      | 31,550 | 31,830 | 32,570 | 33,380 | 34,060 | 36,090 | 36,230 | 34,220 | 32,670 | 34,580 | 34,860 | 35,490 |
| 5      | 31,550 | 31,830 | 32,580 | 33,410 | 34,080 | 36,120 | 36,070 | 34,230 | 32,580 | 34,660 | 34,910 | 35,490 |
| 6      | 31,550 | 31,860 | 32,610 | 33,460 | 34,100 | 36,790 | 35,880 | 34,220 | 32,630 | 34,680 | 34,890 | 35,500 |
| 7      | 31,550 | 31,880 | 32,610 | 33,480 | 34,110 | 36,880 | 35,680 | 34,130 | 32,610 | 34,680 | 34,890 | 35,540 |
| 8      | 31,550 | 31,890 | 32,610 | 33,530 | 34,170 | 36,970 | 35,470 | 34,020 | 32,600 | 34,690 | 34,890 | 35,540 |
| 9      | 31,550 | 31,920 | 32,640 | 33,530 | 34,230 | 37,060 | 35,300 | 33,920 | 32,610 | 34,720 | 34,910 | 35,570 |
| 10     | 31,550 | 31,980 | 32,670 | 33,590 | 34,200 | 37,130 | 35,130 | 33,790 | 32,680 | 34,680 | 34,910 | 35,600 |
| 11     | 31,560 | 31,950 | 32,700 | 33,640 | 34,220 | 37,180 | 34,970 | 33,710 | 32,720 | 34,710 | 34,910 | 35,630 |
| 12     | 31,560 | 32,010 | 32,730 | 33,560 | 34,230 | 37,240 | 34,890 | 33,620 | 32,740 | 34,740 | 34,910 | 35,650 |
| 13     | 31,560 | 32,070 | 32,790 | 33,550 | 34,260 | 37,260 | 34,830 | 33,550 | 32,760 | 34,750 | 34,910 | 35,660 |
| 14     | 31,560 | 32,110 | 32,770 | 33,610 | 34,340 | 37,270 | 34,720 | 33,460 | 32,760 | 34,800 | 34,920 | 35,690 |
| 15     | 31,580 | 32,120 | 32,800 | 33,640 | 34,370 | 37,320 | 34,650 | 33,420 | 32,770 | 34,780 | 34,980 | 35,690 |
| 16     | 31,580 | 32,140 | 32,850 | 33,670 | 34,450 | 37,320 | 34,620 | 33,440 | 32,790 | 34,800 | 35,060 | 35,730 |
| 17     | 31,590 | 32,200 | 32,910 | 33,760 | 34,450 | 37,350 | 34,600 | 33,380 | 32,800 | 34,720 | 35,060 | 35,730 |
| 18     | 31,590 | 32,240 | 32,940 | 33,760 | 34,480 | 37,370 | 34,570 | 33,290 | 33,470 | 34,680 | 35,080 | 35,710 |
| 19     | 31,610 | 32,320 | 32,950 | 33,770 | 34,450 | 37,340 | 34,540 | 33,250 | 34,000 | 34,680 | 35,130 | 35,710 |
| 20     | 31,620 | 32,330 | 33,010 | 33,760 | 34,400 | 37,320 | 34,450 | 33,160 | 34,280 | 34,740 | 35,190 | 35,730 |
| 21     | 31,650 | 32,360 | 33,040 | 33,770 | 34,390 | 37,340 | 34,390 | 33,100 | 34,370 | 34,680 | 35,190 | 35,770 |
| 22     | 31,660 | 32,380 | 33,050 | 33,760 | 34,450 | 37,320 | 34,260 | 33,130 | 34,450 | 34,740 | 35,200 | 35,770 |
| 23     | 31,690 | 32,390 | 33,110 | 33,800 | 34,400 | 37,320 | 34,110 | 33,110 | 34,490 | 34,740 | 35,250 | 35,800 |
| 24     | 31,710 | 32,390 | 33,110 | 33,840 | 34,420 | 37,270 | 34,000 | 33,110 | 34,480 | 34,750 | 35,220 | 35,800 |
| 25     | 31,720 | 32,400 | 33,130 | 33,850 | 34,480 | 37,230 | 33,930 | 33,110 | 34,600 | 34,780 | 35,220 | 35,800 |
| 26     | 31,730 | 32,400 | 33,130 | 33,800 | 34,800 | 37,180 | 33,900 | 33,110 | 34,580 | 34,810 | 35,280 | 35,800 |
| 27     | 31,750 | 32,460 | 33,160 | 33,800 | 34,910 | 37,130 | 33,880 | 33,050 | 34,570 | 34,770 | 35,300 | 35,840 |
| 28     | 31,760 | 32,460 | 33,190 | 33,900 | 34,980 | 37,080 | 33,850 | 33,000 | 34,580 | 34,750 | 35,350 | 35,870 |
| 29     | 31,750 | 32,460 | 33,230 | 33,880 | 35,140 | 36,980 | 33,840 | 32,940 | 34,650 | 34,810 | 35,380 | 35,870 |
| 30     | 31,750 | -----  | 33,280 | 33,940 | 35,300 | 36,880 | 33,770 | 32,910 | 34,660 | 34,780 | 35,390 | 35,880 |
| 31     | 31,760 | -----  | 33,320 | -----  | 35,760 | -----  | 33,820 | 32,860 | -----  | 34,800 | -----  | 35,910 |
| MAX    | 31,760 | 32,460 | 33,320 | 33,940 | 35,760 | 37,370 | 36,790 | 34,230 | 34,660 | 34,810 | 35,390 | 35,910 |
| MIN    | 31,520 | 31,780 | 32,490 | 33,350 | 33,990 | 35,960 | 33,770 | 32,860 | 32,580 | 34,580 | 34,800 | 35,390 |
| CHANGE | 280    | 700    | 860    | 620    | 1,820  | 1,120  | -3,060 | -960   | 1,800  | 140    | 590    | 520    |

YEAR 1996                                      MEAN    34,081                      MAX    37,370                      MIN    31,520

# REPUBLICAN RIVER BASIN

**RED WILLOW CREEK near McCook, 06837500 - 1996**

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

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

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

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

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1993.  
E indicates estimated daily discharge. Estimated daily discharges June 1-3 and September 12-30.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB     | MAR  | APR   | MAY | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC |
|-----------|-------|---------|------|-------|-----|-------|-------|-------|-------|-------|-------|-----|
| 1         |       |         |      |       |     | 4.8E  | 51    | 35    | 33    |       |       |     |
| 2         |       |         |      |       |     | 4.8E  | 75    | 29    | 38    |       |       |     |
| 3         |       |         |      |       |     | 4.8E  | 95    | 31    | 47    |       |       |     |
| 4         |       |         |      |       |     | 4.9   | 92    | 35    | 51    |       |       |     |
| 5         |       |         |      |       |     | 4.6   | 91    | 53    | 48    |       |       |     |
| 6         |       |         |      |       |     | 15    | 90    | 55    | 28    |       |       |     |
| 7         |       |         |      |       |     | 4.6   | 93    | 62    | 6.1   |       |       |     |
| 8         |       |         |      |       |     | 4.1   | 89    | 58    | 5.3   |       |       |     |
| 9         |       |         |      |       |     | 3.8   | 79    | 49    | 5.3   |       |       |     |
| 10        |       |         |      |       |     | 3.7   | 75    | 42    | 5.1   |       |       |     |
| 11        |       |         |      |       |     | 3.6   | 70    | 45    | 5.0   |       |       |     |
| 12        |       |         |      |       |     | 3.4   | 62    | 50    | 5.0E  |       |       |     |
| 13        |       |         |      |       |     | 4.2   | 56    | 47    | 5.0E  |       |       |     |
| 14        |       |         |      |       |     | 3.8   | 57    | 47    | 5.0E  |       |       |     |
| 15        |       |         |      |       |     | 3.6   | 54    | 46    | 5.0E  |       |       |     |
| 16        |       |         |      |       |     | 4.0   | 48    | 38    | 5.0E  |       |       |     |
| 17        |       |         |      |       |     | 3.8   | 40    | 30    | 4.9E  |       |       |     |
| 18        |       |         |      |       |     | 4.0   | 38    | 31    | 4.9E  |       |       |     |
| 19        |       |         |      |       |     | 17    | 42    | 43    | 4.9E  |       |       |     |
| 20        |       |         |      |       |     | 34    | 40    | 54    | 4.9E  |       |       |     |
| 21        |       |         |      |       |     | 4.3   | 41    | 56    | 4.9E  |       |       |     |
| 22        |       |         |      |       |     | 4.1   | 61    | 44    | 4.8E  |       |       |     |
| 23        |       |         |      |       |     | 4.2   | 72    | 31    | 4.8E  |       |       |     |
| 24        |       |         |      |       |     | 17    | 63    | 30    | 4.8E  |       |       |     |
| 25        |       |         |      |       |     | 30    | 48    | 31    | 4.8E  |       |       |     |
| 26        |       |         |      |       |     | 30    | 37    | 31    | 4.8E  |       |       |     |
| 27        |       |         |      |       |     | 30    | 32    | 31    | 4.7E  |       |       |     |
| 28        |       |         |      |       |     | 31    | 30    | 33    | 4.7E  |       |       |     |
| 29        |       |         |      |       |     | 32    | 30    | 33    | 4.7E  |       |       |     |
| 30        |       | -----   |      |       |     | 35    | 33    | 33    | 4.7E  |       |       |     |
| 31        |       | -----   |      | ----- |     | ----- | 39    | 33    | ----- |       | ----- |     |
| TOTAL     |       |         |      |       |     | 354.1 | 1,823 | 1,266 | 364.1 |       |       |     |
| MEAN      |       |         |      |       |     | 11.8  | 58.8  | 40.8  | 12.1  |       |       |     |
| MAX       |       |         |      |       |     | 35    | 95    | 62    | 51    |       |       |     |
| MIN       |       |         |      |       |     | 3.4   | 30    | 29    | 4.7   |       |       |     |
| AC-FT     |       |         |      |       |     | 702   | 3,620 | 2,510 | 722   |       |       |     |
| YEAR 1996 | TOTAL | 3,807.2 | MEAN | 31.2  | MAX | 95    | MIN   | 3.4   | AC-FT | 7,550 |       |     |

# REPUBLICAN RIVER BASIN

RED WILLOW CANAL from Red Willow Creek, 00126000 - 1996

LOCATION.--SW1/4SE1/4 Sec 25-4-29 W. near Red Willow

GAGE.--Continuous stage recorder and orifice

PERIOD OF RECORD.--1963 - present

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       |       | 0     | 31    | 23    | 13    |     |       |     |
| 2         |     |       |     |       |       | 0     | 51    | 17    | 26    |     |       |     |
| 3         |     |       |     |       |       | 0     | 67    | 15    | 34    |     |       |     |
| 4         |     |       |     |       |       | 0     | 73    | 15    | 40    |     |       |     |
| 5         |     |       |     |       |       | 0     | 78    | 32    | 37    |     |       |     |
| 6         |     |       |     |       |       | 0     | 79    | 42    | 12    |     |       |     |
| 7         |     |       |     |       |       | 0     | 79    | 46    | 0     |     |       |     |
| 8         |     |       |     |       |       | 0     | 74    | 44    | 0     |     |       |     |
| 9         |     |       |     |       |       | 0     | 70    | 36    | 0     |     |       |     |
| 10        |     |       |     |       |       | 0     | 68    | 33    | 0     |     |       |     |
| 11        |     |       |     |       |       | 0     | 65    | 33    | 0     |     |       |     |
| 12        |     |       |     |       |       | 0     | 53    | 35    | 0     |     |       |     |
| 13        |     |       |     |       |       | 0     | 42    | 38    | 0     |     |       |     |
| 14        |     |       |     |       |       | 0     | 42    | 43    | 0     |     |       |     |
| 15        |     |       |     |       |       | 0     | 58    | 39    | 0     |     |       |     |
| 16        |     |       |     |       |       | 0     | 32    | 29    | 0     |     |       |     |
| 17        |     |       |     |       |       | 0     | 28    | 26    | 0     |     |       |     |
| 18        |     |       |     |       |       | 0     | 25    | 26    | 0     |     |       |     |
| 19        |     |       |     |       |       | 0     | 30    | 37    | 0     |     |       |     |
| 20        |     |       |     |       |       | 11    | 30    | 49    | 0     |     |       |     |
| 21        |     |       |     |       |       | 15    | 27    | 51    | 0     |     |       |     |
| 22        |     |       |     |       |       | 15    | 38    | 32    | 0     |     |       |     |
| 23        |     |       |     |       |       | 11    | 49    | 16    | 0     |     |       |     |
| 24        |     |       |     |       |       | 12    | 43    | 13    | 0     |     |       |     |
| 25        |     |       |     |       |       | 22    | 31    | 13    | 0     |     |       |     |
| 26        |     |       |     |       |       | 28    | 19    | 13    | 0     |     |       |     |
| 27        |     |       |     |       |       | 30    | 15    | 13    | 0     |     |       |     |
| 28        |     |       |     |       |       | 30    | 15    | 13    | 0     |     |       |     |
| 29        |     |       |     |       |       | 30    | 17    | 13    | 0     |     |       |     |
| 30        |     | ----- |     |       |       | 30    | 27    | 13    | 0     |     |       |     |
| 31        |     | ----- |     | ----- |       | ----- | 33    | 13    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       |       | 234   | 1,369 | 861   | 162   |     |       |     |
| MEAN      |     |       |     |       |       | 7.80  | 44.2  | 27.8  | 5.40  |     |       |     |
| MAX       |     |       |     |       |       | 30    | 79    | 51    | 40    |     |       |     |
| MIN       |     |       |     |       |       | 0     | 15    | 13    | 0     |     |       |     |
| AC-FT     |     |       |     |       |       | 464   | 2,720 | 1,710 | 321   |     |       |     |
| YEAR 1996 | MAX | 79    | MIN | 0     | AC-FT | 5,210 |       |       |       |     |       |     |

# REPUBLICAN RIVER BASIN

**BARTLEY CANAL from Republican River, 00006000 - 1996**

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

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

PERIOD OF RECORD.--1955 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       |       | 0     | 34    | 28    | 13    |     |       |     |
| 2         |     |       |     |       |       | 0     | 66    | 26    | 30    |     |       |     |
| 3         |     |       |     |       |       | 0     | 88    | 26    | 31    |     |       |     |
| 4         |     |       |     |       |       | 0     | 88    | 26    | 27    |     |       |     |
| 5         |     |       |     |       |       | 0     | 87    | 39    | 19    |     |       |     |
| 6         |     |       |     |       |       | 0     | 87    | 52    | 5.6   |     |       |     |
| 7         |     |       |     |       |       | 0     | 87    | 61    | 0     |     |       |     |
| 8         |     |       |     |       |       | 0     | 76    | 56    | 0     |     |       |     |
| 9         |     |       |     |       |       | 0     | 64    | 38    | 0     |     |       |     |
| 10        |     |       |     |       |       | 0     | 64    | 31    | 0     |     |       |     |
| 11        |     |       |     |       |       | 0     | 64    | 31    | 0     |     |       |     |
| 12        |     |       |     |       |       | 0     | 47    | 26    | 0     |     |       |     |
| 13        |     |       |     |       |       | 0     | 37    | 32    | 0     |     |       |     |
| 14        |     |       |     |       |       | 0     | 37    | 52    | 0     |     |       |     |
| 15        |     |       |     |       |       | 0     | 45    | 57    | 0     |     |       |     |
| 16        |     |       |     |       |       | 0     | 36    | 48    | 0     |     |       |     |
| 17        |     |       |     |       |       | 0     | 22    | 43    | 0     |     |       |     |
| 18        |     |       |     |       |       | 16    | 21    | 42    | 0     |     |       |     |
| 19        |     |       |     |       |       | 35    | 51    | 63    | 0     |     |       |     |
| 20        |     |       |     |       |       | 33    | 67    | 78    | 0     |     |       |     |
| 21        |     |       |     |       |       | 26    | 63    | 80    | 0     |     |       |     |
| 22        |     |       |     |       |       | 26    | 76    | 39    | 0     |     |       |     |
| 23        |     |       |     |       |       | 26    | 81    | 13    | 0     |     |       |     |
| 24        |     |       |     |       |       | 27    | 54    | 11    | 0     |     |       |     |
| 25        |     |       |     |       |       | 26    | 38    | 11    | 0     |     |       |     |
| 26        |     |       |     |       |       | 26    | 23    | 10    | 0     |     |       |     |
| 27        |     |       |     |       |       | 25    | 14    | 13    | 0     |     |       |     |
| 28        |     |       |     |       |       | 25    | 14    | 13    | 0     |     |       |     |
| 29        |     |       |     |       |       | 25    | 14    | 13    | 0     |     |       |     |
| 30        |     | ----- |     |       |       | 25    | 26    | 13    | 0     |     |       |     |
| 31        |     | ----- |     | ----- |       | ----- | 31    | 13    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       |       | 343   | 1,602 | 1,084 | 125.6 |     |       |     |
| MEAN      |     |       |     |       |       | 11.4  | 51.7  | 35.0  | 4.19  |     |       |     |
| MAX       |     |       |     |       |       | 35    | 88    | 80    | 31    |     |       |     |
| MIN       |     |       |     |       |       | 0     | 14    | 10    | 0     |     |       |     |
| AC-FT     |     |       |     |       |       | 680   | 3,180 | 2,150 | 249   |     |       |     |
| YEAR 1996 | MAX | 88    | MIN | 0     | AC-FT | 6,260 |       |       |       |     |       |     |

# REPUBLICAN RIVER BASIN

## MEDICINE CREEK above Harry Strunk Lake, 06841000 - 1996

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

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

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

PERIOD OF RECORD.--1950 - present

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

E indicates estimated daily discharge. Estimated records January 1-13, 17-February 18, 29-March 3, 7-10, December 18-31. Records good, except estimated records 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 725 cubic feet per second July 26, gage height 12.02 feet; minimum daily discharge 31 cubic feet per second July 6.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 48E   | 41E    | 47E   | 59    | 62    | 149   | 39    | 49    | 44    | 51     | 51    | 53    |
| 2         | 46E   | 40E    | 49E   | 58    | 59    | 97    | 36    | 45    | 44    | 50     | 51    | 53    |
| 3         | 45E   | 40E    | 52E   | 57    | 58    | 73    | 35    | 45    | 44    | 49     | 51    | 53    |
| 4         | 43E   | 40E    | 53    | 55    | 56    | 67    | 35    | 47    | 43    | 49     | 52    | 53    |
| 5         | 42E   | 40E    | 53    | 54    | 55    | 60    | 33    | 47    | 42    | 49     | 52    | 54    |
| 6         | 40E   | 42E    | 53    | 54    | 54    | 63    | 31    | 44    | 41    | 50     | 52    | 52    |
| 7         | 40E   | 44E    | 52E   | 54    | 53    | 130   | 35    | 43    | 43    | 49     | 52    | 51    |
| 8         | 40E   | 46E    | 52E   | 54    | 54    | 78    | 150   | 40    | 53    | 50     | 52    | 53    |
| 9         | 44E   | 50E    | 50E   | 54    | 56    | 66    | 61    | 37    | 59    | 50     | 52    | 53    |
| 10        | 49E   | 53E    | 52E   | 55    | 55    | 59    | 48    | 45    | 54    | 50     | 52    | 54    |
| 11        | 52E   | 52E    | 53    | 56    | 55    | 52    | 45    | 45    | 46    | 50     | 52    | 54    |
| 12        | 52E   | 50E    | 55    | 54    | 55    | 49    | 44    | 38    | 43    | 50     | 52    | 55    |
| 13        | 54E   | 50E    | 56    | 53    | 54    | 47    | 42    | 37    | 41    | 50     | 52    | 55    |
| 14        | 55    | 50E    | 58    | 53    | 54    | 67    | 42    | 36    | 40    | 50     | 52    | 55    |
| 15        | 54    | 49E    | 58    | 54    | 55    | 125   | 40    | 36    | 41    | 50     | 54    | 55    |
| 16        | 54    | 48E    | 59    | 59    | 56    | 84    | 44    | 59    | 49    | 50     | 55    | 55    |
| 17        | 48E   | 49E    | 58    | 60    | 54    | 67    | 46    | 69    | 57    | 49     | 58    | 54    |
| 18        | 44E   | 50E    | 57    | 59    | 51    | 64    | 44    | 57    | 151   | 50     | 54    | 50E   |
| 19        | 40E   | 54     | 57    | 57    | 48    | 59    | 42    | 52    | 205   | 52     | 54    | 49E   |
| 20        | 42E   | 55     | 58    | 54    | 47    | 54    | 78    | 51    | 211   | 53     | 55    | 48E   |
| 21        | 43E   | 57     | 57    | 53    | 46    | 58    | 87    | 46    | 154   | 51     | 55    | 50E   |
| 22        | 45E   | 55     | 55    | 52    | 46    | 52    | 85    | 55    | 118   | 51     | 55    | 52E   |
| 23        | 45E   | 53     | 55    | 52    | 47    | 51    | 79    | 117   | 88    | 51     | 53    | 50E   |
| 24        | 44E   | 51     | 56    | 53    | 50    | 49    | 64    | 86    | 67    | 51     | 53    | 48E   |
| 25        | 43E   | 53     | 53    | 52    | 50    | 46    | 76    | 66    | 65    | 52     | 54    | 47E   |
| 26        | 43E   | 53     | 50    | 50    | 62    | 45    | 323   | 52    | 65    | 51     | 52    | 45E   |
| 27        | 42E   | 52     | 58    | 50    | 92    | 42    | 146   | 47    | 64    | 51     | 51    | 43E   |
| 28        | 43E   | 49     | 57    | 53    | 123   | 41    | 121   | 44    | 59    | 51     | 50    | 45E   |
| 29        | 43E   | 48E    | 57    | 57    | 115   | 40    | 106   | 43    | 54    | 51     | 50    | 46E   |
| 30        | 44E   | -----  | 57    | 64    | 96    | 41    | 91    | 43    | 53    | 50     | 51    | 48E   |
| 31        | 43E   | -----  | 58    | ----- | 101   | ----- | 71    | 44    | ----- | 51     | ----- | 50E   |
| TOTAL     | 1,410 | 1,414  | 1,695 | 1,649 | 1,919 | 1,975 | 2,219 | 1,585 | 2,140 | 1,562  | 1,579 | 1,583 |
| MEAN      | 45.5  | 48.8   | 54.7  | 55.0  | 61.9  | 65.8  | 71.6  | 51.1  | 71.3  | 50.4   | 52.6  | 51.1  |
| MAX       | 55    | 57     | 59    | 64    | 123   | 149   | 323   | 117   | 211   | 53     | 58    | 55    |
| MIN       | 40    | 40     | 47    | 50    | 46    | 40    | 31    | 36    | 40    | 49     | 50    | 43    |
| AC-FT     | 2,800 | 2,800  | 3,360 | 3,270 | 3,810 | 3,920 | 4,400 | 3,140 | 4,240 | 3,100  | 3,130 | 3,140 |
| YEAR 1996 | TOTAL | 20,730 | MEAN  | 56.6  | MAX   | 323   | MIN   | 31    | AC-FT | 41,120 |       |       |

# REPUBLICAN RIVER BASIN

**HARRY STRUNK LAKE near Cambridge, 06842000 - 1996**

**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 40,040 acre-feet June 23, elevation 2,368.35 feet;  
minimum contents 21,690 acre-feet January 1, elevation 2,356.74 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 FOR 1996

| Day       | JAN     | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    |
|-----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1         | 21,770  | 24,310 | 26,990 | 30,040 | 32,710 | 36,580 | 39,680 | 39,000 | 37,990 | 35,800 | 35,100 | 35,320 |
| 2         | 21,860  | 24,350 | 27,090 | 30,240 | 32,880 | 36,730 | 39,380 | 38,930 | 37,990 | 35,410 | 35,100 | 35,320 |
| 3         | 21,970  | 24,420 | 27,210 | 30,240 | 32,910 | 36,810 | 38,900 | 38,980 | 38,030 | 35,180 | 35,120 | 35,280 |
| 4         | 22,040  | 24,500 | 27,290 | 30,290 | 32,960 | 36,900 | 38,530 | 39,000 | 38,010 | 35,050 | 35,180 | 35,280 |
| 5         | 22,100  | 24,550 | 27,390 | 30,370 | 33,100 | 37,030 | 38,140 | 38,960 | 38,050 | 35,030 | 35,210 | 35,270 |
| 6         | 22,130  | 24,640 | 27,440 | 30,530 | 33,100 | 37,130 | 37,740 | 38,960 | 38,010 | 34,960 | 35,100 | 35,270 |
| 7         | 22,190  | 24,710 | 27,480 | 30,610 | 33,200 | 37,200 | 37,680 | 38,960 | 37,780 | 34,830 | 35,100 | 35,270 |
| 8         | 22,280  | 24,800 | 27,520 | 30,720 | 33,380 | 37,360 | 37,930 | 38,870 | 37,640 | 34,830 | 35,070 | 35,230 |
| 9         | 22,350  | 24,920 | 27,540 | 30,770 | 33,590 | 37,490 | 37,930 | 38,790 | 37,550 | 34,830 | 35,080 | 35,250 |
| 10        | 22,430  | 25,020 | 27,730 | 30,950 | 33,590 | 37,600 | 37,890 | 38,810 | 37,470 | 34,810 | 35,050 | 35,230 |
| 11        | 22,530  | 25,120 | 27,850 | 31,050 | 33,690 | 37,700 | 37,820 | 38,750 | 37,280 | 34,890 | 34,990 | 35,250 |
| 12        | 22,650  | 25,230 | 27,920 | 31,020 | 33,740 | 37,760 | 37,890 | 38,690 | 37,110 | 34,980 | 34,980 | 35,250 |
| 13        | 22,770  | 25,370 | 28,110 | 31,080 | 33,900 | 37,870 | 37,970 | 38,650 | 36,920 | 35,010 | 34,980 | 35,230 |
| 14        | 22,850  | 25,500 | 28,140 | 31,150 | 34,080 | 38,070 | 37,990 | 38,470 | 36,670 | 35,070 | 34,980 | 35,230 |
| 15        | 22,940  | 25,600 | 28,230 | 31,310 | 34,210 | 39,300 | 38,140 | 38,300 | 36,540 | 35,030 | 35,070 | 35,160 |
| 16        | 23,070  | 25,710 | 28,370 | 31,430 | 34,350 | 39,560 | 38,200 | 38,240 | 36,410 | 35,080 | 35,160 | 35,190 |
| 17        | 23,160  | 25,820 | 28,460 | 31,630 | 34,400 | 39,700 | 38,340 | 38,180 | 36,260 | 34,940 | 35,140 | 35,160 |
| 18        | 23,250E | 25,940 | 28,580 | 31,690 | 34,470 | 39,780 | 38,320 | 38,120 | 36,560 | 34,960 | 35,180 | 35,190 |
| 19        | 23,330  | 26,060 | 28,620 | 31,760 | 34,470 | 39,880 | 38,100 | 38,070 | 36,980 | 34,980 | 35,210 | 34,940 |
| 20        | 23,420  | 26,160 | 28,720 | 31,830 | 34,440 | 39,800 | 37,970 | 37,870 | 37,200 | 35,050 | 35,270 | 34,920 |
| 21        | 23,480  | 26,260 | 28,850 | 31,890 | 34,490 | 39,920 | 37,930 | 37,850 | 37,340 | 34,980 | 35,210 | 34,920 |
| 22        | 23,570  | 26,400 | 28,960 | 31,940 | 34,620 | 39,980 | 37,830 | 37,780 | 37,390 | 34,990 | 35,270 | 34,920 |
| 23        | 23,650  | 26,470 | 29,180 | 32,080 | 34,630 | 40,040 | 37,800 | 37,910 | 37,280 | 35,050 | 35,320 | 35,010 |
| 24        | 23,720  | 26,560 | 29,190 | 32,280 | 34,710 | 39,980 | 37,820 | 38,010 | 37,050 | 35,100 | 35,250 | 34,980 |
| 25        | 23,800  | 26,650 | 29,190 | 32,250 | 34,760 | 40,000 | 37,970 | 38,100 | 37,010 | 35,160 | 35,230 | 34,940 |
| 26        | 23,890  | 26,710 | 29,270 | 32,280 | 35,300 | 40,000 | 38,490 | 38,120 | 36,690 | 35,180 | 35,230 | 34,900 |
| 27        | 23,980  | 26,790 | 29,420 | 32,330 | 35,450 | 39,980 | 38,750 | 38,100 | 36,450 | 35,080 | 35,280 | 34,890 |
| 28        | 24,050  | 26,830 | 29,520 | 32,360 | 35,580 | 39,960 | 38,880 | 38,120 | 36,340 | 35,160 | 35,270 | 34,870 |
| 29        | 24,090  | 26,890 | 29,640 | 32,450 | 35,840 | 39,900 | 38,960 | 38,050 | 36,170 | 35,190 | 35,340 | 34,830 |
| 30        | 24,160  | -----  | 29,750 | 32,590 | 35,980 | 39,800 | 39,000 | 38,030 | 35,960 | 35,140 | 35,340 | 34,830 |
| 31        | 24,230  | -----  | 29,880 | -----  | 36,300 | -----  | 39,020 | 38,010 | -----  | 35,100 | -----  | 34,810 |
| MAX       | 24,230  | 26,890 | 29,880 | 32,590 | 36,300 | 40,040 | 39,680 | 39,000 | 38,050 | 35,800 | 35,340 | 35,320 |
| MIN       | 21,770  | 24,310 | 26,990 | 30,040 | 32,710 | 36,580 | 37,680 | 37,780 | 35,960 | 34,810 | 34,980 | 34,810 |
| CHANGE    | 2,540   | 2,660  | 2,990  | 2,710  | 3,710  | 3,500  | -780   | -1,010 | -2,050 | -860   | 240    | -530   |
| YEAR 1996 |         |        | MEAN   | 33,385 | MAX    | 40,040 | MIN    | 21,770 |        |        |        |        |

# REPUBLICAN RIVER BASIN

## MEDICINE CREEK below Harry Strunk Lake, 06842500 - 1996

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

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

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

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

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

E indicates estimated daily discharge. Estimated daily discharge October 4-15, December 18 & 19. Records above 5 cubic feet per second good, estimated records fair, records below 5 cubic feet per second poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 217 cubic feet per second July 2, gage height 2.45 feet; minimum daily discharge 0.27 cubic feet per second January 1-2, June 11.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB       | MAR   | APR   | MAY   | JUN    | JUL     | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|-----------|-------|-------|-------|--------|---------|-------|-------|--------|-------|-------|
| 1         | .27   | .41       | .35   | .50   | .45   | .43    | 96      | 48    | 34    | 150    | 49    | 51    |
| 2         | .27   | .47       | .35   | .56   | .49   | .44    | 157     | 48    | 33    | 148    | 49    | 53    |
| 3         | .30   | .43       | .35   | .56   | .47   | .33    | 214     | 48    | 33    | 147    | 49    | 58    |
| 4         | .30   | .41       | .38   | .59   | .50   | .33    | 193     | 48    | 33    | 125E   | 49    | 58    |
| 5         | .30   | .41       | .47   | .60   | .56   | .30    | 190     | 49    | 33    | 100E   | 49    | 58    |
| 6         | .30   | .41       | .47   | .63   | .53   | .35    | 192     | 47    | 74    | 96E    | 51    | 60    |
| 7         | .30   | .43       | .47   | .70   | .57   | .29    | 195     | 48    | 106   | 96E    | 51    | 61    |
| 8         | .32   | .40       | .47   | .77   | .57   | .30    | 125     | 47    | 106   | 56E    | 51    | 61    |
| 9         | .32   | .38       | .47   | .75   | .60   | .29    | 65      | 46    | 106   | 38E    | 51    | 59    |
| 10        | .36   | .35       | .47   | .70   | .50   | .29    | 44      | 45    | 106   | 38E    | 51    | 59    |
| 11        | .41   | .35       | .44   | .67   | .47   | .27    | 37      | 45    | 106   | 38E    | 51    | 59    |
| 12        | .37   | .36       | .47   | .60   | .47   | .29    | 37      | 51    | 104   | 36E    | 52    | 59    |
| 13        | .42   | .35       | .53   | .62   | .38   | .31    | 37      | 71    | 105   | 36E    | 53    | 59    |
| 14        | .41   | .34       | .70   | .77   | .38   | .39    | 37      | 96    | 106   | 36E    | 51    | 60    |
| 15        | .41   | .35       | .60   | .64   | .35   | 1.3    | 36      | 116   | 106   | 37E    | 51    | 61    |
| 16        | .41   | .35       | .60   | .54   | .35   | 5.6    | 17      | 99    | 106   | 37     | 51    | 61    |
| 17        | .42   | .35       | .70   | .46   | .34   | 11     | 1.2     | 89    | 105   | 38     | 51    | 61    |
| 18        | .44   | .35       | .70   | .45   | .33   | 7.2    | 46      | 90    | 106   | 38     | 51    | 60E   |
| 19        | .42   | .35       | .70   | .49   | .29   | 7.2    | 126     | 96    | 106   | 37     | 51    | 62E   |
| 20        | .41   | .35       | .70   | .49   | .29   | 9.4    | 100     | 109   | 105   | 36     | 51    | 61    |
| 21        | .41   | .30       | .80   | .51   | .30   | 11     | 74      | 107   | 107   | 36     | 51    | 61    |
| 22        | .43   | .33       | .94   | .46   | .35   | 15     | 92      | 66    | 109   | 36     | 51    | 61    |
| 23        | .46   | .36       | 1.1   | .47   | .39   | 39     | 81      | 35    | 133   | 36     | 51    | 61    |
| 24        | .44   | .41       | .96   | .52   | .35   | 38     | 52      | 35    | 148   | 36     | 51    | 61    |
| 25        | .40   | .45       | .48   | .50   | .36   | 37     | 36      | 34    | 148   | 35     | 50    | 61    |
| 26        | .40   | .47       | .48   | .48   | .72   | 36     | 37      | 34    | 148   | 35     | 51    | 61    |
| 27        | .41   | .43       | .51   | .44   | .55   | 36     | 43      | 34    | 147   | 35     | 51    | 61    |
| 28        | .41   | .41       | .56   | .50   | .41   | 35     | 44      | 35    | 146   | 34     | 51    | 60    |
| 29        | .41   | .37       | .59   | .45   | .41   | 37     | 46      | 34    | 148   | 34     | 51    | 59    |
| 30        | .41   | -----     | .68   | .45   | .43   | 51     | 47      | 34    | 149   | 43     | 51    | 59    |
| 31        | .41   | -----     | .51   | ----- | .50   | -----  | 49      | 34    | ----- | 49     | ----- | 59    |
| TOTAL     | 11.75 | 11.13     | 18.00 | 16.87 | 13.66 | 381.31 | 2,546.2 | 1,818 | 3,102 | 1,772  | 1,522 | 1,845 |
| MEAN      | .38   | .38       | .58   | .56   | .44   | 12.7   | 82.1    | 58.6  | 103   | 57.2   | 50.7  | 59.5  |
| MAX       | .46   | .47       | 1.1   | .77   | .72   | 51     | 214     | 116   | 149   | 150    | 53    | 62    |
| MIN       | .27   | .30       | .35   | .44   | .29   | .27    | 1.2     | 34    | 33    | 34     | 49    | 51    |
| AC-FT     | 23    | 22        | 36    | 33    | 27    | 756    | 5,050   | 3,610 | 6,150 | 3,510  | 3,020 | 3,660 |
| YEAR 1996 | TOTAL | 13,057.92 | MEAN  | 35.7  | MAX   | 214    | MIN     | .27   | AC-FT | 25,900 |       |       |

# REPUBLICAN RIVER BASIN

**CAMBRIDGE CANAL from Republican River, 00020000 - 1996**

LOCATION.--SE1/4NE1/4 Sec. 26-4-25 W. near Cambridge

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

PERIOD OF RECORD.--1951 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       |       | 0      | 109   | 49    | 66    |     |       |     |
| 2         |     |       |     |       |       | 0      | 176   | 49    | 70    |     |       |     |
| 3         |     |       |     |       |       | 0      | 246   | 47    | 69    |     |       |     |
| 4         |     |       |     |       |       | 0      | 245   | 46    | 69    |     |       |     |
| 5         |     |       |     |       |       | 0      | 234   | 62    | 65    |     |       |     |
| 6         |     |       |     |       |       | 0      | 232   | 86    | 22    |     |       |     |
| 7         |     |       |     |       |       | 0      | 230   | 78    | 0     |     |       |     |
| 8         |     |       |     |       |       | 0      | 147   | 67    | 0     |     |       |     |
| 9         |     |       |     |       |       | 0      | 95    | 63    | 0     |     |       |     |
| 10        |     |       |     |       |       | 0      | 91    | 62    | 0     |     |       |     |
| 11        |     |       |     |       |       | 0      | 93    | 62    | 0     |     |       |     |
| 12        |     |       |     |       |       | 0      | 87    | 75    | 0     |     |       |     |
| 13        |     |       |     |       |       | 0      | 92    | 106   | 0     |     |       |     |
| 14        |     |       |     |       |       | 0      | 83    | 121   | 0     |     |       |     |
| 15        |     |       |     |       |       | 0      | 83    | 128   | 0     |     |       |     |
| 16        |     |       |     |       |       | 0      | 74    | 107   | 0     |     |       |     |
| 17        |     |       |     |       |       | 0      | 66    | 99    | 0     |     |       |     |
| 18        |     |       |     |       |       | 0      | 92    | 100   | 0     |     |       |     |
| 19        |     |       |     |       |       | 41     | 153   | 119   | 0     |     |       |     |
| 20        |     |       |     |       |       | 95     | 135   | 126   | 0     |     |       |     |
| 21        |     |       |     |       |       | 105    | 118   | 118   | 0     |     |       |     |
| 22        |     |       |     |       |       | 104    | 129   | 74    | 0     |     |       |     |
| 23        |     |       |     |       |       | 108    | 121   | 47    | 0     |     |       |     |
| 24        |     |       |     |       |       | 94     | 92    | 45    | 0     |     |       |     |
| 25        |     |       |     |       |       | 79     | 72    | 45    | 0     |     |       |     |
| 26        |     |       |     |       |       | 77     | 61    | 45    | 0     |     |       |     |
| 27        |     |       |     |       |       | 76     | 58    | 53    | 0     |     |       |     |
| 28        |     |       |     |       |       | 77     | 58    | 64    | 0     |     |       |     |
| 29        |     |       |     |       |       | 78     | 52    | 73    | 0     |     |       |     |
| 30        |     | ----- |     |       |       | 78     | 50    | 68    | 0     |     |       |     |
| 31        |     | ----- |     | ----- |       | -----  | 49    | 65    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       |       | 1,012  | 3,613 | 2,349 | 361   |     |       |     |
| MEAN      |     |       |     |       |       | 33.7   | 117   | 75.8  | 12.0  |     |       |     |
| MAX       |     |       |     |       |       | 108    | 246   | 128   | 70    |     |       |     |
| MIN       |     |       |     |       |       | 0      | 49    | 45    | 0     |     |       |     |
| AC-FT     |     |       |     |       |       | 2,010  | 7,170 | 4,660 | 716   |     |       |     |
| YEAR 1996 | MAX | 246   | MIN | 0     | AC-FT | 14,550 |       |       |       |     |       |     |



## REPUBLICAN RIVER BASIN

## TURKEY CREEK at Edison, 06844210 - 1996

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

DRAINAGE AREA.--74.9 square miles.

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

PERIOD OF RECORD.--1977 - present

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

E indicates estimated daily discharge. Estimated daily discharges January 1-11, 17-February 4, 6-18, 26-March 3, 26-29, November 26-30, December 15-31. Records good, except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,510 cubic feet per second June 16, gage height 16.62 feet; minimum daily discharge 6.0 cubic feet per second estimated January 5-7, 19, February 1.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day        | JAN   | FEB     | MAR  | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC  |
|------------|-------|---------|------|-------|-------|-------|-------|-------|-------|--------|-------|------|
| 1          | 8.0E  | 6.0E    | 14E  | 14    | 12    | 54    | 18    | 15    | 15    | 14     | 18    | 18   |
| 2          | 7.5E  | 7.0E    | 15E  | 14    | 12    | 23    | 18    | 15    | 14    | 14     | 18    | 17   |
| 3          | 7.0E  | 8.0E    | 15E  | 14    | 12    | 19    | 19    | 73    | 13    | 14     | 18    | 17   |
| 4          | 6.5E  | 9.0E    | 16   | 14    | 12    | 17    | 27    | 40    | 13    | 15     | 17    | 17   |
| 5          | 6.0E  | 10      | 14   | 14    | 11    | 16    | 23    | 20    | 13    | 15     | 18    | 17   |
| 6          | 6.0E  | 12 E    | 12   | 13    | 11    | 16    | 21    | 17    | 13    | 15     | 17    | 16   |
| 7          | 6.0E  | 14 E    | 17   | 13    | 12    | 15    | 21    | 19    | 13    | 15     | 17    | 17   |
| 8          | 9.0E  | 16 E    | 18   | 13    | 12    | 15    | 28    | 19    | 13    | 15     | 16    | 16   |
| 9          | 12 E  | 18 E    | 14   | 13    | 100   | 14    | 40    | 14    | 13    | 15     | 16    | 16   |
| 10         | 13 E  | 20 E    | 22   | 13    | 110   | 14    | 20    | 13    | 13    | 15     | 16    | 16   |
| 11         | 13 E  | 19 E    | 19   | 13    | 28    | 14    | 17    | 15    | 13    | 15     | 16    | 16   |
| 12         | 14    | 18 E    | 15   | 13    | 17    | 14    | 17    | 16    | 13    | 15     | 16    | 16   |
| 13         | 12    | 16 E    | 15   | 13    | 14    | 15    | 15    | 14    | 13    | 16     | 16    | 16   |
| 14         | 12    | 15 E    | 15   | 13    | 13    | 15    | 15    | 14    | 13    | 15     | 16    | 16   |
| 15         | 13    | 14 E    | 14   | 14    | 13    | 19    | 15    | 14    | 21    | 15     | 17    | 16   |
| 16         | 11    | 14 E    | 14   | 13    | 13    | 707   | 16    | 58    | 27    | 15     | 23    | 15   |
| 17         | 9.2E  | 15 E    | 14   | 13    | 12    | 168   | 16    | 54    | 17    | 15     | 23    | 14   |
| 18         | 7.6E  | 16 E    | 14   | 13    | 12    | 93    | 13    | 29    | 16    | 15     | 19    | 14   |
| 19         | 6.0E  | 17      | 14   | 13    | 12    | 53    | 13    | 16    | 23    | 15     | 19    | 13   |
| 20         | 7.0E  | 17      | 14   | 13    | 12    | 34    | 27    | 15    | 32    | 16     | 19    | 12E  |
| 21         | 9.6E  | 16      | 13   | 12    | 11    | 25    | 29    | 14    | 20    | 16     | 18    | 13E  |
| 22         | 12 E  | 16      | 13   | 12    | 12    | 25    | 16    | 31    | 16    | 15     | 17    | 14E  |
| 23         | 15 E  | 16      | 13   | 12    | 24    | 202   | 22    | 18    | 14    | 15     | 17    | 13E  |
| 24         | 14 E  | 18      | 14   | 12    | 15    | 95    | 22    | 15    | 15    | 15     | 15    | 11E  |
| 25         | 12 E  | 14      | 11   | 12    | 14    | 39    | 19    | 15    | 15    | 15     | 14    | 10E  |
| 26         | 11 E  | 14 E    | 11E  | 12    | 45    | 25    | 39    | 15    | 21    | 15     | 13E   | 11E  |
| 27         | 9.4E  | 13 E    | 12E  | 12    | 234   | 22    | 13    | 14    | 17    | 16     | 13E   | 12E  |
| 28         | 8.0E  | 13 E    | 13E  | 11    | 68    | 21    | 39    | 15    | 16    | 16     | 14E   | 13E  |
| 29         | 7.5E  | 13 E    | 14E  | 12    | 29    | 20    | 132   | 15    | 15    | 17     | 16E   | 14E  |
| 30         | 7.0E  | -----   | 15   | 12    | 19    | 19    | 52    | 14    | 15    | 17     | 17E   | 15E  |
| 31         | 6.5E  | -----   | 15   | ----- | 51    | ----- | 21    | 18    | ----- | 17     | ----- | 16E  |
| TOTAL      | 297.8 | 414.0   | 449  | 385   | 972   | 1,828 | 803   | 674   | 485   | 473    | 509   | 457  |
| MEAN       | 9.61  | 14.3    | 14.5 | 12.8  | 31.4  | 60.9  | 25.9  | 21.7  | 16.2  | 15.3   | 17.0  | 14.7 |
| MAX        | 15    | 20      | 22   | 14    | 234   | 707   | 132   | 73    | 32    | 17     | 23    | 18   |
| MIN        | 6.0   | 6.0     | 11   | 11    | 11    | 14    | 13    | 13    | 13    | 14     | 13    | 10   |
| AC-FT      | 591   | 821     | 891  | 764   | 1,930 | 3,630 | 1,590 | 1,340 | 962   | 938    | 1,010 | 906  |
| *YEAR 1996 | TOTAL | 7,746.8 | MEAN | 21.2  | MAX   | 707   | MIN   | 6.0   | AC-FT | 15,370 |       |      |

# REPUBLICAN RIVER BASIN

**BEAVER CREEK near Beaver City, 06847000 - 1996**

LOCATION.--SW1/4SW1/4 Sec. 23-2-23 W., Furnas County, Lat. 40° 07' 12", Long. 99° 53' 35", on left bank 400 feet downstream from bridge on U.S. Highway 283, 0.75 mile south of State Highway 89, and 3.5 miles west of Beaver City, and 25.5 miles above the mouth.

DRAINAGE AREA.--2,081 square miles, approximately 1,650 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,164.84 feet above sea level.

PERIOD OF RECORD.--1936 - present (Some records are monthly discharge only, published in WSP 1310).

REMARKS.--Published by U. S. Geological Survey up to October 1, 1994.  
E indicates estimated daily discharges. Estimated daily discharges January 1-9, 18-31, February 1-16, August 13-15, 24-26, November 24-26,28, December 4-6,12. Records fair, except estimated records and records below 1.0 cubic feet per second poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 9,510 cubic feet per second June 14, 1983, gage height 15.68 ft.  
No flow during many years.

EXTREMES FOR CURRENT YEAR.--Peak discharge 601 cubic feet per second August 22, gage height 10.06 feet; minimum daily discharge 0.65 cubic feet per second May 21.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB      | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC  |
|-----------|-------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|------|
| 1         | .80E  | 1.0E     | 1.1   | 1.4   | 1.3   | 3.8   | 32    | 22    | 40    | 39     | 14    | 15   |
| 2         | .80E  | 1.0E     | 1.1   | 1.4   | 1.4   | 3.0   | 24    | 16    | 37    | 33     | 13    | 16   |
| 3         | .80E  | 1.0E     | 1.1   | 1.3   | 1.4   | 2.5   | 20    | 12    | 35    | 31     | 13    | 15   |
| 4         | .80E  | 1.0E     | 1.1   | 1.8   | 1.3   | 3.0   | 16    | 10    | 33    | 30     | 14    | 12E  |
| 5         | .80E  | 1.0E     | 1.1   | 1.3   | 1.2   | 3.0   | 13    | 10    | 67    | 29     | 13    | 12E  |
| 6         | .80E  | 1.0E     | 1.0   | 1.3   | 1.2   | 14    | 12    | 10    | 52    | 29     | 14    | 14E  |
| 7         | .80E  | 1.0E     | 1.1   | 1.3   | 1.4   | 18    | 10    | 21    | 41    | 27     | 12    | 15   |
| 8         | .80E  | 1.0E     | 1.0   | 1.4   | 1.4   | 8.5   | 11    | 46    | 37    | 25     | 13    | 14   |
| 9         | .80E  | 1.0E     | 1.0   | 1.4   | 1.3   | 3.7   | 9.1   | 112   | 37    | 24     | 13    | 16   |
| 10        | 1.2   | 1.0E     | .98   | 1.4   | 1.4   | 2.7   | 7.9   | 110   | 35    | 23     | 13    | 15   |
| 11        | 1.1   | 1.0E     | 1.1   | 1.4   | 1.3   | 2.3   | 7.2   | 98    | 31    | 22     | 14    | 15   |
| 12        | 1.0   | 1.0E     | 1.1   | 1.3   | 1.2   | 2.0   | 6.9   | 106   | 76    | 21     | 13    | 15   |
| 13        | 1.0   | 1.0E     | 1.3   | 1.3   | 1.3   | 1.9   | 6.4   | 135E  | 77    | 20     | 13    | 15   |
| 14        | 1.0   | 1.0E     | 1.4   | 1.7   | 1.2   | 2.6   | 5.9   | 145E  | 60    | 20     | 13    | 15   |
| 15        | 1.0   | 1.0E     | 1.3   | 1.7   | 1.3   | 4.5   | 8.0   | 140E  | 50    | 20     | 13    | 14   |
| 16        | 1.0   | 1.0E     | 1.3   | 1.6   | 1.3   | 4.7   | 11    | 126   | 44    | 19     | 17    | 14   |
| 17        | 1.1   | 1.0      | 1.3   | 1.5   | 1.2   | 19    | 7.7   | 81    | 41    | 18     | 16    | 12E  |
| 18        | 1.0 E | 1.1      | 1.3   | 1.3   | 1.2   | 18    | 4.6   | 64    | 40    | 17     | 16    | 14   |
| 19        | 1.0 E | 1.1      | 1.3   | 1.3   | 1.0   | 9.9   | 4.8   | 72    | 46    | 17     | 16    | 16   |
| 20        | 1.0 E | 1.2      | 1.2   | 1.2   | .92   | 9.3   | 7.6   | 125   | 81    | 17     | 16    | 16   |
| 21        | 1.0 E | 1.2      | 1.2   | 1.2   | .69   | 7.4   | 7.0   | 110   | 52    | 17     | 16    | 16   |
| 22        | 1.0 E | 1.3      | 1.3   | 1.2   | .75   | 30    | 6.1   | 417   | 46    | 16     | 15    | 16   |
| 23        | 1.0 E | 1.2      | 1.2   | 1.2   | 1.1   | 46    | 14    | 206   | 40    | 16     | 15    | 15   |
| 24        | 1.0 E | 1.3      | 1.4   | 1.2   | 1.1   | 57    | 10    | 155E  | 36    | 16     | 12E   | 15   |
| 25        | 1.0 E | 1.3      | 1.2   | 1.2   | 1.2   | 43    | 18    | 86E   | 46    | 16     | 14E   | 15   |
| 26        | 1.0 E | 1.2      | 1.2   | 1.3   | 3.1   | 27    | 74    | 60E   | 47    | 16     | 14E   | 16   |
| 27        | 1.0 E | 1.1      | 1.2   | 1.3   | 16    | 21    | 41    | 52    | 52    | 15     | 14    | 16   |
| 28        | 1.0 E | 1.1      | 1.3   | 1.3   | 10    | 60    | 26    | 52    | 82    | 15     | 14E   | 16   |
| 29        | 1.0 E | 1.1      | 1.4   | 1.4   | 9.6   | 55    | 25    | 55    | 67    | 15     | 15    | 16   |
| 30        | 1.0 E | -----    | 1.8   | 1.4   | 6.9   | 44    | 29    | 49    | 49    | 13     | 15    | 16   |
| 31        | 1.0 E | -----    | 1.8   | ----- | 4.4   | ----- | 31    | 44    | ----- | 14     | ----- | 16   |
| TOTAL     | 29.60 | 31.2     | 38.18 | 41.0  | 80.06 | 526.8 | 506.2 | 2,747 | 1,477 | 650    | 423   | 463  |
| MEAN      | .95   | 1.08     | 1.23  | 1.37  | 2.58  | 17.6  | 16.3  | 88.6  | 49.2  | 21.0   | 14.1  | 14.9 |
| MAX       | 1.2   | 1.3      | 1.8   | 1.8   | 16    | 60    | 74    | 417   | 82    | 39     | 17    | 16   |
| MIN       | .80   | 1.0      | .98   | 1.2   | .69   | 1.9   | 4.6   | 10    | 31    | 13     | 12    | 12   |
| AC-FT     | 59    | 62       | 76    | 81    | 159   | 1,040 | 1,000 | 5,450 | 2,930 | 1,290  | 839   | 918  |
| YEAR 1996 | TOTAL | 7,013.04 | MEAN  | 19.2  | MAX   | 417   | MIN   | .69   | AC-FT | 13,910 |       |      |



# REPUBLICAN RIVER BASIN

NAPONEE CANAL from Republican River, 00105000 - 1996

LOCATION.--NE1/4NE1/4 Sec. 14-1-17 W. below Harlan County Dam

GAGE.--Sparling Meter

PERIOD OF RECORD.--1955 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       |       |       | 10    | 0     |       |     |       |     |
| 2         |     |       |     |       |       |       | 18    | 0     |       |     |       |     |
| 3         |     |       |     |       |       |       | 25    | 0     |       |     |       |     |
| 4         |     |       |     |       |       |       | 28    | 8.0   |       |     |       |     |
| 5         |     |       |     |       |       |       | 28    | 5.0   |       |     |       |     |
| 6         |     |       |     |       |       |       | 26    | 0     |       |     |       |     |
| 7         |     |       |     |       |       |       | 25    | 0     |       |     |       |     |
| 8         |     |       |     |       |       |       | 9.0   | 0     |       |     |       |     |
| 9         |     |       |     |       |       |       | 0     | 0     |       |     |       |     |
| 10        |     |       |     |       |       |       | 0     | 0     |       |     |       |     |
| 11        |     |       |     |       |       |       | 0     | 0     |       |     |       |     |
| 12        |     |       |     |       |       |       | 0     | 0     |       |     |       |     |
| 13        |     |       |     |       |       |       | 0     | 0     |       |     |       |     |
| 14        |     |       |     |       |       |       | 0     | 8.0   |       |     |       |     |
| 15        |     |       |     |       |       |       | 6.0   | 19    |       |     |       |     |
| 16        |     |       |     |       |       |       | 15    | 21    |       |     |       |     |
| 17        |     |       |     |       |       |       | 15    | 21    |       |     |       |     |
| 18        |     |       |     |       |       |       | 15    | 21    |       |     |       |     |
| 19        |     |       |     |       |       |       | 19    | 21    |       |     |       |     |
| 20        |     |       |     |       |       |       | 23    | 21    |       |     |       |     |
| 21        |     |       |     |       |       |       | 23    | 21    |       |     |       |     |
| 22        |     |       |     |       |       |       | 20    | 21    |       |     |       |     |
| 23        |     |       |     |       |       |       | 18    | 18    |       |     |       |     |
| 24        |     |       |     |       |       |       | 18    | 16    |       |     |       |     |
| 25        |     |       |     |       |       |       | 19    | 16    |       |     |       |     |
| 26        |     |       |     |       |       |       | 20    | 16    |       |     |       |     |
| 27        |     |       |     |       |       |       | 20    | 16    |       |     |       |     |
| 28        |     |       |     |       |       |       | 9.0   | 16    |       |     |       |     |
| 29        |     |       |     |       |       |       | 0     | 19    |       |     |       |     |
| 30        |     | ----- |     |       |       |       | 0     | 18    |       |     |       |     |
| 31        |     | ----- |     | ----- |       | ----- | 0     | 6.0   | ----- |     | ----- |     |
| TOTAL     |     |       |     |       |       |       | 409.0 | 328.0 |       |     |       |     |
| MEAN      |     |       |     |       |       |       | 13.2  | 10.6  |       |     |       |     |
| MAX       |     |       |     |       |       |       | 28    | 21    |       |     |       |     |
| MIN       |     |       |     |       |       |       | 0     | 0     |       |     |       |     |
| AC-FT     |     |       |     |       |       |       | 811   | 651   |       |     |       |     |
| YEAR 1996 | MAX | 28    | MIN | 0     | AC-FT | 1,460 |       |       |       |     |       |     |

## REPUBLICAN RIVER BASIN

## FRANKLIN CANAL from Republican River, 00053000 - 1996

LOCATION.--NW1/4NE1/4 Sec. 11-1-17 W. below Harlan County Dam

GAGE.--Continuous stage recorder and orifice

PERIOD OF RECORD.--1954 - present

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL    | AUG    | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|--------|--------|-------|-----|-------|-----|
| 1         |     |       |     |       |       | 0      | 182    | 228    | 141   |     |       |     |
| 2         |     |       |     |       |       | 0      | 223    | 234    | 134   |     |       |     |
| 3         |     |       |     |       |       | 0      | 245    | 235    | 134   |     |       |     |
| 4         |     |       |     |       |       | 0      | 253    | 245    | 141   |     |       |     |
| 5         |     |       |     |       |       | 0      | 254    | 202    | 141   |     |       |     |
| 6         |     |       |     |       |       | 0      | 253    | 151    | 141   |     |       |     |
| 7         |     |       |     |       |       | 0      | 253    | 90     | 130   |     |       |     |
| 8         |     |       |     |       |       | 0      | 188    | 13     | 123   |     |       |     |
| 9         |     |       |     |       |       | 0      | 130    | 0      | 115   |     |       |     |
| 10        |     |       |     |       |       | 0      | 130    | 0      | 66    |     |       |     |
| 11        |     |       |     |       |       | 0      | 130    | 69     | 13    |     |       |     |
| 12        |     |       |     |       |       | 0      | 145    | 151    | 0     |     |       |     |
| 13        |     |       |     |       |       | 0      | 189    | 157    | 0     |     |       |     |
| 14        |     |       |     |       |       | 0      | 197    | 168    | 0     |     |       |     |
| 15        |     |       |     |       |       | 0      | 189    | 173    | 0     |     |       |     |
| 16        |     |       |     |       |       | 0      | 187    | 182    | 0     |     |       |     |
| 17        |     |       |     |       |       | 0      | 195    | 193    | 0     |     |       |     |
| 18        |     |       |     |       |       | 0      | 221    | 211    | 0     |     |       |     |
| 19        |     |       |     |       |       | 77     | 240    | 230    | 0     |     |       |     |
| 20        |     |       |     |       |       | 109    | 229    | 230    | 0     |     |       |     |
| 21        |     |       |     |       |       | 109    | 213    | 230    | 0     |     |       |     |
| 22        |     |       |     |       |       | 110    | 213    | 228    | 0     |     |       |     |
| 23        |     |       |     |       |       | 111    | 206    | 216    | 0     |     |       |     |
| 24        |     |       |     |       |       | 66     | 188    | 206    | 0     |     |       |     |
| 25        |     |       |     |       |       | 0      | 166    | 206    | 0     |     |       |     |
| 26        |     |       |     |       |       | 56     | 157    | 200    | 0     |     |       |     |
| 27        |     |       |     |       |       | 102    | 168    | 197    | 0     |     |       |     |
| 28        |     |       |     |       |       | 111    | 175    | 183    | 0     |     |       |     |
| 29        |     |       |     |       |       | 125    | 183    | 174    | 0     |     |       |     |
| 30        |     |       |     |       |       | 142    | 204    | 166    | 0     |     |       |     |
| 31        |     | ----- |     | ----- |       | -----  | 215    | 148    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       |       | 1,118  | 6,121  | 5,316  | 1,279 |     |       |     |
| MEAN      |     |       |     |       |       | 37.3   | 197    | 171    | 42.6  |     |       |     |
| MAX       |     |       |     |       |       | 142    | 254    | 245    | 141   |     |       |     |
| MIN       |     |       |     |       |       | 0      | 130    | 0      | 0     |     |       |     |
| AC-FT     |     |       |     |       |       | 2,220  | 12,140 | 10,540 | 2,540 |     |       |     |
| YEAR 1996 | MAX | 254   | MIN | 0     | AC-FT | 27,440 |        |        |       |     |       |     |

# REPUBLICAN RIVER BASIN

## THOMPSON CREEK at Riverton, 06851500 - 1996

LOCATION.--NW1/4NW1/4 Sec. 2-1-13 W., Franklin County, Lat. 40°05'21", Long. 98°45'38", on left bank 15 feet downstream from bridge on U. S. Highway 136, at west edge of Riverton, 240 feet upstream from Burlington Northern Railroad bridge, and 0.5 miles upstream from the mouth.

DRAINAGE AREA.--290 square miles; approximately 197 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 1,753.38 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1948 - 1956, Annual peaks 1962 - 1968, occasional low flow measurements 1961 -1968, 1968 - 1975, 1977 - present

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

E indicates estimated daily discharge. Estimated daily discharges: January 1-12, 18 February 7, 10-12, 15-17, 27-March 1, November 10-14, 16,17, 24-28, December 16-31. Records fair, except estimated records 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 7.8 cubic feet per second July 29, 1995.

EXTREMES FOR CURRENT YEAR.--Peak discharge 4,890 cubic feet per second July 19, gage height 12.66 feet; minimum daily discharge 6.5 cubic feet per second June 11.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day   | JAN   | FEB   | MAR   | APR   | MAY   | JUN     | JUL    | AUG   | SEP   | OCT   | NOV   | DEC   |
|-------|-------|-------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|
| 1     | 21E   | 15E   | 20E   | 19    | 24    | 77      | 24     | 58    | 24    | 18    | 25    | 25    |
| 2     | 21E   | 14E   | 20    | 19    | 25    | 20      | 23     | 56    | 21    | 16    | 25    | 26    |
| 3     | 21E   | 16E   | 20    | 19    | 24    | 15      | 22     | 77    | 20    | 18    | 25    | 24    |
| 4     | 20E   | 17E   | 20    | 19    | 24    | 11      | 19     | 62    | 20    | 16    | 25    | 21    |
| 5     | 19E   | 21E   | 21    | 19    | 25    | 11      | 19     | 410   | 19    | 19    | 27    | 20    |
| 6     | 18E   | 30E   | 20E   | 19    | 24    | 10      | 18     | 217   | 19    | 19    | 28    | 18    |
| 7     | 16E   | 50E   | 18E   | 19    | 26    | 8.6     | 21     | 263   | 20    | 19    | 28    | 20    |
| 8     | 16E   | 25    | 17E   | 19    | 26    | 8.5     | 799    | 144   | 19    | 18    | 29    | 16    |
| 9     | 19E   | 25    | 20E   | 20    | 26    | 7.6     | 130    | 51    | 17    | 18    | 28    | 17    |
| 10    | 22E   | 27E   | 22    | 20    | 26    | 6.6     | 33     | 25    | 17    | 21    | 26E   | 19    |
| 11    | 27E   | 23E   | 22    | 20    | 26    | 6.5     | 43     | 17    | 18    | 21    | 27E   | 19    |
| 12    | 30E   | 28E   | 22    | 19    | 29    | 7.3     | 53     | 22    | 17    | 21    | 26E   | 20    |
| 13    | 29    | 24    | 23    | 19    | 30    | 31      | 29     | 29    | 17    | 21    | 26E   | 17    |
| 14    | 29    | 23    | 22    | 24    | 29    | 8.4     | 119    | 32    | 17    | 20    | 29E   | 18    |
| 15    | 24    | 20E   | 22    | 23    | 30    | 9.2     | 37     | 33    | 21    | 20    | 32    | 17    |
| 16    | 27    | 17E   | 21    | 23    | 28    | 171     | 48     | 23    | 16    | 19    | 155E  | 16E   |
| 17    | 24    | 18E   | 21    | 23    | 31    | 63      | 22     | 20    | 17    | 20    | 90E   | 16E   |
| 18    | 21E   | 17    | 21    | 23    | 26    | 22      | 10     | 19    | 21    | 19    | 46    | 15E   |
| 19    | 16E   | 18    | 21    | 23    | 27    | 15      | 747    | 17    | 34    | 19    | 38    | 15E   |
| 20    | 21E   | 19    | 20    | 24    | 28    | 14      | 757    | 14    | 27    | 20    | 30    | 20E   |
| 21    | 26E   | 23    | 20    | 23    | 26    | 12      | 557    | 18    | 22    | 20    | 31    | 17E   |
| 22    | 25E   | 25    | 19    | 23    | 25    | 20      | 736    | 22    | 19    | 20    | 29    | 15E   |
| 23    | 23E   | 26    | 19    | 23    | 874   | 533     | 394    | 23    | 20    | 22    | 27    | 14E   |
| 24    | 20E   | 27    | 17E   | 24    | 121   | 173     | 176    | 22    | 21    | 23    | 26E   | 14E   |
| 25    | 20E   | 26    | 24E   | 23    | 26    | 67      | 67     | 22    | 22    | 23    | 24E   | 15E   |
| 26    | 18E   | 25    | 16E   | 23    | 511   | 37      | 32     | 19    | 22    | 23    | 23E   | 16E   |
| 27    | 20E   | 23E   | 19E   | 24    | 1,020 | 25      | 19     | 18    | 21    | 23    | 24E   | 18E   |
| 28    | 25E   | 20E   | 19    | 27    | 301   | 24      | 12     | 19    | 20    | 24    | 25E   | 20E   |
| 29    | 21E   | 18E   | 18    | 28    | 60    | 23      | 190    | 19    | 19    | 25    | 25    | 16E   |
| 30    | 16E   | ----- | 19    | 27    | 21    | 25      | 415    | 35    | 20    | 24    | 24    | 20E   |
| 31    | 14E   | ----- | 19    | ----- | 52    | -----   | 159    | 42    | ----- | 25    | ----- | 14E   |
| TOTAL | 669   | 660   | 622   | 658   | 3,571 | 1,461.7 | 5,730  | 1,848 | 607   | 636   | 1,023 | 558   |
| MEAN  | 21.6  | 22.8  | 20.1  | 21.9  | 115   | 48.7    | 185    | 59.6  | 20.2  | 20.5  | 34.1  | 18.0  |
| MAX   | 30    | 50    | 24    | 28    | 1,020 | 533     | 799    | 410   | 34    | 25    | 155   | 26    |
| MIN   | 14    | 14    | 16    | 19    | 21    | 6.5     | 10     | 14    | 16    | 16    | 23    | 14    |
| AC-FT | 1,330 | 1,310 | 1,230 | 1,310 | 7,080 | 2,900   | 11,370 | 3,670 | 1,200 | 1,260 | 2,030 | 1,110 |

# REPUBLICAN RIVER BASIN

**FRANKLIN PUMP CANAL from Republican River, 00054000 - 1996**

LOCATION.--NW1/4NE1/4 Sec. 10-1-14 W. near Franklin

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

PERIOD OF RECORD.--1954 - present

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

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       |       |       | 0     | 32    | 25    |     |       |     |
| 2         |     |       |     |       |       |       | 15    | 29    | 26    |     |       |     |
| 3         |     |       |     |       |       |       | 34    | 27    | 20    |     |       |     |
| 4         |     |       |     |       |       |       | 38    | 27    | 17    |     |       |     |
| 5         |     |       |     |       |       |       | 42    | 20    | 16    |     |       |     |
| 6         |     |       |     |       |       |       | 44    | 4.8   | 16    |     |       |     |
| 7         |     |       |     |       |       |       | 42    | 0     | 5.7   |     |       |     |
| 8         |     |       |     |       |       |       | 16    | 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        |     |       |     |       |       |       | 0     | 0     | 0     |     |       |     |
| 18        |     |       |     |       |       |       | 6.4   | 2.0   | 0     |     |       |     |
| 19        |     |       |     |       |       |       | 25    | 24    | 0     |     |       |     |
| 20        |     |       |     |       |       |       | 11    | 31    | 0     |     |       |     |
| 21        |     |       |     |       |       |       | 0     | 32    | 0     |     |       |     |
| 22        |     |       |     |       |       |       | 11    | 36    | 0     |     |       |     |
| 23        |     |       |     |       |       |       | 18    | 31    | 0     |     |       |     |
| 24        |     |       |     |       |       |       | 16    | 27    | 0     |     |       |     |
| 25        |     |       |     |       |       |       | 16    | 26    | 0     |     |       |     |
| 26        |     |       |     |       |       |       | 13    | 31    | 0     |     |       |     |
| 27        |     |       |     |       |       |       | 12    | 34    | 0     |     |       |     |
| 28        |     |       |     |       |       |       | 12    | 34    | 0     |     |       |     |
| 29        |     |       |     |       |       |       | 27    | 34    | 0     |     |       |     |
| 30        |     | ----- |     |       |       |       | 33    | 30    | 0     |     |       |     |
| 31        |     | ----- |     | ----- |       | ----- | 33    | 27    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       |       |       | 464.4 | 538.8 | 125.7 |     |       |     |
| MEAN      |     |       |     |       |       |       | 15.0  | 17.4  | 4.19  |     |       |     |
| MAX       |     |       |     |       |       |       | 44    | 36    | 26    |     |       |     |
| MIN       |     |       |     |       |       |       | 0     | 0     | 0     |     |       |     |
| AC-FT     |     |       |     |       |       |       | 921   | 1,070 | 249   |     |       |     |
| YEAR 1996 | MAX | 44    | MIN | 0     | AC-FT | 2,240 |       |       |       |     |       |     |

# REPUBLICAN RIVER BASIN

**ELM CREEK at Amboy, 06852000 - 1996**

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, 200 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, 1960 - 1977, occasional low flow measurements 1954 - 1977, 1977 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1993.  
E indicates estimated daily discharge. Estimated records January 1-9, 18-19, 25, 28-February 4, June 2-26, December 26-28.  
Records good, except estimated records poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 7,800 cubic feet per second September 29, 1983 at gage height 16.96 ft. from flood mark; maximum gage height 17.05 ft. July 4, 1959; minimum daily discharge 6.2 cubic feet per second August 26, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharge estimated 3,500 cubic feet per second June 23, gage height 15.79 from high water mark; minimum daily discharge 10 cubic feet per second August 2 & 4.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR  | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|--------|------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
| 1         | 14E   | 12E    | 15   | 15    | 17    | 70     | 12    | 11    | 14    | 13     | 15    | 17    |
| 2         | 14E   | 11E    | 15   | 15    | 19    | 20E    | 12    | 10    | 14    | 13     | 14    | 16    |
| 3         | 14E   | 11E    | 15   | 15    | 17    | 17E    | 11    | 11    | 14    | 14     | 14    | 16    |
| 4         | 14E   | 13E    | 15   | 15    | 17    | 16E    | 12    | 10    | 13    | 14     | 14    | 16    |
| 5         | 14E   | 14     | 15   | 15    | 17    | 15E    | 12    | 582   | 13    | 13     | 14    | 16    |
| 6         | 14E   | 15     | 14   | 15    | 17    | 15E    | 11    | 260   | 12    | 13     | 15    | 16    |
| 7         | 13E   | 15     | 14   | 15    | 17    | 16E    | 11    | 74    | 13    | 14     | 15    | 16    |
| 8         | 13E   | 15     | 14   | 16    | 17    | 14E    | 76    | 38    | 13    | 13     | 15    | 16    |
| 9         | 14E   | 15     | 13   | 16    | 17    | 14E    | 19    | 27    | 15    | 13     | 15    | 16    |
| 10        | 15    | 15     | 14   | 16    | 18    | 13E    | 17    | 24    | 13    | 13     | 15    | 17    |
| 11        | 15    | 15     | 14   | 16    | 17    | 13E    | 17    | 23    | 13    | 13     | 15    | 17    |
| 12        | 15    | 15     | 14   | 16    | 19    | 14E    | 16    | 22    | 13    | 13     | 15    | 17    |
| 13        | 15    | 16     | 14   | 17    | 18    | 15E    | 16    | 20    | 13    | 13     | 14    | 17    |
| 14        | 15    | 15     | 14   | 17    | 17    | 14E    | 19    | 20    | 13    | 13     | 15    | 17    |
| 15        | 15    | 15     | 14   | 17    | 17    | 14E    | 16    | 19    | 15    | 13     | 16    | 17    |
| 16        | 15    | 15     | 14   | 17    | 17    | 270E   | 19    | 18    | 14    | 13     | 132   | 17    |
| 17        | 15    | 15     | 14   | 17    | 17    | 20E    | 15    | 17    | 14    | 13     | 190   | 17    |
| 18        | 20E   | 15     | 14   | 16    | 16    | 15E    | 14    | 16    | 16    | 13     | 65    | 17    |
| 19        | 17E   | 15     | 13   | 16    | 16    | 14E    | 202   | 16    | 84    | 13     | 30    | 17    |
| 20        | 16    | 15     | 14   | 16    | 16    | 14E    | 87    | 15    | 65    | 13     | 21    | 17    |
| 21        | 16    | 16     | 14   | 16    | 16    | 14E    | 42    | 14    | 25    | 13     | 18    | 17    |
| 22        | 15    | 15     | 14   | 16    | 24    | 15E    | 40    | 29    | 17    | 13     | 17    | 17    |
| 23        | 14    | 15     | 14   | 17    | 799   | 1,600E | 39    | 35    | 15    | 13     | 16    | 17    |
| 24        | 14    | 15     | 14   | 17    | 155   | 40E    | 24    | 17    | 14    | 13     | 16    | 17    |
| 25        | 14E   | 16     | 14   | 17    | 74    | 20E    | 17    | 15    | 15    | 13     | 16    | 17E   |
| 26        | 14    | 15     | 15   | 17    | 179   | 18E    | 15    | 14    | 15    | 14     | 15    | 16E   |
| 27        | 14    | 15     | 14   | 16    | 236   | 17     | 14    | 14    | 14    | 13     | 16    | 16E   |
| 28        | 14E   | 14     | 14   | 18    | 93    | 15     | 14    | 13    | 14    | 14     | 16    | 16E   |
| 29        | 13E   | 14     | 14   | 20    | 79    | 13     | 13    | 14    | 13    | 14     | 17    | 17    |
| 30        | 13E   | -----  | 14   | 18    | 266   | 13     | 13    | 14    | 13    | 15     | 17    | 16    |
| 31        | 12E   | -----  | 15   | ----- | 154   | -----  | 12    | 14    | ----- | 14     | ----- | 16    |
| TOTAL     | 450   | 422    | 439  | 490   | 2,418 | 2,378  | 857   | 1,426 | 547   | 412    | 823   | 514   |
| MEAN      | 14.5  | 14.6   | 14.2 | 16.3  | 78.0  | 79.3   | 27.6  | 46.0  | 18.2  | 13.3   | 27.4  | 16.6  |
| MAX       | 20    | 16     | 15   | 20    | 799   | 1,600  | 202   | 582   | 84    | 15     | 190   | 17    |
| MIN       | 12    | 11     | 13   | 15    | 16    | 13     | 11    | 10    | 12    | 13     | 14    | 16    |
| AC-FT     | 893   | 837    | 871  | 972   | 4,800 | 4,720  | 1,700 | 2,830 | 1,080 | 817    | 1,630 | 1,020 |
| YEAR 1996 | TOTAL | 11,176 | MEAN | 30.5  | MAX   | 1,600  | MIN   | 10    | AC-FT | 22,170 |       |       |



# REPUBLICAN RIVER BASIN

## COURTLAND CANAL from Republican River, 00031000 - 1996

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

GAGE.--Continuous stage recorder and orifice

PERIOD OF RECORD.--1952 -present

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

### DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL    | AUG    | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|--------|--------|-------|-----|-------|-----|
| 1         |     |       |     | 0     | 73    | 88     | 409    | 475    | 345   |     |       |     |
| 2         |     |       |     | 0     | 81    | 83     | 405    | 471    | 343   |     |       |     |
| 3         |     |       |     | 0     | 90    | 70     | 402    | 473    | 340   |     |       |     |
| 4         |     |       |     | 0     | 90    | 65     | 396    | 473    | 275   |     |       |     |
| 5         |     |       |     | 0     | 90    | 65     | 400    | 435    | 194   |     |       |     |
| 6         |     |       |     | 0     | 90    | 66     | 410    | 411    | 128   |     |       |     |
| 7         |     |       |     | 0     | 90    | 66     | 415    | 450    | 105   |     |       |     |
| 8         |     |       |     | 0     | 91    | 66     | 431    | 444    | 105   |     |       |     |
| 9         |     |       |     | 0     | 90    | 66     | 397    | 432    | 63    |     |       |     |
| 10        |     |       |     | 0     | 91    | 93     | 429    | 432    | 0     |     |       |     |
| 11        |     |       |     | 0     | 91    | 114    | 424    | 431    | 0     |     |       |     |
| 12        |     |       |     | 0     | 92    | 109    | 427    | 362    | 0     |     |       |     |
| 13        |     |       |     | 0     | 90    | 99     | 426    | 334    | 0     |     |       |     |
| 14        |     |       |     | 0     | 93    | 113    | 432    | 334    | 0     |     |       |     |
| 15        |     |       |     | 0     | 96    | 124    | 442    | 333    | 0     |     |       |     |
| 16        |     |       |     | 0     | 99    | 122    | 433    | 334    | 0     |     |       |     |
| 17        |     |       |     | 0     | 99    | 155    | 433    | 332    | 0     |     |       |     |
| 18        |     |       |     | 0     | 99    | 168    | 433    | 329    | 0     |     |       |     |
| 19        |     |       |     | 0     | 99    | 196    | 440    | 327    | 0     |     |       |     |
| 20        |     |       |     | 0     | 94    | 204    | 458    | 325    | 0     |     |       |     |
| 21        |     |       |     | 0     | 90    | 238    | 466    | 325    | 0     |     |       |     |
| 22        |     |       |     | 0     | 92    | 334    | 454    | 326    | 0     |     |       |     |
| 23        |     |       |     | 0     | 167   | 365    | 462    | 328    | 0     |     |       |     |
| 24        |     |       |     | 0     | 222   | 377    | 445    | 330    | 0     |     |       |     |
| 25        |     |       |     | 73    | 200   | 374    | 436    | 330    | 0     |     |       |     |
| 26        |     |       |     | 140   | 198   | 365    | 431    | 333    | 0     |     |       |     |
| 27        |     |       |     | 134   | 221   | 408    | 434    | 333    | 0     |     |       |     |
| 28        |     |       |     | 125   | 182   | 410    | 434    | 333    | 0     |     |       |     |
| 29        |     |       |     | 92    | 103   | 411    | 442    | 333    | 0     |     |       |     |
| 30        |     | ----- |     | 65    | 80    | 404    | 463    | 333    | 0     |     |       |     |
| 31        |     | ----- |     | ----- | 97    | -----  | 470    | 338    | ----- |     | ----- |     |
| TOTAL     |     |       |     | 629   | 3,480 | 5,818  | 13,379 | 11,579 | 1,898 |     |       |     |
| MEAN      |     |       |     | 21.0  | 112   | 194    | 432    | 374    | 63.3  |     |       |     |
| MAX       |     |       |     | 140   | 222   | 411    | 470    | 475    | 345   |     |       |     |
| MIN       |     |       |     | 0     | 73    | 65     | 396    | 325    | 0     |     |       |     |
| AC-FT     |     |       |     | 1,250 | 6,900 | 11,540 | 26,540 | 22,970 | 3,760 |     |       |     |
| YEAR 1996 | MAX | 475   | MIN | 0     | AC-FT | 72,960 |        |        |       |     |       |     |

# REPUBLICAN RIVER BASIN

**SUPERIOR CANAL from Republican River, 00137000 - 1996**

LOCATION.--NW1/4NW1/4 Sec. 8-1-9 W. near Guide Rock

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

PERIOD OF RECORD.--1951 - present

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

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN | FEB   | MAR | APR   | MAY   | JUN    | JUL   | AUG   | SEP   | OCT | NOV   | DEC |
|-----------|-----|-------|-----|-------|-------|--------|-------|-------|-------|-----|-------|-----|
| 1         |     |       |     |       |       | 0      | 121   | 109   | 65    |     |       |     |
| 2         |     |       |     |       |       | 0      | 136   | 112   | 52    |     |       |     |
| 3         |     |       |     |       |       | 0      | 138   | 113   | 26    |     |       |     |
| 4         |     |       |     |       |       | 0      | 134   | 112   | 5.5   |     |       |     |
| 5         |     |       |     |       |       | 0      | 138   | 84    | 0     |     |       |     |
| 6         |     |       |     |       |       | 0      | 138   | 15    | 0     |     |       |     |
| 7         |     |       |     |       |       | 0      | 139   | 0     | 0     |     |       |     |
| 8         |     |       |     |       |       | 0      | 125   | 0     | 0     |     |       |     |
| 9         |     |       |     |       |       | 0      | 93    | 0     | 0     |     |       |     |
| 10        |     |       |     |       |       | 0      | 97    | 40    | 0     |     |       |     |
| 11        |     |       |     |       |       | 0      | 97    | 79    | 0     |     |       |     |
| 12        |     |       |     |       |       | 0      | 98    | 74    | 0     |     |       |     |
| 13        |     |       |     |       |       | 0      | 98    | 74    | 0     |     |       |     |
| 14        |     |       |     |       |       | 0      | 101   | 79    | 0     |     |       |     |
| 15        |     |       |     |       |       | 0      | 98    | 91    | 0     |     |       |     |
| 16        |     |       |     |       |       | 0      | 96    | 95    | 0     |     |       |     |
| 17        |     |       |     |       |       | 54     | 95    | 95    | 0     |     |       |     |
| 18        |     |       |     |       |       | 79     | 94    | 95    | 0     |     |       |     |
| 19        |     |       |     |       |       | 79     | 95    | 95    | 0     |     |       |     |
| 20        |     |       |     |       |       | 93     | 77    | 94    | 0     |     |       |     |
| 21        |     |       |     |       |       | 101    | 87    | 101   | 0     |     |       |     |
| 22        |     |       |     |       |       | 99     | 88    | 104   | 0     |     |       |     |
| 23        |     |       |     |       |       | 105    | 77    | 104   | 0     |     |       |     |
| 24        |     |       |     |       |       | 111    | 74    | 97    | 0     |     |       |     |
| 25        |     |       |     |       |       | 123    | 75    | 94    | 0     |     |       |     |
| 26        |     |       |     |       |       | 123    | 75    | 82    | 0     |     |       |     |
| 27        |     |       |     |       |       | 131    | 76    | 74    | 0     |     |       |     |
| 28        |     |       |     |       |       | 135    | 77    | 74    | 0     |     |       |     |
| 29        |     |       |     |       |       | 134    | 85    | 74    | 0     |     |       |     |
| 30        |     | ----- |     |       |       | 133    | 101   | 74    | 0     |     |       |     |
| 31        |     | ----- |     | ----- |       | -----  | 108   | 68    | ----- |     | ----- |     |
| TOTAL     |     |       |     |       |       | 1,500  | 3,131 | 2,402 | 148.5 |     |       |     |
| MEAN      |     |       |     |       |       | 50.0   | 101   | 77.5  | 4.95  |     |       |     |
| MAX       |     |       |     |       |       | 135    | 139   | 113   | 65    |     |       |     |
| MIN       |     |       |     |       |       | 0      | 74    | 0     | 0     |     |       |     |
| AC-FT     |     |       |     |       |       | 2,980  | 6,210 | 4,760 | 295   |     |       |     |
| YEAR 1996 | MAX | 139   | MIN | 0     | AC-FT | 14,240 |       |       |       |     |       |     |

## BIG BLUE RIVER BASIN

## BIG BLUE RIVER at Surprise, 06879900 - 1996

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

DRAINAGE AREA.--345 square miles.

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

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

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

E indicates estimated daily discharge. Estimated records January 1-February 18, 24-March 12, 23-27, April 16-June 5, November 23-28, December 15-31. Records good, except estimated records poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 10,700 cubic feet per second July 19, 1965, gage height 11.52 ft.  
No flow during many years.

EXTREMES FOR CURRENT YEAR.--Peak discharge 401 cubic feet per second August 5, gage height 3.55 ft; minimum daily discharge 1.1 cubic feet per second October 7.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB     | MAR   | APR   | MAY     | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|---------|-------|-------|---------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 3.5E  | 1.9E    | 7.0E  | 6.7   | 9.8E    | 250 E | 5.7   | 4.9   | 2.9   | 2.6    | 5.6   | 5.6   |
| 2         | 3.0E  | 1.6E    | 6.4E  | 6.4   | 9.4E    | 190 E | 6.6   | 4.8   | 2.6   | 2.9    | 5.9   | 5.0   |
| 3         | 2.8E  | 1.5E    | 6.2E  | 6.5   | 9.2E    | 150 E | 7.3   | 5.3   | 3.0   | 3.6    | 6.3   | 4.6   |
| 4         | 2.2E  | 1.6E    | 8.0E  | 6.0   | 9.0E    | 80 E  | 7.1   | 5.3   | 2.6   | 3.7    | 7.4   | 4.5   |
| 5         | 2.1E  | 2.1E    | 7.2E  | 5.5   | 8.8E    | 50 E  | 6.9   | 233   | 1.8   | 3.7    | 9.2   | 4.7   |
| 6         | 1.9E  | 3.0E    | 5.2E  | 4.7   | 9.2E    | 27    | 6.6   | 59    | 1.8   | 3.4    | 10    | 4.7   |
| 7         | 1.8E  | 12 E    | 3.8E  | 4.9   | 9.0E    | 18    | 7.2   | 39    | 2.6   | 1.1    | 6.3   | 4.5   |
| 8         | 1.8E  | 84 E    | 3.2E  | 6.6   | 20 E    | 13    | 7.4   | 20    | 22    | 1.3    | 3.0   | 4.4   |
| 9         | 2.0E  | 50 E    | 3.0E  | 7.8   | 39 E    | 9.5   | 6.7   | 9.0   | 4.2   | 1.8    | 3.1   | 4.6   |
| 10        | 2.1E  | 38 E    | 3.0E  | 8.1   | 24 E    | 6.7   | 6.3   | 5.9   | 1.7   | 2.4    | 3.3   | 4.9   |
| 11        | 1.3E  | 18 E    | 4.0E  | 6.8   | 12 E    | 5.0   | 6.5   | 5.7   | 2.2   | 2.2    | 2.8   | 5.2   |
| 12        | 2.8E  | 17 E    | 6.0E  | 6.9   | 7.0E    | 4.8   | 5.4   | 5.5   | 1.8   | 2.5    | 3.6   | 5.0   |
| 13        | 2.7E  | 17 E    | 5.2   | 7.0   | 8.0E    | 5.0   | 6.7   | 5.1   | 1.6   | 3.3    | 4.9   | 5.2   |
| 14        | 2.4E  | 12 E    | 4.9   | 9.3   | 14 E    | 4.8   | 9.0   | 4.9   | 1.3   | 2.8    | 5.6   | 5.3   |
| 15        | 2.1E  | 7.4E    | 4.2   | 10    | 9.0E    | 4.2   | 8.3   | 4.4   | 1.7   | 3.5    | 8.1   | 4.2E  |
| 16        | 2.2E  | 4.8E    | 4.2   | 10 E  | 20 E    | 5.5   | 12    | 9.1   | 1.8   | 3.4    | 47    | 3.9E  |
| 17        | 2.2E  | 6.2E    | 4.1   | 10 E  | 50 E    | 6.0   | 10    | 15    | 1.6   | 2.7    | 63    | 3.6E  |
| 18        | 1.8E  | 7.0E    | 3.9   | 10 E  | 195 E   | 5.9   | 11    | 9.8   | 1.4   | 2.8    | 28    | 3.7E  |
| 19        | 1.8E  | 6.9     | 4.4   | 10 E  | 185 E   | 6.1   | 19    | 16    | 6.6   | 4.0    | 16    | 3.8E  |
| 20        | 1.9E  | 7.6     | 4.1   | 10 E  | 110 E   | 6.3   | 15    | 13    | 12    | 4.0    | 7.1   | 3.8E  |
| 21        | 1.9E  | 7.9     | 4.1   | 10 E  | 90 E    | 6.9   | 10    | 9.3   | 4.2   | 4.7    | 14    | 3.9E  |
| 22        | 2.0E  | 7.3     | 4.5   | 10 E  | 100 E   | 7.1   | 11    | 7.0   | 4.0   | 4.8    | 14    | 4.0E  |
| 23        | 2.0E  | 7.3     | 4.4E  | 10 E  | 185 E   | 8.0   | 10    | 8.8   | 1.7   | 4.7    | 8.0E  | 3.7E  |
| 24        | 2.0E  | 5.6E    | 4.0E  | 10 E  | 150 E   | 20    | 14    | 6.4   | 1.5   | 4.4    | 4.8E  | 3.4E  |
| 25        | 2.0E  | 5.2E    | 3.4E  | 9.0E  | 100 E   | 14    | 11    | 3.7   | 1.2   | 4.6    | 4.2E  | 3.4E  |
| 26        | 2.0E  | 5.6E    | 3.0E  | 8.0E  | 150 E   | 11    | 8.6   | 3.2   | 1.2   | 3.0    | 4.0E  | 3.6E  |
| 27        | 2.0E  | 6.4E    | 6.0E  | 7.0E  | 200 E   | 8.4   | 8.4   | 2.7   | 1.4   | 3.3    | 4.2E  | 3.7E  |
| 28        | 2.1E  | 7.0E    | 8.8   | 8.0E  | 290 E   | 6.1   | 7.6   | 2.2   | 2.4   | 4.4    | 4.4E  | 4.0E  |
| 29        | 2.1E  | 6.8E    | 8.4   | 10 E  | 260 E   | 5.7   | 6.8   | 2.7   | 3.1   | 5.2    | 5.4   | 4.2E  |
| 30        | 2.1E  | -----   | 8.7   | 10 E  | 185 E   | 5.6   | 5.5   | 2.6   | 2.5   | 4.1    | 5.8   | 4.3E  |
| 31        | 2.1E  | -----   | 7.5   | ----- | 200 E   | ----- | 5.8   | 3.3   | ----- | 4.4    | ----- | 4.4E  |
| TOTAL     | 67.7  | 358.7   | 160.8 | 245.1 | 2,667.4 | 940.6 | 269.4 | 526.6 | 100.4 | 105.3  | 315.0 | 133.8 |
| MEAN      | 2.18  | 12.4    | 5.19  | 8.17  | 86.0    | 31.4  | 8.69  | 17.0  | 3.35  | 3.40   | 10.5  | 4.32  |
| MAX       | 3.5   | 84      | 8.8   | 10    | 290     | 250   | 19    | 233   | 22    | 5.2    | 63    | 5.6   |
| MIN       | 1.8   | 1.5     | 3.0   | 4.7   | 7.0     | 4.2   | 5.4   | 2.2   | 1.2   | 1.1    | 2.8   | 3.4   |
| AC-FT     | 134   | 711     | 319   | 486   | 5,290   | 1,870 | 534   | 1,040 | 199   | 209    | 625   | 265   |
| YEAR 1996 | TOTAL | 5,890.8 | MEAN  | 16.1  | MAX     | 290   | MIN   | 1.1   | AC-FT | 11,680 |       |       |

# BIG BLUE RIVER BASIN

**LINCOLN CREEK near Seward, 06880000 - 1996**

LOCATION.--NW1/4NE1/4 Sec. 24-11-2 E., Seward County, Lat. 40° 54' 57", Long. 97° 06' 43", on left bank at downstream side of county road bridge, 2 miles west of Seward, and 3.8 miles upstream from mouth.

DRAINAGE AREA.--438 square miles.

GAGE.--Continuous stage recorder. Gage datum is 1,429.27 feet above sea level.

PERIOD OF RECORD.--1953 - 1973, March 1974 - present. Month discharge only for some periods, published in WSP 1730.

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1994.  
E indicates estimated daily discharge. Estimated records January 1-February 20, 25-March 11, 24-29, November 23-December 10, 15-31. Records good, except estimated records 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 1,810 cubic feet per second May 28, gage height 17.13 feet; minimum daily discharge 14 cubic feet per second estimated January 6, 7.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP   | OCT    | NOV   | DEC   |
|-----------|-------|--------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|
| 1         | 19E   | 17E    | 24E   | 30    | 29     | 729   | 40    | 30    | 22    | 19     | 19    | 31E   |
| 2         | 18E   | 16E    | 23E   | 30    | 29     | 390   | 39    | 27    | 21    | 19     | 20    | 31E   |
| 3         | 16E   | 15E    | 22E   | 30    | 29     | 228   | 35    | 26    | 20    | 18     | 20    | 30E   |
| 4         | 16E   | 15E    | 21E   | 31    | 28     | 267   | 36    | 32    | 20    | 18     | 20    | 33E   |
| 5         | 15E   | 16E    | 20E   | 30    | 27     | 204   | 34    | 41    | 21    | 18     | 21    | 33E   |
| 6         | 14E   | 17E    | 19E   | 29    | 29     | 156   | 32    | 108   | 20    | 19     | 21    | 33E   |
| 7         | 14E   | 20E    | 21E   | 28    | 29     | 105   | 33    | 118   | 20    | 18     | 21    | 32E   |
| 8         | 15E   | 26E    | 22E   | 28    | 82     | 75    | 34    | 75    | 22    | 18     | 21    | 31E   |
| 9         | 16E   | 36E    | 23E   | 28    | 459    | 65    | 35    | 45    | 23    | 19     | 21    | 31E   |
| 10        | 17E   | 60E    | 23E   | 27    | 757    | 57    | 36    | 36    | 24    | 19     | 21    | 32E   |
| 11        | 18E   | 48E    | 24E   | 27    | 252    | 52    | 41    | 33    | 22    | 18     | 21    | 33    |
| 12        | 20E   | 42E    | 25    | 27    | 196    | 49    | 43    | 30    | 21    | 19     | 22    | 32    |
| 13        | 22E   | 42E    | 25    | 25    | 174    | 50    | 42    | 27    | 20    | 19     | 22    | 31    |
| 14        | 23E   | 40E    | 25    | 26    | 277    | 45    | 42    | 26    | 20    | 19     | 23    | 32    |
| 15        | 22E   | 35E    | 25    | 27    | 168    | 44    | 39    | 23    | 20    | 19     | 25    | 31E   |
| 16        | 20E   | 27E    | 26    | 27    | 370    | 44    | 40    | 47    | 21    | 19     | 62    | 29E   |
| 17        | 19E   | 28E    | 26    | 27    | 775    | 41    | 44    | 45    | 20    | 19     | 143   | 29E   |
| 18        | 19E   | 28E    | 26    | 27    | 916    | 41    | 36    | 29    | 19    | 19     | 96    | 28E   |
| 19        | 17E   | 27E    | 26    | 27    | 689    | 40    | 33    | 44    | 22    | 19     | 77    | 27E   |
| 20        | 18E   | 26E    | 26    | 27    | 426    | 38    | 184   | 42    | 27    | 19     | 84    | 27E   |
| 21        | 20E   | 26     | 25    | 27    | 202    | 36    | 306   | 46    | 22    | 19     | 98    | 27E   |
| 22        | 22E   | 26     | 26    | 28    | 135    | 38    | 209   | 451   | 22    | 19     | 67    | 28E   |
| 23        | 23E   | 26     | 26    | 28    | 605    | 290   | 103   | 74    | 21    | 19     | 52E   | 24E   |
| 24        | 22E   | 25     | 25E   | 28    | 312    | 118   | 57    | 35    | 48    | 19     | 40E   | 21E   |
| 25        | 21E   | 24E    | 21E   | 28    | 145    | 68    | 46    | 29    | 48    | 19     | 38E   | 22E   |
| 26        | 21E   | 24E    | 20E   | 26    | 638    | 69    | 40    | 28    | 32    | 19     | 30E   | 22E   |
| 27        | 21E   | 24E    | 24E   | 25    | 1,600  | 56    | 36    | 28    | 25    | 18     | 31E   | 23E   |
| 28        | 21E   | 23E    | 29E   | 26    | 1,700  | 52    | 35    | 26    | 23    | 18     | 32E   | 23E   |
| 29        | 20E   | 22E    | 31E   | 32    | 1,470  | 45    | 41    | 25    | 20    | 19     | 32E   | 23E   |
| 30        | 18E   | -----  | 32    | 31    | 724    | 43    | 50    | 24    | 19    | 20     | 33E   | 24E   |
| 31        | 17E   | -----  | 32    | ----- | 338    | ----- | 34    | 23    | ----- | 19     | ----- | 25E   |
| TOTAL     | 584   | 801    | 763   | 837   | 13,610 | 3,535 | 1,855 | 1,673 | 705   | 582    | 1,233 | 878   |
| MEAN      | 18.8  | 27.6   | 24.6  | 27.9  | 439    | 118   | 59.8  | 54.0  | 23.5  | 18.8   | 41.1  | 28.3  |
| MAX       | 23    | 60     | 32    | 32    | 1,700  | 729   | 306   | 451   | 48    | 20     | 143   | 33    |
| MIN       | 14    | 15     | 19    | 25    | 27     | 36    | 32    | 23    | 19    | 18     | 19    | 21    |
| AC-FT     | 1,160 | 1,590  | 1,510 | 1,660 | 27,000 | 7,010 | 3,680 | 3,320 | 1,400 | 1,150  | 2,450 | 1,740 |
| YEAR 1996 | TOTAL | 27,056 | MEAN  | 73.9  | MAX    | 1,700 | MIN   | 14    | AC-FT | 53,670 |       |       |

## BIG BLUE RIVER BASIN

## BIG BLUE RIVER at Seward, 06880500 - 1996

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.--1953 - present. Month discharge only for some periods, published in WSP 1730.

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1994.  
E indicates estimated daily discharge. Estimated records January 1-February 20, 26-March 11, 24-28, November 24-December 3, 17-31. Records good except, estimated records poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 15,300 cubic feet per second June 18, 1957, gage height 22.34 feet; no flow July 30, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharge 3,500 cubic feet per second May 28, gage height 17.10 feet; minimum daily discharge 28 cubic feet per second estimated February 4.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB    | MAR   | APR   | MAY    | JUN    | JUL   | AUG    | SEP   | OCT     | NOV   | DEC   |
|-----------|-------|--------|-------|-------|--------|--------|-------|--------|-------|---------|-------|-------|
| 1         | 49E   | 33E    | 62E   | 94    | 123    | 1,150  | 90    | 49     | 52    | 42      | 45    | 76E   |
| 2         | 49E   | 29E    | 62E   | 106   | 100    | 1,150  | 85    | 45     | 49    | 41      | 47    | 78E   |
| 3         | 44E   | 29E    | 64E   | 119   | 92     | 685    | 80    | 43     | 48    | 40      | 47    | 78E   |
| 4         | 40E   | 28E    | 62E   | 119   | 88     | 551    | 78    | 45     | 46    | 39      | 46    | 74    |
| 5         | 39E   | 31E    | 60E   | 105   | 87     | 410    | 73    | 53     | 46    | 36      | 48    | 75    |
| 6         | 38E   | 38E    | 58E   | 88    | 91     | 292    | 78    | 168    | 45    | 39      | 50    | 74    |
| 7         | 37E   | 52E    | 56E   | 79    | 85     | 212    | 73    | 551    | 45    | 40      | 51    | 71    |
| 8         | 38E   | 80E    | 58E   | 76    | 121    | 160    | 70    | 623    | 47    | 40      | 52    | 71    |
| 9         | 39E   | 130E   | 62E   | 73    | 742    | 141    | 69    | 366    | 56    | 42      | 51    | 71    |
| 10        | 41E   | 300E   | 68E   | 72    | 1,550  | 124    | 68    | 110    | 66    | 41      | 53    | 72    |
| 11        | 46E   | 290E   | 70E   | 69    | 569    | 113    | 69    | 73     | 59    | 40      | 53    | 72    |
| 12        | 49E   | 180E   | 76    | 71    | 292    | 103    | 69    | 60     | 48    | 38      | 54    | 71    |
| 13        | 52E   | 140E   | 79    | 70    | 245    | 101    | 67    | 54     | 44    | 40      | 55    | 70    |
| 14        | 54E   | 135E   | 83    | 72    | 424    | 108    | 71    | 50     | 43    | 39      | 56    | 71    |
| 15        | 50E   | 116E   | 78    | 77    | 269    | 111    | 66    | 44     | 44    | 38      | 60    | 71    |
| 16        | 54E   | 104E   | 77    | 79    | 445    | 100    | 62    | 64     | 45    | 39      | 144   | 71    |
| 17        | 52E   | 98E    | 75    | 89    | 1,090  | 94     | 67    | 99     | 43    | 42      | 464   | 68E   |
| 18        | 46E   | 96E    | 73    | 96    | 1,030  | 94     | 59    | 96     | 43    | 45      | 404   | 62E   |
| 19        | 40E   | 94E    | 72    | 87    | 719    | 89     | 61    | 129    | 54    | 45      | 216   | 60E   |
| 20        | 45E   | 98E    | 69    | 84    | 470    | 85     | 273   | 138    | 75    | 45      | 165   | 58E   |
| 21        | 50E   | 98     | 66    | 83    | 259    | 238    | 412   | 183    | 83    | 48      | 160   | 60E   |
| 22        | 48E   | 97     | 64    | 88    | 160    | 1,330  | 268   | 1,040  | 79    | 47      | 126   | 56E   |
| 23        | 47E   | 92     | 68    | 84    | 1,080  | 2,170  | 155   | 404    | 62    | 46      | 109   | 52E   |
| 24        | 45E   | 88     | 64E   | 76    | 585    | 1,720  | 106   | 113    | 76    | 46      | 80E   | 50E   |
| 25        | 44E   | 86     | 41E   | 70    | 300    | 1,010  | 87    | 86     | 88    | 47      | 62E   | 48E   |
| 26        | 43E   | 74E    | 39E   | 62    | 936    | 349    | 71    | 77     | 64    | 46      | 60E   | 52E   |
| 27        | 43E   | 66E    | 52E   | 51    | 2,960  | 194    | 62    | 69     | 54    | 45      | 64E   | 58E   |
| 28        | 43E   | 62E    | 64E   | 66    | 3,350  | 141    | 59    | 78     | 50    | 45      | 68E   | 60E   |
| 29        | 42E   | 58E    | 78    | 86    | 3,010  | 119    | 67    | 81     | 48    | 45      | 70E   | 62E   |
| 30        | 39E   | -----  | 89    | 107   | 1,880  | 104    | 78    | 64     | 43    | 43      | 74E   | 62E   |
| 31        | 35E   | -----  | 100   | ----- | 739    | -----  | 57    | 56     | ----- | 44      | ----- | 64E   |
| TOTAL     | 1,381 | 2,822  | 2,088 | 2,498 | 23,891 | 13,248 | 3,050 | 5,111  | 1,645 | 1,315   | 3,034 | 2,038 |
| MEAN      | 44.5  | 97.3   | 67.4  | 83.3  | 771    | 442    | 98.4  | 165    | 54.8  | 42.4    | 101   | 65.7  |
| MAX       | 54    | 300    | 100   | 119   | 3,350  | 2,170  | 412   | 1,040  | 88    | 48      | 464   | 78    |
| MIN       | 35    | 28     | 39    | 51    | 85     | 85     | 57    | 43     | 43    | 38      | 45    | 48    |
| AC-FT     | 2,740 | 5,600  | 4,140 | 4,950 | 47,390 | 26,280 | 6,050 | 10,140 | 3,260 | 2,610   | 6,020 | 4,040 |
| YEAR 1996 | TOTAL | 62,121 | MEAN  | 170   | MAX    | 3,350  | MIN   | 28     | AC-FT | 123,200 |       |       |

# BIG BLUE RIVER BASIN

**TURKEY CREEK near Wilber, 06881200 - 1996**

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.  
E indicates estimated daily discharge. Estimated daily discharges January 1 to February 18, February 24 to March 13, March 25-30, April 14, November 24 to December 31. Records good except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 4,740 cubic feet per second May 10, gage height 15.84 feet; minimum daily discharge 1.7 cubic feet per second October 18.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB      | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP   | OCT    | NOV     | DEC   |
|-----------|-------|----------|-------|-------|--------|-------|-------|-------|-------|--------|---------|-------|
| 1         | 10 E  | 7.4E     | 19 E  | 19    | 24     | 575   | 37    | 11    | 13    | 7.0    | 7.1     | 24 E  |
| 2         | 9.6E  | 7.0E     | 19 E  | 19    | 17     | 1,020 | 34    | 13    | 10    | 6.0    | 9.2     | 20 E  |
| 3         | 9.0E  | 5.8E     | 18 E  | 19    | 15     | 820   | 32    | 15    | 9.3   | 5.2    | 8.3     | 20 E  |
| 4         | 8.8E  | 5.0E     | 20 E  | 16    | 14     | 317   | 31    | 14    | 9.2   | 4.6    | 9.9     | 26 E  |
| 5         | 8.2E  | 7.2E     | 15 E  | 15    | 12     | 188   | 27    | 20    | 8.6   | 4.2    | 9.9     | 20 E  |
| 6         | 8.0E  | 8.0E     | 12 E  | 14    | 11     | 140   | 26    | 25    | 7.9   | 3.9    | 9.9     | 19 E  |
| 7         | 7.0E  | 9.8E     | 11 E  | 14    | 10     | 114   | 25    | 36    | 7.5   | 4.5    | 11      | 20 E  |
| 8         | 8.0E  | 12 E     | 8.2E  | 14    | 135    | 90    | 23    | 62    | 10    | 4.6    | 10      | 20 E  |
| 9         | 9.6E  | 16 E     | 8.2E  | 14    | 1,370  | 78    | 23    | 56    | 9.4   | 4.5    | 9.4     | 19 E  |
| 10        | 11 E  | 19 E     | 9.8E  | 14    | 3,780  | 69    | 26    | 32    | 7.3   | 4.6    | 9.2     | 19 E  |
| 11        | 11 E  | 20 E     | 12 E  | 14    | 3,510  | 63    | 22    | 22    | 6.4   | 3.4    | 9.1     | 18 E  |
| 12        | 12 E  | 19 E     | 13 E  | 14    | 1,820  | 81    | 21    | 18    | 6.0   | 2.3    | 9.1     | 17 E  |
| 13        | 14 E  | 20 E     | 15 E  | 13    | 352    | 84    | 20    | 15    | 6.0   | 2.5    | 9.2     | 17 E  |
| 14        | 16 E  | 21 E     | 17    | 14E   | 372    | 59    | 19    | 13    | 6.0   | 2.3    | 9.2     | 18 E  |
| 15        | 14 E  | 19 E     | 15    | 16    | 241    | 60    | 18    | 12    | 10    | 1.8    | 9.6     | 18 E  |
| 16        | 16 E  | 17 E     | 14    | 18    | 189    | 51    | 20    | 18    | 17    | 2.4    | 128     | 17 E  |
| 17        | 15 E  | 18 E     | 14    | 19    | 157    | 49    | 17    | 23    | 12    | 3.1    | 667     | 11 E  |
| 18        | 14 E  | 19 E     | 14    | 17    | 130    | 45    | 16    | 112   | 11    | 1.7    | 1,190   | 9.2E  |
| 19        | 10 E  | 16       | 14    | 15    | 113    | 43    | 14    | 106   | 32    | 3.7    | 981     | 10 E  |
| 20        | 13 E  | 26       | 14    | 15    | 84     | 42    | 32    | 54    | 110   | 6.5    | 415     | 12 E  |
| 21        | 17 E  | 28       | 14    | 13    | 67     | 41    | 113   | 33    | 61    | 5.6    | 225     | 10 E  |
| 22        | 16 E  | 27       | 14    | 13    | 57     | 152   | 51    | 24    | 74    | 5.2    | 127     | 7.6E  |
| 23        | 15 E  | 25       | 14    | 13    | 71     | 112   | 33    | 19    | 51    | 6.7    | 89      | 7.0E  |
| 24        | 16 E  | 23 E     | 15    | 12    | 62     | 101   | 33    | 21    | 27    | 6.8    | 60 E    | 6.8E  |
| 25        | 15 E  | 22 E     | 16 E  | 12    | 220    | 114   | 29    | 44    | 18    | 5.7    | 24 E    | 7.8E  |
| 26        | 14 E  | 21 E     | 13 E  | 11    | 355    | 102   | 23    | 34    | 15    | 7.9    | 11 E    | 8.6E  |
| 27        | 13 E  | 19 E     | 11 E  | 12    | 1,990  | 93    | 20    | 25    | 12    | 7.1    | 9.0E    | 8.6E  |
| 28        | 13 E  | 19 E     | 13 E  | 12    | 2,340  | 63    | 17    | 24    | 11    | 6.9    | 18 E    | 8.0E  |
| 29        | 12 E  | 18 E     | 16 E  | 18    | 3,160  | 47    | 16    | 19    | 9.3   | 9.4    | 21 E    | 9.4E  |
| 30        | 11 E  | -----    | 19 E  | 26    | 1,320  | 40    | 14    | 14    | 7.8   | 6.6    | 20 E    | 10 E  |
| 31        | 10 E  | -----    | 19    | ----- | 408    | ----- | 12    | 16    | ----- | 6.1    | -----   | 10 E  |
| TOTAL     | 376.2 | 494.2    | 446.2 | 455   | 22,406 | 4,853 | 844   | 950   | 594.7 | 152.8  | 4,125.1 | 448.0 |
| MEAN      | 12.1  | 17.0     | 14.4  | 15.2  | 723    | 162   | 27.2  | 30.6  | 19.8  | 4.93   | 138     | 14.5  |
| MAX       | 17    | 28       | 20    | 26    | 3,780  | 1,020 | 113   | 112   | 110   | 9.4    | 1,190   | 26    |
| MIN       | 7.0   | 5.0      | 8.2   | 11    | 10     | 40    | 12    | 11    | 6.0   | 1.7    | 7.1     | 6.8   |
| AC-FT     | 746   | 980      | 885   | 902   | 44,440 | 9,630 | 1,670 | 1,880 | 1,180 | 303    | 8,180   | 889   |
| YEAR 1996 | TOTAL | 36,145.2 | MEAN  | 98.8  | MAX    | 3,780 | MIN   | 1.7   | AC-FT | 71,690 |         |       |

## BIG BLUE RIVER BASIN

## BIG BLUE RIVER at Beatrice, 06881500 - 1996

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 directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 1,219.90 feet above mean sea level.

PERIOD OF RECORD.--1910 - 1915, (Month discharge only for some periods, published in WSP 1310). 1954, 1960 - 1965, 1967 - 1969, 1971 - 1974 (discharge measurements only), 1974 - present. Gage height records collected 1905 - 1910, 1916 - 1974, are in reports of U.S. Weather Bureau.

REMARKS.--Records published by U. S. Geological Survey up to Oct. 1, 1994.  
E indicates estimated daily discharge. Estimated records January 1-March 13, March 20-22, March 25-28, November 21-December 5, December 17-31. Records good, except estimated records poor.

EXTREMES FOR PERIOD OF RECORD.--Peak discharge 55,100 cubic feet per second June 14, 1984, gage height 31.27 feet; minimum daily discharge 20 cubic feet per second August 15, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge 10,800 cubic feet per second May 30, gage height 18.15 feet; minimum daily discharge 96 cubic feet per second estimated February 4.

## DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN    | FEB     | MAR    | APR    | MAY     | JUN     | JUL    | AUG    | SEP    | OCT     | NOV    | DEC    |
|-----------|--------|---------|--------|--------|---------|---------|--------|--------|--------|---------|--------|--------|
| 1         | 240E   | 150E    | 170E   | 354    | 422     | 9,480   | 789    | 558    | 503    | 269     | 227    | 500E   |
| 2         | 240E   | 125E    | 175E   | 342    | 456     | 5,900   | 682    | 503    | 425    | 256     | 228    | 430E   |
| 3         | 230E   | 100E    | 180E   | 359    | 453     | 5,12C   | 620    | 374    | 373    | 249     | 217    | 410E   |
| 4         | 220E   | 96E     | 185E   | 374    | 426     | 3,780   | 558    | 355    | 323    | 247     | 233    | 410E   |
| 5         | 185E   | 114E    | 195E   | 394    | 388     | 2,660   | 526    | 433    | 300    | 234     | 229    | 410E   |
| 6         | 160E   | 120E    | 195E   | 388    | 375     | 2,110   | 496    | 493    | 290    | 233     | 235    | 420    |
| 7         | 150E   | 155E    | 180E   | 361    | 387     | 1,830   | 427    | 567    | 293    | 470     | 233    | 406    |
| 8         | 145E   | 180E    | 180E   | 332    | 893     | 1,500   | 426    | 556    | 413    | 368     | 235    | 373    |
| 9         | 175E   | 215E    | 195E   | 309    | 6,580   | 1,260   | 419    | 880    | 412    | 267     | 229    | 366    |
| 10        | 200E   | 300E    | 215E   | 297    | 6,020   | 1,100   | 418    | 1,040  | 322    | 247     | 244    | 360    |
| 11        | 215E   | 350E    | 250E   | 278    | 7,490   | 949     | 408    | 862    | 279    | 248     | 242    | 370    |
| 12        | 235E   | 400E    | 260E   | 277    | 8,380   | 859     | 401    | 575    | 265    | 234     | 225    | 360    |
| 13        | 250E   | 520E    | 280E   | 283    | 4,500   | 936     | 502    | 457    | 277    | 222     | 232    | 357    |
| 14        | 270E   | 580E    | 304    | 326    | 2,500   | 1,000   | 536    | 399    | 269    | 216     | 239    | 366    |
| 15        | 260E   | 380E    | 295    | 330    | 2,130   | 915     | 464    | 355    | 275    | 221     | 232    | 355    |
| 16        | 260E   | 330E    | 298    | 325    | 2,450   | 882     | 401    | 1,150  | 332    | 218     | 2,740  | 349    |
| 17        | 205E   | 310E    | 293    | 316    | 1,970   | 799     | 356    | 2,090  | 472    | 222     | 6,530  | 340E   |
| 18        | 150E   | 320E    | 272    | 332    | 1,900   | 856     | 312    | 946    | 313    | 211     | 3,950  | 310E   |
| 19        | 125E   | 350E    | 264    | 356    | 2,010   | 798     | 308    | 1,400  | 320    | 207     | 3,250  | 320E   |
| 20        | 140E   | 360E    | 240E   | 360    | 1,910   | 695     | 454    | 2,120  | 943    | 206     | 2,590  | 380E   |
| 21        | 155E   | 350E    | 260E   | 352    | 1,580   | 676     | 865    | 1,130  | 1,100  | 215     | 1,900E | 420E   |
| 22        | 200E   | 310E    | 250E   | 338    | 1,260   | 684     | 1,100  | 2,740  | 575    | 237     | 1,350E | 430E   |
| 23        | 225E   | 280E    | 256    | 334    | 6,460   | 1,650   | 1,080  | 1,500  | 491    | 234     | 1,000E | 400E   |
| 24        | 230E   | 240E    | 270    | 330    | 3,670   | 3,150   | 883    | 2,040  | 454    | 238     | 720E   | 280E   |
| 25        | 230E   | 220E    | 260E   | 330    | 3,180   | 4,030   | 740    | 1,470  | 494    | 231     | 580E   | 220E   |
| 26        | 225E   | 215E    | 235E   | 320    | 3,600   | 3,090   | 659    | 837    | 654    | 222     | 500E   | 245E   |
| 27        | 220E   | 215E    | 220E   | 316    | 7,900   | 2,000   | 591    | 651    | 531    | 233     | 420E   | 300E   |
| 28        | 195E   | 190E    | 250E   | 335    | 9,430   | 1,550   | 500    | 626    | 402    | 227     | 500E   | 320E   |
| 29        | 180E   | 170E    | 281    | 393    | 10,100  | 1,240   | 426    | 610    | 336    | 255     | 540E   | 340E   |
| 30        | 170E   | -----   | 324    | 419    | 10,400  | 926     | 401    | 510    | 290    | 249     | 520E   | 340E   |
| 31        | 155E   | -----   | 339    | -----  | 10,300  | -----   | 491    | 506    | -----  | 250     | -----  | 350E   |
| TOTAL     | 6,240  | 7,645   | 7,571  | 10,160 | 119,520 | 62,425  | 17,239 | 28,733 | 12,746 | 7,636   | 30,570 | 11,239 |
| MEAN      | 201    | 264     | 244    | 339    | 3,855   | 2,081   | 556    | 927    | 425    | 246     | 1,019  | 363    |
| MAX       | 270    | 580     | 339    | 419    | 10,400  | 9,480   | 1,100  | 2,740  | 1,100  | 470     | 6,530  | 500    |
| MIN       | 125    | 96      | 170    | 277    | 375     | 676     | 308    | 355    | 269    | 206     | 217    | 220    |
| AC-FT     | 12,380 | 15,160  | 15,020 | 20,150 | 237,100 | 123,800 | 34,190 | 56,990 | 25,280 | 15,150  | 60,640 | 22,290 |
| YEAR 1996 | TOTAL  | 321,724 | MEAN   | 879    | MAX     | 10,400  | MIN    | 96     | AC-FT  | 638,100 |        |        |

# LITTLE BLUE RIVER BASIN

**BIG SANDY CREEK at Alexandria, 06883940 - 1996**

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

DRAINAGE AREA.--607 square miles.

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

PERIOD OF RECORD.--1979 - present

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

E indicates estimated daily discharge. Estimated daily discharge January 6-8, 15, 18-20, February 1-21, 29, March 1, 6-8, December 18, 22-29. Records good, except estimated records 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 4,890 cubic feet per second May 27, gage height 12.75 feet; minimum daily discharge 2.4 cubic feet per second September 11-12.

DAILY DISCHARGE IN CUBIC FEET PER SECOND FOR 1996

| Day       | JAN   | FEB      | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP     | OCT    | NOV    | DEC   |
|-----------|-------|----------|-------|-------|--------|-------|-------|-------|---------|--------|--------|-------|
| 1         | 23    | 17E      | 20E   | 22    | 22     | 630   | 30    | 1,020 | 35      | 15     | 23     | 38    |
| 2         | 23    | 13E      | 23    | 20    | 22     | 464   | 27    | 369   | 26      | 15     | 23     | 36    |
| 3         | 23    | 12E      | 22    | 21    | 22     | 247   | 25    | 145   | 21      | 15     | 25     | 34    |
| 4         | 23    | 13E      | 25    | 21    | 22     | 146   | 26    | 80    | 15      | 15     | 26     | 33    |
| 5         | 23    | 17E      | 14    | 22    | 21     | 110   | 25    | 618   | 20      | 13     | 25     | 31    |
| 6         | 23E   | 22E      | 13E   | 21    | 23     | 67    | 24    | 685   | 18      | 22     | 24     | 31    |
| 7         | 21E   | 22E      | 13E   | 20    | 23     | 51    | 27    | 383   | 12      | 18     | 24     | 29    |
| 8         | 22E   | 23E      | 15E   | 20    | 22     | 42    | 36    | 207   | 6.1     | 18     | 26     | 29    |
| 9         | 24    | 22E      | 17    | 20    | 38     | 39    | 115   | 127   | 4.3     | 15     | 26     | 30    |
| 10        | 25    | 22E      | 19    | 20    | 57     | 35    | 95    | 95    | 3.1     | 15     | 27     | 29    |
| 11        | 25    | 22E      | 19    | 21    | 57     | 32    | 57    | 68    | 2.4     | 15     | 26     | 29    |
| 12        | 25    | 23E      | 19    | 23    | 48     | 30    | 37    | 49    | 2.4     | 14     | 24     | 29    |
| 13        | 24    | 22E      | 20    | 23    | 39     | 28    | 35    | 38    | 2.8     | 15     | 26     | 28    |
| 14        | 24    | 23E      | 21    | 27    | 39     | 31    | 146   | 36    | 2.9     | 15     | 26     | 29    |
| 15        | 26E   | 23E      | 20    | 24    | 34     | 30    | 110   | 35    | 24      | 16     | 27     | 28    |
| 16        | 24    | 22E      | 21    | 23    | 28     | 35    | 55    | 44    | 40      | 17     | 1,140  | 29    |
| 17        | 24    | 22E      | 20    | 23    | 26     | 33    | 36    | 39    | 14      | 19     | 2,070  | 31    |
| 18        | 20E   | 22E      | 21    | 22    | 25     | 26    | 30    | 31    | 12      | 20     | 1,330  | 28E   |
| 19        | 13E   | 22E      | 23    | 23    | 25     | 23    | 32    | 31    | 268     | 19     | 582    | 30    |
| 20        | 17E   | 22E      | 21    | 23    | 27     | 21    | 49    | 31    | 342     | 20     | 388    | 31    |
| 21        | 20    | 20E      | 21    | 23    | 27     | 20    | 73    | 29    | 102     | 20     | 315    | 29    |
| 22        | 21    | 19       | 22    | 23    | 27     | 78    | 70    | 60    | 61      | 21     | 223    | 28E   |
| 23        | 21    | 18       | 21    | 22    | 2,110  | 68    | 48    | 69    | 44      | 20     | 159    | 24E   |
| 24        | 21    | 18       | 22    | 22    | 485    | 35    | 32    | 28    | 36      | 20     | 90     | 24E   |
| 25        | 21    | 18       | 22    | 22    | 97     | 32    | 28    | 19    | 32      | 20     | 53     | 23E   |
| 26        | 24    | 20       | 20    | 23    | 775    | 44    | 27    | 14    | 32      | 20     | 54     | 24E   |
| 27        | 22    | 22       | 20    | 24    | 2,720  | 67    | 26    | 34    | 28      | 21     | 48     | 25E   |
| 28        | 21    | 21       | 21    | 26    | 551    | 59    | 27    | 34    | 23      | 21     | 39     | 25E   |
| 29        | 22    | 18E      | 22    | 27    | 277    | 45    | 29    | 56    | 19      | 22     | 41     | 27E   |
| 30        | 23    | -----    | 25    | 24    | 189    | 36    | 30    | 52    | 17      | 24     | 46     | 28    |
| 31        | 20    | -----    | 23    | ----- | 220    | ----- | 29    | 37    | -----   | 24     | -----  | 29    |
| TOTAL     | 688   | 580      | 625   | 675   | 8,098  | 2,604 | 1,436 | 4,563 | 1,265.0 | 564    | 6,956  | 898   |
| MEAN      | 22.2  | 20.0     | 20.2  | 22.5  | 261    | 86.8  | 46.3  | 147   | 42.2    | 18.2   | 232    | 29.0  |
| MAX       | 26    | 23       | 25    | 27    | 2,720  | 630   | 146   | 1,020 | 342     | 24     | 2,070  | 38    |
| MIN       | 13    | 12       | 13    | 20    | 21     | 20    | 24    | 14    | 2.4     | 13     | 23     | 23    |
| AC-FT     | 1,360 | 1,150    | 1,240 | 1,340 | 16,060 | 5,170 | 2,850 | 9,050 | 2,510   | 1,120  | 13,800 | 1,780 |
| YEAR 1996 | TOTAL | 28,952.0 | MEAN  | 79.1  | MAX    | 2,720 | MIN   | 2.4   | AC-FT   | 57,430 |        |       |





**REPUBLICAN RIVER BASIN**

**1996**

**WATER YEAR RECORDS FOR  
REPUBLICAN RIVER COMPACT**

# REPUBLICAN RIVER BASIN

**SWANSON LAKE near Trenton, 06829000 - 1996**

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 Oct. 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 112,500 acre-feet June 23 & 24, elevation 2,752.05 feet;  
 minimum contents 80,730 acre-feet September 6, elevation 2,745.13 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 1995 TO SEP 1996

| Day           | OCT    | NOV    | DEC    | JAN    | FEB    | MAR     | APR     | MAY     | JUN     | JUL     | AUG    | SEP    |
|---------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
| 1             | 74,390 | 74,590 | 78,020 | 81,220 | 85,080 | 90,400  | 95,840  | 100,300 | 108,500 | 110,200 | 92,280 | 82,210 |
| 2             | 74,310 | 74,670 | 78,180 | 81,330 | 85,160 | 90,440  | 96,020  | 100,500 | 108,900 | 109,700 | 91,930 | 81,980 |
| 3             | 74,270 | 74,670 | 78,260 | 81,410 | 85,240 | 90,660  | 96,120  | 100,600 | 109,200 | 108,900 | 91,580 | 81,750 |
| 4             | 74,310 | 74,710 | 78,460 | 81,520 | 85,330 | 90,790  | 96,250  | 100,700 | 109,600 | 108,100 | 91,230 | 81,480 |
| 5             | 74,310 | 74,830 | 78,460 | 81,640 | 85,370 | 90,920  | 96,430  | 100,800 | 109,900 | 107,100 | 90,920 | 81,180 |
| 6             | 74,160 | 74,900 | 78,580 | 81,790 | 85,460 | 91,100  | 96,610  | 100,900 | 110,300 | 106,200 | 90,610 | 82,880 |
| 7             | 74,120 | 74,980 | 78,710 | 81,830 | 85,500 | 91,180  | 96,700  | 101,100 | 110,400 | 105,200 | 90,480 | 83,060 |
| 8             | 74,120 | 75,100 | 78,790 | 81,940 | 85,580 | 91,270  | 96,930  | 101,400 | 110,500 | 104,300 | 90,140 | 83,100 |
| 9             | 74,080 | 75,220 | 78,830 | 81,980 | 85,750 | 91,490  | 97,060  | 101,500 | 110,500 | 103,400 | 89,700 | 83,150 |
| 10            | 74,040 | 75,380 | 78,830 | 82,210 | 85,960 | 91,710  | 97,200  | 101,700 | 110,700 | 102,400 | 89,270 | 83,150 |
| 11            | 74,040 | 75,500 | 78,830 | 82,300 | 86,130 | 91,880  | 97,380  | 101,800 | 110,800 | 101,500 | 88,790 | 83,100 |
| 12            | 74,040 | 75,620 | 78,910 | 82,480 | 86,430 | 92,060  | 97,470  | 101,900 | 111,000 | 100,700 | 88,270 | 83,060 |
| 13            | 74,000 | 75,780 | 79,070 | 82,700 | 86,730 | 92,190  | 97,520  | 102,100 | 111,100 | 100,000 | 87,800 | 83,060 |
| 14            | 73,920 | 75,860 | 79,150 | 82,920 | 87,120 | 92,460  | 97,840  | 102,200 | 111,600 | 99,710  | 87,200 | 82,920 |
| 15            | 73,880 | 76,010 | 79,310 | 83,200 | 87,460 | 92,640  | 98,020  | 102,300 | 111,800 | 98,980  | 86,730 | 82,920 |
| 16            | 73,840 | 76,130 | 79,440 | 83,380 | 87,630 | 92,860  | 98,150  | 102,400 | 112,000 | 98,660  | 86,470 | 82,920 |
| 17            | 73,760 | 76,250 | 79,680 | 83,780 | 87,890 | 93,170  | 98,380  | 102,600 | 112,100 | 98,020  | 86,010 | 82,920 |
| 18            | 73,760 | 76,410 | 79,790 | 83,830 | 88,230 | 93,430  | 98,610  | 102,600 | 112,200 | 97,380  | 85,540 | 83,960 |
| 19            | 73,680 | 76,530 | 79,900 | 83,830 | 88,490 | 93,570  | 98,790  | 102,600 | 112,200 | 96,750  | 85,080 | 84,420 |
| 20            | 73,610 | 76,650 | 80,050 | 83,830 | 88,660 | 93,740  | 98,840  | 102,600 | 112,200 | 96,610  | 84,600 | 84,780 |
| 21            | 73,570 | 76,810 | 80,130 | 83,870 | 88,880 | 93,970  | 98,930  | 102,600 | 112,200 | 95,980  | 84,190 | 85,710 |
| 22            | 73,530 | 76,890 | 80,200 | 84,010 | 89,180 | 94,100  | 98,980  | 102,600 | 112,400 | 95,440  | 84,100 | 86,220 |
| 23            | 74,120 | 77,050 | 80,320 | 84,140 | 89,400 | 94,280  | 99,110  | 102,800 | 112,500 | 94,860  | 84,050 | 86,690 |
| 24            | 74,120 | 77,170 | 80,350 | 84,240 | 89,440 | 94,630  | 99,250  | 102,900 | 112,500 | 94,460  | 83,870 | 86,940 |
| 25            | 74,120 | 77,290 | 80,470 | 84,320 | 89,610 | 94,590  | 99,570  | 103,300 | 112,400 | 94,100  | 83,740 | 87,540 |
| 26            | 74,190 | 77,410 | 80,580 | 84,510 | 89,790 | 94,720  | 99,620  | 104,300 | 112,200 | 93,830  | 83,470 | 87,710 |
| 27            | 74,310 | 77,490 | 80,650 | 84,600 | 89,920 | 94,860  | 99,760  | 105,300 | 112,100 | 93,610  | 83,100 | 87,890 |
| 28            | 74,310 | 77,620 | 80,770 | 84,780 | 90,000 | 95,080  | 99,940  | 105,900 | 111,900 | 93,210  | 82,660 | 88,060 |
| 29            | 74,350 | 77,740 | 80,880 | 84,820 | 90,140 | 95,310  | 100,000 | 106,500 | 111,300 | 93,030  | 82,340 | 88,270 |
| 30            | 74,390 | 77,900 | 80,990 | 84,860 | -----  | 95,530  | 100,200 | 106,900 | 110,900 | 92,720  | 82,520 | 88,400 |
| 31            | 74,470 | -----  | 81,110 | 84,910 | -----  | 95,710  | -----   | 107,800 | -----   | 92,370  | 82,430 | -----  |
| MAX           | 74,470 | 77,900 | 81,110 | 84,910 | 90,140 | 95,710  | 100,200 | 107,800 | 112,500 | 110,200 | 92,280 | 88,400 |
| MIN           | 73,530 | 74,590 | 78,020 | 81,220 | 85,080 | 90,400  | 95,840  | 100,300 | 108,500 | 92,370  | 82,340 | 81,180 |
| CHANGE        | 80.0   | 3,430  | 3,210  | 3,800  | 5,230  | 5,570   | 4,490   | 7,600   | 3,100   | -18,530 | -9,940 | 5,970  |
| CAL YEAR 1995 |        |        | MEAN   | 95,150 | MAX    | 126,200 | MIN     | 73,530  |         |         |        |        |
| WTR YEAR 1996 |        |        | MEAN   | 89,646 | MAX    | 112,500 | MIN     | 73,530  |         |         |        |        |

# REPUBLICAN RIVER BASIN

## FRENCHMAN CREEK near Imperial, 06831500 - 1996

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.

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 190 cubic feet per second June 1, gage height 2.52 feet; minimum daily discharge 16 cubic feet per second October 1-4, December 9.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1995 TO SEP 1996

| Day                 | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL    | AUG   | SEP   |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1                   | 16    | 23    | 22    | 23    | 24    | 27    | 27    | 26    | 119   | 23     | 31    | 23    |
| 2                   | 16    | 23    | 22    | 22    | 23    | 26    | 26    | 27    | 95    | 21     | 28    | 22    |
| 3                   | 16    | 23    | 22    | 24    | 23    | 25    | 26    | 26    | 54    | 20     | 25    | 22    |
| 4                   | 16    | 23    | 22    | 24    | 23    | 25    | 25    | 26    | 40    | 21     | 24    | 21    |
| 5                   | 19    | 23    | 22    | 22    | 21    | 24    | 26    | 25    | 34    | 21     | 27    | 20    |
| 6                   | 19    | 23    | 21    | 24    | 26    | 22    | 26    | 24    | 30    | 20     | 25    | 20    |
| 7                   | 17    | 23    | 22    | 23    | 29    | 24    | 25    | 25    | 28    | 20     | 25    | 21    |
| 8                   | 18    | 23    | 21    | 26    | 28    | 24    | 25    | 25    | 27    | 19     | 24    | 21    |
| 9                   | 18    | 23    | 16    | 27    | 28    | 25    | 24    | 25    | 27    | 20     | 23    | 21    |
| 10                  | 17    | 22    | 25    | 26    | 29    | 25    | 24    | 26    | 26    | 24     | 23    | 20    |
| 11                  | 17    | 22    | 24    | 27    | 27    | 25    | 23    | 27    | 27    | 23     | 22    | 19    |
| 12                  | 17    | 22    | 23    | 27    | 28    | 25    | 24    | 25    | 26    | 22     | 21    | 18    |
| 13                  | 17    | 23    | 23    | 27    | 28    | 26    | 24    | 25    | 26    | 21     | 20    | 18    |
| 14                  | 17    | 23    | 23    | 27    | 27    | 26    | 29    | 24    | 26    | 21     | 20    | 19    |
| 15                  | 17    | 23    | 22    | 27    | 27    | 26    | 29    | 24    | 28    | 21     | 20    | 21    |
| 16                  | 17    | 22    | 22    | 28    | 26    | 26    | 28    | 23    | 32    | 23     | 21    | 22    |
| 17                  | 17    | 22    | 23    | 24    | 29    | 26    | 27    | 21    | 29    | 22     | 20    | 21    |
| 18                  | 17    | 21    | 23    | 28    | 27    | 27    | 26    | 20    | 30    | 21     | 20    | 24    |
| 19                  | 17    | 21    | 23    | 25    | 27    | 26    | 26    | 20    | 29    | 34     | 21    | 25    |
| 20                  | 17    | 21    | 23    | 25    | 27    | 26    | 25    | 19    | 27    | 28     | 21    | 23    |
| 21                  | 17    | 21    | 23    | 28    | 27    | 26    | 25    | 19    | 27    | 24     | 20    | 23    |
| 22                  | 18    | 21    | 23    | 28    | 27    | 25    | 24    | 20    | 27    | 23     | 22    | 26    |
| 23                  | 24    | 21    | 22    | 26    | 27    | 25    | 25    | 22    | 27    | 21     | 20    | 29    |
| 24                  | 25    | 21    | 22    | 26    | 25    | 25    | 24    | 23    | 26    | 23     | 20    | 36    |
| 25                  | 23    | 21    | 23    | 27    | 26    | 18    | 25    | 25    | 25    | 25     | 20    | 73    |
| 26                  | 23    | 21    | 23    | 22    | 26    | 27    | 22    | 40    | 24    | 24     | 19    | 69    |
| 27                  | 23    | 22    | 23    | 28    | 25    | 32    | 24    | 55    | 23    | 24     | 19    | 57    |
| 28                  | 23    | 22    | 23    | 27    | 23    | 29    | 29    | 49    | 24    | 23     | 19    | 47    |
| 29                  | 23    | 22    | 23    | 24    | 24    | 29    | 29    | 45    | 24    | 25     | 21    | 36    |
| 30                  | 22    | 22    | 22    | 24    | ----- | 29    | 27    | 44    | 23    | 23     | 26    | 48    |
| 31                  | 22    | ----- | 24    | 24    | ----- | 27    | ----- | 60    | ----- | 24     | 24    | ----- |
| TOTAL               | 585   | 663   | 695   | 790   | 757   | 798   | 769   | 885   | 1,010 | 704    | 691   | 865   |
| MEAN                | 18.9  | 22.1  | 22.4  | 25.5  | 26.1  | 25.7  | 25.6  | 28.5  | 33.7  | 22.7   | 22.3  | 28.8  |
| MAX                 | 25    | 23    | 25    | 28    | 29    | 32    | 29    | 60    | 119   | 34     | 31    | 73    |
| MIN                 | 16    | 21    | 16    | 22    | 21    | 18    | 22    | 19    | 23    | 19     | 19    | 18    |
| AC-FT               | 1,160 | 1,320 | 1,380 | 1,570 | 1,500 | 1,580 | 1,530 | 1,760 | 2,000 | 1,400  | 1,370 | 1,720 |
| CAL YEAR 1995 TOTAL |       | 9,212 | MEAN  | 25.2  | MAX   | 221   | MIN   | 13    | AC-FT | 18,270 |       |       |
| WTR YEAR 1996 TOTAL |       | 9,212 | MEAN  | 25.2  | MAX   | 119   | MIN   | 16    | AC-FT | 18,270 |       |       |

# REPUBLICAN RIVER BASIN

## STINKING WATER CREEK near Palisade, 06835000 - 1996

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

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

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

PERIOD OF RECORD.--1949 - present

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

E indicates estimated daily discharge. Estimated records December 8-13, 25-31, January 2-10, 18-February 5, 9-19, 28-March 1, 7-9, 18-21, 25-26. Records good, except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 169 cubic feet per second June 1, gage height 5.37 feet; minimum daily discharge 18 cubic feet per second October 3-5, July 13, 15, 20, 23-24.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1995 TO SEP 1996

| Day                 | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL    | AUG   | SEP   |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1                   | 19    | 26    | 25    | 24    | 20E   | 26E   | 31    | 31    | 135   | 21     | 28    | 26    |
| 2                   | 19    | 26    | 25    | 24E   | 20E   | 27    | 30    | 30    | 81    | 21     | 35    | 25    |
| 3                   | 18    | 25    | 25    | 24E   | 21E   | 29    | 28    | 29    | 69    | 21     | 27    | 25    |
| 4                   | 18    | 25    | 24    | 24E   | 23E   | 28    | 28    | 28    | 59    | 20     | 25    | 24    |
| 5                   | 18    | 25    | 25    | 24E   | 25E   | 28    | 27    | 28    | 47    | 19     | 40    | 23    |
| 6                   | 19    | 25    | 24    | 23E   | 26    | 28    | 27    | 27    | 41    | 19     | 32    | 23    |
| 7                   | 21    | 25    | 24    | 23E   | 27    | 26E   | 28    | 27    | 37    | 19     | 29    | 45    |
| 8                   | 22    | 25    | 22E   | 24E   | 27    | 25E   | 28    | 27    | 35    | 19     | 24    | 45    |
| 9                   | 21    | 25    | 20E   | 25E   | 27E   | 26E   | 28    | 27    | 32    | 19     | 22    | 25    |
| 10                  | 20    | 25    | 20E   | 26E   | 27E   | 26    | 27    | 27    | 30    | 19     | 22    | 24    |
| 11                  | 20    | 25    | 21E   | 28    | 26E   | 29    | 27    | 26    | 29    | 19     | 22    | 28    |
| 12                  | 19    | 25    | 22E   | 27    | 25E   | 29    | 27    | 26    | 28    | 19     | 21    | 25    |
| 13                  | 19    | 25    | 23E   | 27    | 27E   | 29    | 26    | 26    | 39    | 18     | 21    | 23    |
| 14                  | 19    | 26    | 24    | 27    | 26E   | 29    | 27    | 26    | 49    | 19     | 21    | 22    |
| 15                  | 19    | 26    | 25    | 27    | 25E   | 28    | 28    | 26    | 36    | 18     | 22    | 22    |
| 16                  | 20    | 26    | 25    | 27    | 24E   | 29    | 30    | 25    | 35    | 20     | 23    | 23    |
| 17                  | 20    | 25    | 25    | 27    | 25E   | 29    | 31    | 24    | 39    | 19     | 24    | 24    |
| 18                  | 21    | 25    | 25    | 26E   | 27E   | 28E   | 29    | 24    | 38    | 19     | 24    | 27    |
| 19                  | 21    | 25    | 25    | 24E   | 29E   | 27E   | 29    | 23    | 41    | 19     | 23    | 26    |
| 20                  | 20    | 25    | 25    | 25E   | 30    | 26E   | 27    | 22    | 43    | 18     | 24    | 29    |
| 21                  | 20    | 25    | 24    | 26E   | 31    | 27E   | 26    | 21    | 33    | 19     | 23    | 30    |
| 22                  | 20    | 25    | 23    | 27E   | 30    | 29    | 26    | 21    | 30    | 19     | 25    | 28    |
| 23                  | 24    | 23    | 24    | 26E   | 29    | 30    | 26    | 22    | 29    | 18     | 43    | 26    |
| 24                  | 25    | 25    | 26    | 24E   | 28    | 29    | 27    | 22    | 27    | 18     | 24    | 25    |
| 25                  | 29    | 26    | 25E   | 22E   | 28    | 28E   | 26    | 22    | 26    | 19     | 22    | 35    |
| 26                  | 30    | 24    | 24E   | 21E   | 27    | 27E   | 26    | 33    | 25    | 23     | 21    | 45    |
| 27                  | 29    | 24    | 23E   | 22E   | 27    | 28    | 25    | 55    | 24    | 23     | 20    | 45    |
| 28                  | 30    | 24    | 22E   | 20E   | 26E   | 30    | 27    | 71    | 23    | 23     | 19    | 37    |
| 29                  | 29    | 25    | 23E   | 21E   | 25E   | 32    | 31    | 72    | 22    | 21     | 19    | 31    |
| 30                  | 27    | 25    | 24E   | 22E   | ----- | 34    | 32    | 60    | 22    | 20     | 20    | 29    |
| 31                  | 26    | ----- | 23E   | 21E   | ----- | 33    | ----- | 120   | ----- | 20     | 24    | ----- |
| TOTAL               | 682   | 751   | 735   | 758   | 758   | 879   | 835   | 1,048 | 1,204 | 608    | 769   | 865   |
| MEAN                | 22.0  | 25.0  | 23.7  | 24.5  | 26.1  | 28.4  | 27.8  | 33.8  | 40.1  | 19.6   | 24.8  | 28.8  |
| MAX                 | 30    | 26    | 26    | 28    | 31    | 34    | 32    | 120   | 135   | 23     | 43    | 45    |
| MIN                 | 18    | 23    | 20    | 20    | 20    | 25    | 25    | 21    | 22    | 18     | 19    | 22    |
| AC-FT               | 1,350 | 1,490 | 1,460 | 1,500 | 1,500 | 1,740 | 1,660 | 2,080 | 2,390 | 1,210  | 1,530 | 1,720 |
| CAL YEAR 1995 TOTAL |       | 9,536 | MEAN  | 26.1  | MAX   | 137   | MIN   | 11    | AC-FT | 18,910 |       |       |
| WTR YEAR 1996 TOTAL |       | 9,892 | MEAN  | 27.0  | MAX   | 135   | MIN   | 18    | AC-FT | 19,620 |       |       |

# REPUBLICAN RIVER BASIN

**RED WILLOW CREEK above Hugh Butler Lake, 06837300 - 1996**

LOCATION.--NE1/4SE1/4 Sec. 13-5-31 W., Hayes County, Lat. 40°24'05", Long. 100°46'45", on the left bank 15 feet upstream from the County road bridge; 7.0 miles upstream from Red Willow Dam; 12 miles northeast of Culbertson and 16 miles north west of McCook.

DRAINAGE AREA.--Approximately 600 square miles; approximately 200 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,588.80 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1960 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1994.  
E indicates estimated daily discharge. Estimated daily discharge November 28, December 7-12, 18-31, January 1-11, January 19-February 19, February 29-March 3, 8-10, 26-27. Records good except estimated records 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 413 cubic feet per second May 31, gage height 9.06 feet; minimum daily discharge 13 cubic feet per second July 5-10, 12-13.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1995 TO SEP 1996

| Day           | OCT   | NOV     | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL    | AUG   | SEP   |
|---------------|-------|---------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1             | 18    | 26      | 21    | 20E   | 15E   | 22E   | 33    | 33    | 78    | 15     | 74    | 19    |
| 2             | 14    | 24      | 21    | 18E   | 14E   | 23E   | 32    | 33    | 48    | 14     | 54    | 19    |
| 3             | 14    | 23      | 21    | 16E   | 16E   | 23E   | 30    | 30    | 41    | 14     | 56    | 18    |
| 4             | 14    | 22      | 22    | 17E   | 17E   | 24    | 29    | 29    | 35    | 14     | 35    | 19    |
| 5             | 14    | 21      | 22    | 17E   | 19E   | 25    | 27    | 28    | 29    | 13     | 54    | 19    |
| 6             | 15    | 21      | 22    | 15E   | 20E   | 26    | 26    | 26    | 150   | 13     | 34    | 18    |
| 7             | 16    | 21      | 22E   | 14E   | 22E   | 24    | 26    | 25    | 67    | 13     | 30    | 18    |
| 8             | 16    | 21      | 21E   | 16E   | 23E   | 23E   | 26    | 25    | 59    | 13     | 26    | 18    |
| 9             | 16    | 21      | 21E   | 18E   | 24E   | 22E   | 26    | 25    | 57    | 13     | 24    | 26    |
| 10            | 16    | 22      | 21E   | 19E   | 25E   | 23E   | 25    | 25    | 44    | 13     | 22    | 40    |
| 11            | 15    | 22      | 22E   | 20E   | 24E   | 24    | 25    | 25    | 32    | 14     | 21    | 42    |
| 12            | 15    | 23      | 22E   | 22    | 23E   | 25    | 25    | 24    | 31    | 13     | 20    | 49    |
| 13            | 15    | 23      | 23    | 23    | 22E   | 28    | 24    | 24    | 28    | 13     | 19    | 31    |
| 14            | 15    | 23      | 21    | 23    | 24E   | 29    | 26    | 23    | 24    | 16     | 19    | 22    |
| 15            | 15    | 23      | 21    | 23    | 25E   | 29    | 28    | 23    | 22    | 16     | 20    | 20    |
| 16            | 15    | 23      | 21    | 22    | 23E   | 29    | 29    | 22    | 28    | 20     | 21    | 19    |
| 17            | 15    | 23      | 20    | 22    | 21E   | 29    | 31    | 21    | 25    | 19     | 20    | 19    |
| 18            | 16    | 23      | 19E   | 22    | 23E   | 30    | 32    | 20    | 24    | 18     | 19    | 85    |
| 19            | 16    | 22      | 19E   | 18E   | 25E   | 30    | 29    | 19    | 24    | 18     | 21    | 249   |
| 20            | 15    | 22      | 19E   | 15E   | 27    | 30    | 27    | 18    | 24    | 19     | 26    | 131   |
| 21            | 16    | 22      | 19E   | 17E   | 28    | 29    | 25    | 17    | 25    | 29     | 24    | 50    |
| 22            | 16    | 21      | 19E   | 18E   | 27    | 28    | 25    | 16    | 22    | 25     | 25    | 39    |
| 23            | 19    | 21      | 19E   | 20E   | 19    | 27    | 23    | 16    | 22    | 22     | 35    | 34    |
| 24            | 22    | 20      | 21E   | 19E   | 24    | 27    | 23    | 17    | 21    | 21     | 48    | 29    |
| 25            | 22    | 21      | 22E   | 18E   | 27    | 26    | 23    | 18    | 20    | 22     | 28    | 30    |
| 26            | 24    | 21      | 24E   | 16E   | 28    | 25E   | 23    | 26    | 19    | 26     | 23    | 32    |
| 27            | 25    | 21      | 24E   | 15E   | 26    | 26E   | 22    | 49    | 18    | 30     | 20    | 29    |
| 28            | 27    | 20E     | 23E   | 16E   | 25    | 28    | 24    | 69    | 17    | 30     | 19    | 29    |
| 29            | 29    | 21      | 23E   | 16E   | 24E   | 30    | 28    | 72    | 16    | 29     | 18    | 27    |
| 30            | 30    | 21      | 22E   | 17E   | ----- | 34    | 31    | 74    | 15    | 38     | 19    | 24    |
| 31            | 28    | -----   | 22E   | 16E   | ----- | 34    | ----- | 194   | ----- | 61     | 20    | ----- |
| TOTAL         | 563   | 658     | 659   | 568   | 660   | 832   | 803   | 1,066 | 1,065 | 634    | 894   | 1,203 |
| MEAN          | 18.2  | 21.9    | 21.3  | 18.3  | 22.8  | 26.8  | 26.8  | 34.4  | 35.5  | 20.5   | 28.8  | 40.1  |
| MAX           | 30    | 26      | 24    | 23    | 28    | 34    | 33    | 194   | 150   | 61     | 74    | 249   |
| MIN           | 14    | 20      | 19    | 14    | 14    | 22    | 22    | 16    | 15    | 13     | 18    | 18    |
| AC-FT         | 1,120 | 1,310   | 1,310 | 1,130 | 1,310 | 1,650 | 1,590 | 2,110 | 2,110 | 1,260  | 1,770 | 2,390 |
| CAL YEAR 1995 | TOTAL | 8,502.3 | MEAN  | 23.3  | MAX   | 64    | MIN   | 7.2   | AC-FT | 16,860 |       |       |
| WTR YEAR 1996 | TOTAL | 9,605.0 | MEAN  | 26.2  | MAX   | 249   | MIN   | 13    | AC-FT | 19,050 |       |       |

# REPUBLICAN RIVER BASIN

**HUGH BUTLER LAKE near McCook, 06837390 - 1996**

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

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

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

PERIOD OF RECORD.--September 1951 - present

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum contents 37,400 acre-feet, June 19, elevation 2,581.57 feet;  
minimum contents 29,900 acre-feet, October 6, elevation 2,576.57 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 1995 TO SEP 1996

| Day           | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1             | 29,950 | 30,340 | 31,050 | 31,540 | 31,780 | 32,490 | 33,350 | 33,990 | 35,960 | 36,790 | 33,840 | 32,820 |
| 2             | 29,950 | 30,350 | 31,070 | 31,520 | 31,790 | 32,510 | 33,410 | 34,030 | 36,010 | 36,610 | 33,870 | 32,770 |
| 3             | 29,950 | 30,350 | 31,070 | 31,550 | 31,810 | 32,520 | 33,420 | 34,050 | 36,040 | 36,430 | 34,170 | 32,720 |
| 4             | 29,940 | 30,360 | 31,120 | 31,550 | 31,830 | 32,570 | 33,380 | 34,060 | 36,090 | 36,230 | 34,220 | 32,670 |
| 5             | 29,910 | 30,400 | 31,090 | 31,550 | 31,830 | 32,580 | 33,410 | 34,080 | 36,120 | 36,070 | 34,230 | 32,580 |
| 6             | 29,900 | 30,450 | 31,090 | 31,550 | 31,860 | 32,610 | 33,460 | 34,100 | 36,790 | 35,880 | 34,220 | 32,630 |
| 7             | 29,920 | 30,460 | 31,070 | 31,550 | 31,880 | 32,610 | 33,480 | 34,110 | 36,880 | 35,680 | 34,130 | 32,610 |
| 8             | 29,940 | 30,490 | 31,050 | 31,550 | 31,890 | 32,610 | 33,530 | 34,170 | 36,970 | 35,470 | 34,020 | 32,600 |
| 9             | 29,950 | 30,540 | 31,040 | 31,550 | 31,920 | 32,640 | 33,530 | 34,230 | 37,060 | 35,300 | 33,910 | 32,610 |
| 10            | 29,970 | 30,540 | 31,050 | 31,550 | 31,980 | 32,670 | 33,590 | 34,200 | 37,130 | 35,130 | 33,790 | 32,680 |
| 11            | 30,010 | 30,540 | 31,080 | 31,560 | 31,950 | 32,700 | 33,640 | 34,220 | 37,180 | 34,970 | 33,710 | 32,720 |
| 12            | 29,990 | 30,600 | 31,110 | 31,560 | 32,010 | 32,730 | 33,560 | 34,230 | 37,240 | 34,890 | 33,620 | 32,740 |
| 13            | 29,980 | 30,610 | 31,170 | 31,560 | 32,070 | 32,790 | 33,550 | 34,260 | 37,260 | 34,830 | 33,550 | 32,760 |
| 14            | 29,950 | 30,670 | 31,190 | 31,560 | 32,110 | 32,770 | 33,610 | 34,340 | 37,270 | 34,720 | 33,460 | 32,760 |
| 15            | 29,980 | 30,680 | 31,210 | 31,580 | 32,120 | 32,800 | 33,640 | 34,370 | 37,320 | 34,650 | 33,420 | 32,770 |
| 16            | 29,990 | 30,730 | 31,250 | 31,580 | 32,140 | 32,850 | 33,670 | 34,450 | 37,320 | 34,620 | 33,440 | 32,790 |
| 17            | 29,990 | 30,750 | 31,270 | 31,590 | 32,200 | 32,910 | 33,760 | 34,450 | 37,350 | 34,600 | 33,380 | 32,800 |
| 18            | 29,990 | 30,780 | 31,270 | 31,590 | 32,240 | 32,940 | 33,760 | 34,480 | 37,370 | 34,570 | 33,290 | 33,470 |
| 19            | 29,950 | 30,810 | 31,250 | 31,610 | 32,320 | 32,950 | 33,770 | 34,450 | 37,340 | 34,540 | 33,250 | 34,000 |
| 20            | 29,920 | 30,820 | 31,270 | 31,620 | 32,330 | 33,010 | 33,760 | 34,400 | 37,320 | 34,450 | 33,160 | 34,280 |
| 21            | 29,920 | 30,820 | 31,280 | 31,650 | 32,360 | 33,040 | 33,770 | 34,390 | 37,340 | 34,390 | 33,100 | 34,370 |
| 22            | 29,970 | 30,850 | 31,310 | 31,660 | 32,380 | 33,050 | 33,760 | 34,450 | 37,320 | 34,260 | 33,130 | 34,450 |
| 23            | 30,100 | 30,840 | 31,320 | 31,690 | 32,390 | 33,110 | 33,800 | 34,400 | 37,320 | 34,110 | 33,110 | 34,490 |
| 24            | 30,120 | 30,880 | 31,320 | 31,710 | 32,390 | 33,110 | 33,840 | 34,420 | 37,270 | 34,000 | 33,110 | 34,480 |
| 25            | 30,140 | 30,940 | 31,350 | 31,720 | 32,400 | 33,130 | 33,850 | 34,480 | 37,230 | 33,930 | 33,110 | 34,600 |
| 26            | 30,210 | 30,980 | 31,380 | 31,730 | 32,400 | 33,130 | 33,800 | 34,800 | 37,180 | 33,900 | 33,110 | 34,580 |
| 27            | 30,230 | 30,920 | 31,390 | 31,750 | 32,460 | 33,160 | 33,800 | 34,910 | 37,130 | 33,880 | 33,050 | 34,570 |
| 28            | 30,240 | 30,910 | 31,390 | 31,760 | 32,460 | 33,190 | 33,900 | 34,980 | 37,080 | 33,850 | 33,000 | 34,580 |
| 29            | 30,270 | 30,970 | 31,420 | 31,750 | 32,460 | 33,230 | 33,880 | 35,140 | 36,980 | 33,840 | 32,940 | 34,650 |
| 30            | 30,280 | 31,040 | 31,460 | 31,750 | -----  | 33,280 | 33,940 | 35,300 | 36,880 | 33,770 | 32,910 | 34,660 |
| 31            | 30,310 | -----  | 31,480 | 31,760 | -----  | 33,320 | -----  | 35,760 | -----  | 33,820 | 32,860 | -----  |
| MAX           | 30,310 | 31,040 | 31,480 | 31,760 | 32,460 | 33,320 | 33,940 | 35,760 | 37,370 | 36,790 | 34,230 | 34,660 |
| MIN           | 29,900 | 30,340 | 31,040 | 31,520 | 31,780 | 32,490 | 33,350 | 33,990 | 35,960 | 33,770 | 32,860 | 32,580 |
| CHANGE        | 390    | 730    | 440    | 280    | 700    | 860    | 620    | 1,820  | 1,120  | -3,060 | -960   | 1,800  |
| CAL YEAR 1995 |        |        | MEAN   | 34,133 | MAX    | 39,820 | MIN    | 29,660 |        |        |        |        |
| WTR YEAR 1996 |        |        | MEAN   | 32,947 | MAX    | 37,370 | MIN    | 29,900 |        |        |        |        |

# REPUBLICAN RIVER BASIN

## MEDICINE CREEK above Harry Strunk Lake, 06841000 - 1996

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

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

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

PERIOD OF RECORD.--1950 - present

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

E indicates estimated daily discharge. Estimated records December 9-17, 25-January 13, 17-February 16, 29-March 3, 7-10. Records good, except estimated records 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 725 cubic feet per second July 26, gage height 12.02 feet; minimum daily discharge 31 cubic feet per second July 6.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1995 TO SEP 1996

| Day           | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL    | AUG   | SEP   |
|---------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1             | 55    | 43     | 47    | 48E   | 41E   | 47E   | 59    | 62    | 149   | 39     | 49    | 44    |
| 2             | 44    | 43     | 48    | 46E   | 40E   | 49E   | 58    | 59    | 97    | 36     | 45    | 44    |
| 3             | 39    | 43     | 48    | 45E   | 40E   | 52E   | 57    | 58    | 73    | 35     | 45    | 44    |
| 4             | 36    | 43     | 47    | 43E   | 40E   | 53    | 55    | 56    | 67    | 35     | 47    | 43    |
| 5             | 35    | 43     | 47    | 42E   | 40E   | 53    | 54    | 55    | 60    | 33     | 47    | 42    |
| 6             | 35    | 43     | 47    | 40E   | 42E   | 53    | 54    | 54    | 63    | 31     | 44    | 41    |
| 7             | 37    | 44     | 47    | 40E   | 44E   | 52E   | 54    | 53    | 130   | 35     | 43    | 43    |
| 8             | 38    | 44     | 45    | 40E   | 46E   | 52E   | 54    | 54    | 78    | 150    | 40    | 53    |
| 9             | 38    | 45     | 42E   | 44E   | 50E   | 50E   | 54    | 56    | 66    | 61     | 37    | 59    |
| 10            | 37    | 46     | 42E   | 49E   | 53E   | 52E   | 55    | 55    | 59    | 48     | 45    | 54    |
| 11            | 37    | 45     | 42E   | 52E   | 52E   | 53    | 56    | 55    | 52    | 45     | 45    | 48    |
| 12            | 36    | 45     | 46E   | 52E   | 50E   | 55    | 54    | 55    | 49    | 44     | 38    | 43    |
| 13            | 36    | 46     | 50E   | 54E   | 50E   | 56    | 53    | 54    | 47    | 42     | 37    | 41    |
| 14            | 35    | 47     | 56E   | 55    | 50E   | 58    | 53    | 54    | 67    | 42     | 36    | 40    |
| 15            | 36    | 48     | 54E   | 54    | 49E   | 58    | 54    | 55    | 125   | 40     | 36    | 41    |
| 16            | 36    | 48     | 52E   | 54    | 48E   | 59    | 59    | 56    | 84    | 44     | 59    | 49    |
| 17            | 37    | 48     | 50E   | 48E   | 49E   | 58    | 60    | 54    | 67    | 46     | 89    | 57    |
| 18            | 38    | 47     | 50    | 44E   | 50E   | 57    | 59    | 51    | 64    | 44     | 57    | 151   |
| 19            | 37    | 47     | 50    | 40E   | 54    | 57    | 57    | 48    | 59    | 42     | 52    | 205   |
| 20            | 36    | 46     | 49    | 42E   | 55    | 58    | 54    | 47    | 54    | 78     | 51    | 211   |
| 21            | 37    | 45     | 49    | 43E   | 57    | 57    | 53    | 46    | 58    | 87     | 46    | 154   |
| 22            | 38    | 46     | 49    | 45E   | 55    | 55    | 52    | 46    | 52    | 85     | 55    | 118   |
| 23            | 42    | 46     | 51    | 45E   | 53    | 55    | 52    | 47    | 51    | 79     | 117   | 88    |
| 24            | 45    | 46     | 52    | 44E   | 51    | 56    | 53    | 50    | 49    | 64     | 86    | 67    |
| 25            | 52    | 47     | 52E   | 43E   | 53    | 53    | 52    | 50    | 46    | 76     | 66    | 65    |
| 26            | 53    | 48     | 50E   | 43E   | 53    | 50    | 50    | 62    | 45    | 323    | 52    | 65    |
| 27            | 53    | 47     | 50E   | 42E   | 52    | 58    | 50    | 92    | 42    | 146    | 47    | 64    |
| 28            | 50    | 46     | 50E   | 43E   | 49    | 57    | 53    | 123   | 41    | 121    | 44    | 59    |
| 29            | 48    | 46     | 48E   | 43E   | 48E   | 57    | 57    | 115   | 40    | 106    | 43    | 54    |
| 30            | 45    | 46     | 48E   | 44E   | ----- | 57    | 64    | 96    | 41    | 91     | 43    | 53    |
| 31            | 44    | -----  | 48E   | 43E   | ----- | 58    | ----- | 101   | ----- | 71     | 44    | ----- |
| TOTAL         | 1,265 | 1,367  | 1,506 | 1,410 | 1,414 | 1,695 | 1,649 | 1,919 | 1,975 | 2,219  | 1,585 | 2,140 |
| MEAN          | 40.8  | 45.6   | 48.6  | 45.5  | 48.8  | 54.7  | 55.0  | 61.9  | 65.8  | 71.6   | 51.1  | 71.3  |
| MAX           | 55    | 48     | 56    | 55    | 57    | 59    | 64    | 123   | 149   | 323    | 117   | 211   |
| MIN           | 35    | 43     | 42    | 40    | 40    | 47    | 50    | 46    | 40    | 31     | 36    | 40    |
| AC-FT         | 2,510 | 2,710  | 2,990 | 2,800 | 2,800 | 3,360 | 3,270 | 3,810 | 3,920 | 4,400  | 3,140 | 4,240 |
| CAL YEAR 1995 | TOTAL | 17,479 | MEAN  | 47.9  | MAX   | 115   | MIN   | 14    | AC-FT | 34,670 |       |       |
| WTR YEAR 1996 | TOTAL | 20,144 | MEAN  | 55.0  | MAX   | 323   | MIN   | 31    | AC-FT | 39,960 |       |       |

# REPUBLICAN RIVER BASIN

**HARRY STRUNK LAKE near Cambridge, 06842000 - 1996**

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 40,040 acre-feet June 23, elevation 2,368.35 feet;  
minimum contents 14,190 acre-feet October 1, elevation 2,349.66 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 1995 TO SEP 1996

| Day           | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1             | 14,310 | 16,650 | 19,260 | 21,770 | 24,310 | 26,990 | 30,040 | 32,710 | 36,580 | 39,680 | 39,000 | 37,990 |
| 2             | 14,390 | 16,720 | 19,360 | 21,860 | 24,350 | 27,090 | 30,240 | 32,880 | 36,730 | 39,380 | 38,930 | 37,990 |
| 3             | 14,460 | 16,780 | 19,440 | 21,970 | 24,420 | 27,210 | 30,240 | 32,910 | 36,810 | 38,900 | 38,980 | 38,030 |
| 4             | 14,540 | 16,870 | 19,550 | 22,040 | 24,500 | 27,290 | 30,290 | 32,960 | 36,900 | 38,530 | 39,000 | 38,010 |
| 5             | 14,590 | 16,960 | 19,610 | 22,100 | 24,550 | 27,390 | 30,370 | 33,100 | 37,030 | 38,140 | 38,960 | 38,050 |
| 6             | 14,640 | 17,060 | 19,690 | 22,130 | 24,640 | 27,440 | 30,530 | 33,100 | 37,130 | 37,740 | 38,960 | 38,010 |
| 7             | 14,730 | 17,120 | 19,780 | 22,190 | 24,710 | 27,480 | 30,610 | 33,200 | 37,200 | 37,680 | 38,960 | 37,780 |
| 8             | 14,810 | 17,210 | 19,820 | 22,280 | 24,800 | 27,520 | 30,720 | 33,380 | 37,360 | 37,930 | 38,870 | 37,640 |
| 9             | 14,860 | 17,340 | 19,830 | 22,350 | 24,920 | 27,540 | 30,770 | 33,590 | 37,490 | 37,930 | 38,790 | 37,550 |
| 10            | 14,910 | 17,360 | 19,900 | 22,430 | 25,020 | 27,730 | 30,950 | 33,590 | 37,600 | 37,890 | 38,810 | 37,470 |
| 11            | 14,980 | 17,480 | 19,980 | 22,530 | 25,120 | 27,850 | 31,050 | 33,690 | 37,700 | 37,820 | 38,750 | 37,280 |
| 12            | 15,080 | 17,590 | 20,060 | 22,650 | 25,230 | 27,920 | 31,020 | 33,740 | 37,760 | 37,890 | 38,690 | 37,110 |
| 13            | 15,120 | 17,640 | 20,150 | 22,770 | 25,370 | 28,110 | 31,080 | 33,900 | 37,870 | 37,970 | 38,650 | 36,920 |
| 14            | 15,170 | 17,790 | 20,270 | 22,850 | 25,500 | 28,140 | 31,150 | 34,080 | 38,070 | 37,990 | 38,470 | 36,670 |
| 15            | 15,250 | 17,850 | 20,350 | 22,940 | 25,600 | 28,230 | 31,310 | 34,210 | 39,300 | 38,140 | 38,300 | 36,540 |
| 16            | 15,310 | 17,980 | 20,420 | 23,070 | 25,710 | 28,370 | 31,430 | 34,350 | 39,560 | 38,200 | 38,240 | 36,410 |
| 17            | 15,380 | 18,060 | 20,520 | 23,160 | 25,820 | 28,460 | 31,630 | 34,400 | 39,700 | 38,340 | 38,180 | 36,260 |
| 18            | 15,440 | 18,140 | 20,610 | 23,250 | 25,940 | 28,580 | 31,690 | 34,470 | 39,780 | 38,320 | 38,120 | 36,560 |
| 19            | 15,470 | 18,230 | 20,680 | 23,330 | 26,060 | 28,620 | 31,760 | 34,470 | 39,880 | 38,100 | 38,070 | 36,980 |
| 20            | 15,540 | 18,340 | 20,770 | 23,420 | 26,160 | 28,720 | 31,830 | 34,440 | 39,800 | 37,970 | 37,870 | 37,200 |
| 21            | 15,630 | 18,390 | 20,870 | 23,480 | 26,260 | 28,850 | 31,890 | 34,490 | 39,920 | 37,930 | 37,850 | 37,340 |
| 22            | 15,720 | 18,490 | 20,940 | 23,570 | 26,400 | 28,960 | 31,940 | 34,620 | 39,980 | 37,830 | 37,780 | 37,390 |
| 23            | 15,810 | 18,570 | 20,990 | 23,650 | 26,470 | 29,180 | 32,080 | 34,630 | 40,040 | 37,800 | 37,910 | 37,280 |
| 24            | 15,890 | 18,670 | 21,050 | 23,720 | 26,560 | 29,190 | 32,280 | 34,710 | 39,980 | 37,820 | 38,010 | 37,050 |
| 25            | 16,000 | 18,760 | 21,130 | 23,800 | 26,650 | 29,190 | 32,250 | 34,760 | 40,000 | 37,970 | 38,100 | 37,010 |
| 26            | 16,100 | 18,910 | 21,210 | 23,890 | 26,710 | 29,270 | 32,280 | 35,300 | 40,000 | 38,490 | 38,120 | 36,690 |
| 27            | 16,200 | 18,910 | 21,290 | 23,980 | 26,790 | 29,420 | 32,330 | 35,450 | 39,980 | 38,750 | 38,100 | 36,450 |
| 28            | 16,290 | 18,970 | 21,360 | 24,050 | 26,830 | 29,520 | 32,360 | 35,580 | 39,960 | 38,880 | 38,120 | 36,340 |
| 29            | 16,380 | 19,110 | 21,460 | 24,090 | 26,890 | 29,640 | 32,450 | 35,840 | 39,900 | 38,960 | 38,050 | 36,170 |
| 30            | 16,460 | 19,210 | 21,580 | 24,160 | -----  | 29,750 | 32,590 | 35,980 | 39,800 | 39,000 | 38,030 | 35,960 |
| 31            | 16,560 | -----  | 21,690 | 24,230 | -----  | 29,880 | -----  | 36,300 | -----  | 39,020 | 38,010 | -----  |
| MAX           | 16,560 | 19,210 | 21,690 | 24,230 | 26,890 | 29,880 | 32,590 | 36,300 | 40,040 | 39,680 | 39,000 | 38,050 |
| MIN           | 14,310 | 16,650 | 19,260 | 21,770 | 24,310 | 26,990 | 30,040 | 32,710 | 36,580 | 37,680 | 37,780 | 35,960 |
| CHANGE        | 2,370  | 2,650  | 2,480  | 2,540  | 2,660  | 2,990  | 2,710  | 3,710  | 3,500  | -780   | -1,010 | -2,050 |
| CAL YEAR 1995 |        |        | MEAN   | 27,795 | MAX    | 39,800 | MIN    | 13,010 |        |        |        |        |
| WTR YEAR 1996 |        |        | MEAN   | 29,060 | MAX    | 40,040 | MIN    | 14,310 |        |        |        |        |



# REPUBLICAN RIVER BASIN

## MEDICINE CREEK below Harry Strunk Lake, 06842500 - 1996

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

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

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

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 217 cubic feet per second July 2, gage height 2.45 feet; minimum daily discharge 0.27 cubic feet per second October 2-4.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1995 TO SEP 1996

| Day           | OCT   | NOV       | DEC  | JAN   | FEB   | MAR   | APR   | MAY   | JUN    | JUL     | AUG   | SEP   |
|---------------|-------|-----------|------|-------|-------|-------|-------|-------|--------|---------|-------|-------|
| 1             | .19   | .26       | .30  | .27   | .41   | .35   | .50   | .45   | .43    | 96      | 48    | 34    |
| 2             | .18   | .26       | .27  | .27   | .47   | .35   | .56   | .49   | .44    | 157     | 48    | 33    |
| 3             | .18   | .28       | .28  | .30   | .43   | .35   | .56   | .47   | .33    | 214     | 48    | 33    |
| 4             | .18   | .30       | .31  | .30   | .41   | .38   | .59   | .50   | .33    | 193     | 48    | 33    |
| 5             | .26   | .29       | .32  | .30   | .41   | .47   | .60   | .56   | .30    | 190     | 49    | 33    |
| 6             | .22   | .27       | .30  | .30   | .41   | .47   | .63   | .53   | .35    | 192     | 47    | 74    |
| 7             | .21   | .29       | .30  | .30   | .43   | .47   | .70   | .57   | .29    | 195     | 48    | 106   |
| 8             | .21   | .30       | .28  | .32   | .40   | .47   | .77   | .57   | .30    | 125     | 47    | 106   |
| 9             | .21   | .32       | .69  | .32   | .38   | .47   | .75   | .60   | .29    | 65      | 46    | 106   |
| 10            | .27   | .35       | .45  | .36   | .35   | .47   | .70   | .50   | .29    | 44      | 45    | 106   |
| 11            | .22   | .35       | .31  | .41   | .35   | .44   | .67   | .47   | .27    | 37      | 45    | 106   |
| 12            | .18   | .35       | .33  | .37   | .36   | .47   | .60   | .47   | .29    | 37      | 51    | 104   |
| 13            | .20   | .35       | .34  | .42   | .35   | .53   | .62   | .38   | .31    | 37      | 71    | 105   |
| 14            | .20   | .35       | .30  | .41   | .34   | .70   | .77   | .38   | .39    | 37      | 96    | 106   |
| 15            | .23   | .35       | .27  | .41   | .35   | .60   | .64   | .35   | 1.3    | 36      | 116   | 106   |
| 16            | .23   | .34       | .30  | .41   | .35   | .60   | .54   | .35   | 5.6    | 17      | 99    | 106   |
| 17            | .23   | .37       | .28  | .42   | .35   | .70   | .46   | .34   | 11     | 1.2     | 89    | 105   |
| 18            | .18   | .34       | .26  | .44   | .35   | .70   | .45   | .33   | 7.2    | 46      | 90    | 106   |
| 19            | .21   | .35       | .27  | .42   | .35   | .70   | .49   | .29   | 7.2    | 126     | 96    | 106   |
| 20            | .22   | .37       | .28  | .41   | .35   | .70   | .49   | .29   | 9.4    | 100     | 109   | 105   |
| 21            | .24   | .37       | .27  | .41   | .30   | .80   | .51   | .30   | 11     | 74      | 107   | 107   |
| 22            | .22   | .35       | .27  | .43   | .33   | .94   | .46   | .35   | 15     | 92      | 66    | 109   |
| 23            | .42   | .35       | .27  | .46   | .36   | 1.1   | .47   | .39   | 39     | 81      | 35    | 133   |
| 24            | .29   | .31       | .27  | .44   | .41   | .96   | .52   | .35   | 38     | 52      | 35    | 148   |
| 25            | .26   | .30       | .27  | .40   | .45   | .48   | .50   | .36   | 37     | 36      | 34    | 148   |
| 26            | .27   | .36       | .27  | .40   | .47   | .48   | .48   | .72   | 36     | 37      | 34    | 148   |
| 27            | .27   | .32       | .27  | .41   | .43   | .51   | .44   | .55   | 36     | 43      | 34    | 147   |
| 28            | .28   | .31       | .27  | .41   | .41   | .56   | .50   | .41   | 35     | 44      | 35    | 146   |
| 29            | .31   | .35       | .27  | .41   | .37   | .59   | .45   | .41   | 37     | 46      | 34    | 148   |
| 30            | .29   | .28       | .27  | .41   | ----- | .68   | .45   | .43   | 51     | 47      | 34    | 149   |
| 31            | .27   | -----     | .31  | .41   | ----- | .51   | ----- | .50   | -----  | 49      | 34    | ----- |
| TOTAL         | 7.33  | 9.74      | 9.45 | 11.75 | 11.13 | 18.00 | 16.87 | 13.66 | 381.31 | 2,546.2 | 1,818 | 3,102 |
| MEAN          | .24   | .32       | .30  | .38   | .38   | .58   | .56   | .44   | 12.7   | 82.1    | 58.6  | 103   |
| MAX           | .42   | .37       | .69  | .46   | .47   | 1.1   | .77   | .72   | 51     | 214     | 116   | 149   |
| MIN           | .18   | .26       | .26  | .27   | .30   | .35   | .44   | .29   | .27    | 1.2     | 34    | 33    |
| AC-FT         | 15    | 19        | 19   | 23    | 22    | 36    | 33    | 27    | 756    | 5,050   | 3,610 | 6,150 |
| CAL YEAR 1995 | TOTAL | 19,404.48 | MEAN | 53.2  | MAX   | 320   | MIN   | .16   | AC-FT  | 38,490  |       |       |
| WTR YEAR 1996 | TOTAL | 7,945.44  | MEAN | 21.7  | MAX   | 214   | MIN   | .18   | AC-FT  | 15,760  |       |       |

# REPUBLICAN RIVER BASIN

**TURKEY CREEK at Edison, 06844210 - 1996**

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

DRAINAGE AREA.--74.9 square miles.

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

PERIOD OF RECORD.--1977 - present

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

E indicates estimated daily discharge. Estimated daily discharges December 7-8, 24-January 11, 17-February 4, 6-18, 26-March 3, 26-29. Records good, except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 1,510 cubic feet per second June 16, gage height 16.62 feet; minimum daily discharge 6.0 cubic feet per second estimated December 8, January 5-7, 19, February 1.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1995 TO SEP 1996

| Day                 | OCT   | NOV      | DEC   | JAN   | FEB   | MAR  | APR   | MAY   | JUN   | JUL    | AUG   | SEP   |
|---------------------|-------|----------|-------|-------|-------|------|-------|-------|-------|--------|-------|-------|
| 1                   | 6.2   | 9.1      | 10    | 8.0E  | 6.0E  | 14E  | 14    | 12    | 54    | 18     | 15    | 15    |
| 2                   | 6.2   | 9.3      | 10    | 7.5E  | 7.0E  | 15E  | 14    | 12    | 23    | 18     | 15    | 14    |
| 3                   | 6.4   | 8.5      | 10    | 7.0E  | 8.0E  | 15E  | 14    | 12    | 19    | 19     | 73    | 13    |
| 4                   | 6.5   | 8.0      | 10    | 6.5E  | 9.0E  | 16   | 14    | 12    | 17    | 27     | 40    | 13    |
| 5                   | 6.4   | 10       | 9.9   | 6.0E  | 10    | 14   | 14    | 11    | 16    | 23     | 20    | 13    |
| 6                   | 6.6   | 9.1      | 10    | 6.0E  | 12 E  | 12   | 13    | 11    | 16    | 21     | 17    | 13    |
| 7                   | 7.1   | 9.1      | 7.9   | 6.0E  | 14 E  | 17   | 13    | 12    | 15    | 21     | 19    | 13    |
| 8                   | 7.2   | 9.1      | 6.0E  | 9.0E  | 16 E  | 18   | 13    | 12    | 15    | 28     | 19    | 13    |
| 9                   | 7.4   | 8.8      | 7.0E  | 12 E  | 18 E  | 14   | 13    | 100   | 14    | 40     | 14    | 13    |
| 10                  | 7.1   | 9.3      | 8.7   | 13 E  | 20 E  | 22   | 13    | 110   | 14    | 20     | 13    | 13    |
| 11                  | 7.1   | 8.9      | 10    | 13 E  | 19 E  | 19   | 13    | 28    | 14    | 17     | 15    | 13    |
| 12                  | 7.2   | 11       | 14    | 14    | 18 E  | 15   | 13    | 17    | 14    | 17     | 16    | 13    |
| 13                  | 7.3   | 10       | 13    | 12    | 16 E  | 15   | 13    | 14    | 15    | 15     | 14    | 13    |
| 14                  | 7.7   | 9.7      | 12    | 12    | 15 E  | 15   | 13    | 13    | 15    | 15     | 14    | 13    |
| 15                  | 7.9   | 9.4      | 12    | 13    | 14 E  | 14   | 14    | 13    | 19    | 15     | 14    | 21    |
| 16                  | 8.2   | 9.8      | 11    | 11    | 14 E  | 14   | 13    | 13    | 707   | 16     | 58    | 27    |
| 17                  | 7.7   | 9.5      | 11    | 9.2E  | 15 E  | 14   | 13    | 12    | 168   | 16     | 54    | 17    |
| 18                  | 8.2   | 9.9      | 12    | 7.6E  | 16 E  | 14   | 13    | 12    | 93    | 13     | 29    | 16    |
| 19                  | 8.2   | 9.7      | 11    | 6.0E  | 17    | 14   | 13    | 12    | 53    | 13     | 16    | 23    |
| 20                  | 8.2   | 9.4      | 11    | 7.0E  | 17    | 14   | 13    | 12    | 34    | 27     | 15    | 32    |
| 21                  | 8.7   | 9.5      | 11    | 9.6E  | 16    | 13   | 12    | 11    | 25    | 29     | 14    | 20    |
| 22                  | 9.0   | 9.4      | 12    | 12 E  | 16    | 13   | 12    | 12    | 25    | 16     | 31    | 16    |
| 23                  | 9.6   | 10       | 8.9   | 15 E  | 16    | 13   | 12    | 24    | 202   | 22     | 18    | 14    |
| 24                  | 10    | 10       | 7.7E  | 14 E  | 18    | 14   | 12    | 15    | 95    | 22     | 15    | 15    |
| 25                  | 10    | 10       | 7.7E  | 12 E  | 14    | 11   | 12    | 14    | 39    | 19     | 15    | 15    |
| 26                  | 9.0   | 10       | 7.7E  | 11 E  | 14 E  | 11E  | 12    | 45    | 25    | 39     | 15    | 21    |
| 27                  | 8.9   | 10       | 7.0E  | 9.4E  | 13 E  | 12E  | 12    | 234   | 22    | 13     | 14    | 17    |
| 28                  | 9.0   | 7.9      | 6.5E  | 8.0E  | 13 E  | 13E  | 11    | 68    | 21    | 39     | 15    | 16    |
| 29                  | 8.8   | 11       | 7.0E  | 7.5E  | 13 E  | 14E  | 12    | 29    | 20    | 132    | 15    | 15    |
| 30                  | 8.5   | 12       | 7.7E  | 7.0E  | ----- | 15   | 12    | 19    | 19    | 52     | 14    | 15    |
| 31                  | 8.9   | -----    | 8.5E  | 6.5E  | ----- | 15   | ----- | 51    | ----- | 21     | 18    | ----- |
| TOTAL               | 245.2 | 287.4    | 298.2 | 297.8 | 414.0 | 449  | 385   | 972   | 1,828 | 803    | 674   | 485   |
| MEAN                | 7.91  | 9.58     | 9.62  | 9.61  | 14.3  | 14.5 | 12.8  | 31.4  | 60.9  | 25.9   | 21.7  | 16.2  |
| MAX                 | 10    | 12       | 14    | 15    | 20    | 22   | 14    | 234   | 707   | 132    | 73    | 32    |
| MIN                 | 6.2   | 7.9      | 6.0   | 6.0   | 6.0   | 11   | 11    | 11    | 14    | 13     | 13    | 13    |
| AC-FT               | 486   | 570      | 591   | 591   | 821   | 891  | 764   | 1,930 | 3,630 | 1,590  | 1,340 | 962   |
| CAI YEAR 1995 TOTAL |       | 4,421.60 | MEAN  | 12.1  | MAX   | 58   | MIN   | 4.0   | AC-FT | 8,770  |       |       |
| WTR YEAR 1996 TOTAL |       | 7,138.60 | MEAN  | 19.5  | MAX   | 707  | MIN   | 6.0   | AC-FT | 14,160 |       |       |

# REPUBLICAN RIVER BASIN

## BEAVER CREEK near Beaver City, 06847000 - 1996

LOCATION.--SW1/4SW1/4 Sec. 23-2-23 W., Furnas County, Lat. 40° 07' 12", Long. 99° 53' 35", on left bank 400 feet downstream from bridge on U.S. Highway 283, 0.75 mile south of State Highway 89, and 3.5 miles west of Beaver City, and 25.5 miles above the mouth.

DRAINAGE AREA.--2,081 square miles, approximately 1,650 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Gage datum is 2,164.84 feet above sea level.

PERIOD OF RECORD.--1936 - present (Some records are monthly discharge only, published in WSP 1310).

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

E indicates estimated daily discharges. Estimated records December 9-January 9, 18-February 16, August 13-15, 24-26. Records fair, except estimated records 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 601 cubic feet per second August 22, gage height 10.06 feet; minimum daily discharge 0.30 cubic feet per second October 1.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1995 TO SEP 1996

| Day                 | OCT   | NOV      | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL    | AUG   | SEP   |
|---------------------|-------|----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1                   | .30   | .87      | .71   | .80E  | 1.0E  | 1.1   | 1.4   | 1.3   | 3.8   | 32     | 22    | 40    |
| 2                   | .32   | .72      | .67   | .80E  | 1.0E  | 1.1   | 1.4   | 1.4   | 3.0   | 24     | 16    | 37    |
| 3                   | .35   | .59      | .74   | .80E  | 1.0E  | 1.1   | 1.3   | 1.4   | 2.5   | 20     | 12    | 35    |
| 4                   | .36   | .60      | .75   | .80E  | 1.0E  | 1.1   | 1.8   | 1.3   | 3.0   | 16     | 10    | 33    |
| 5                   | .32   | .55      | .74   | .80E  | 1.0E  | 1.1   | 1.3   | 1.2   | 3.0   | 13     | 10    | 67    |
| 6                   | .38   | .56      | .71   | .80E  | 1.0E  | 1.0   | 1.3   | 1.2   | 14    | 12     | 10    | 52    |
| 7                   | .45   | .55      | .74   | .80E  | 1.0E  | 1.1   | 1.3   | 1.4   | 18    | 10     | 21    | 41    |
| 8                   | .46   | .57      | .70   | .80E  | 1.0E  | 1.0   | 1.4   | 1.4   | 8.5   | 11     | 46    | 37    |
| 9                   | .44   | .60      | .70E  | .80E  | 1.0E  | 1.0   | 1.4   | 1.3   | 3.7   | 9.1    | 112   | 37    |
| 10                  | .33   | .65      | .70E  | 1.2   | 1.0E  | .98   | 1.4   | 1.4   | 2.7   | 7.9    | 110   | 35    |
| 11                  | .34   | .64      | .70E  | 1.1   | 1.0E  | 1.1   | 1.4   | 1.3   | 2.3   | 7.2    | 98    | 31    |
| 12                  | .38   | .64      | .70E  | 1.0   | 1.0E  | 1.1   | 1.3   | 1.2   | 2.0   | 6.9    | 106   | 76    |
| 13                  | .40   | .64      | .70E  | 1.0   | 1.0E  | 1.3   | 1.3   | 1.3   | 1.9   | 6.4    | 135E  | 77    |
| 14                  | .46   | .64      | .70E  | 1.0   | 1.0E  | 1.4   | 1.7   | 1.2   | 2.6   | 5.9    | 145E  | 60    |
| 15                  | .52   | .67      | .70E  | 1.0   | 1.0E  | 1.3   | 1.7   | 1.3   | 4.5   | 8.0    | 140E  | 50    |
| 16                  | .54   | .72      | .70E  | 1.0   | 1.0E  | 1.3   | 1.6   | 1.3   | 4.7   | 11     | 126   | 44    |
| 17                  | .47   | .68      | .70E  | 1.1   | 1.0   | 1.3   | 1.5   | 1.2   | 19    | 7.7    | 81    | 41    |
| 18                  | .47   | .68      | .70E  | 1.0 E | 1.1   | 1.3   | 1.3   | 1.2   | 18    | 4.6    | 64    | 40    |
| 19                  | .58   | .69      | .70E  | 1.0 E | 1.1   | 1.3   | 1.3   | 1.0   | 9.9   | 4.8    | 71    | 46    |
| 20                  | .64   | .69      | .70E  | 1.0 E | 1.2   | 1.2   | 1.2   | .92   | 9.3   | 7.6    | 125   | 81    |
| 21                  | .73   | .69      | .70E  | 1.0 E | 1.2   | 1.2   | 1.2   | .69   | 7.4   | 7.0    | 110   | 52    |
| 22                  | .80   | .66      | .70E  | 1.0 E | 1.3   | 1.3   | 1.2   | .75   | 30    | 6.1    | 417   | 46    |
| 23                  | 1.2   | .64      | .70E  | 1.0 E | 1.2   | 1.2   | 1.2   | 1.1   | 46    | 14     | 206   | 40    |
| 24                  | 1.1   | .65      | .80E  | 1.0 E | 1.3   | 1.4   | 1.2   | 1.1   | 57    | 10     | 155E  | 36    |
| 25                  | 1.1   | .64      | .80E  | 1.0 E | 1.3   | 1.2   | 1.2   | 1.2   | 43    | 18     | 86E   | 46    |
| 26                  | 1.2   | .61      | .80E  | 1.0 E | 1.2   | 1.2   | 1.3   | 3.1   | 27    | 74     | 60E   | 47    |
| 27                  | 1.3   | .56      | .80E  | 1.0 E | 1.1   | 1.2   | 1.3   | 16    | 21    | 41     | 52    | 52    |
| 28                  | 1.2   | .52      | .80E  | 1.0 E | 1.1   | 1.3   | 1.3   | 10    | 60    | 26     | 52    | 82    |
| 29                  | 1.1   | .62      | .80E  | 1.0 E | 1.1   | 1.4   | 1.4   | 9.6   | 55    | 25     | 55    | 67    |
| 30                  | .94   | .74      | .80E  | 1.0 E | ----- | 1.8   | 1.4   | 6.9   | 44    | 29     | 49    | 49    |
| 31                  | .86   | -----    | .80E  | 1.0 E | ----- | 1.8   | ----- | 4.4   | ----- | 31     | 44    | ----- |
| TOTAL               | 20.04 | 19.28    | 22.66 | 29.60 | 31.2  | 38.18 | 41.0  | 80.06 | 526.8 | 506.2  | 2,746 | 1,477 |
| MEAN                | .65   | .64      | .73   | .95   | 1.08  | 1.23  | 1.37  | 2.58  | 17.6  | 16.3   | 88.6  | 49.2  |
| MAX                 | 1.3   | .87      | .80   | 1.2   | 1.3   | 1.8   | 1.8   | 16    | 60    | 74     | 417   | 82    |
| MIN                 | .30   | .52      | .67   | .80   | 1.0   | .98   | 1.2   | .69   | 1.9   | 4.6    | 10    | 31    |
| AC-FT               | 40    | 38       | 45    | 59    | 62    | 76    | 81    | 159   | 1,040 | 1,000  | 5,450 | 2,930 |
| CAL YEAR 1995 TOTAL |       | 1,054.58 | MEAN  | 2.69  | MAX   | 50    | MIN   | .20   | AC-FT | 2,090  |       |       |
| WTR YEAR 1996 TOTAL |       | 5,538.02 | MEAN  | 15.1  | MAX   | 417   | MIN   | .30   | AC-FT | 10,980 |       |       |

# REPUBLICAN RIVER BASIN

## HARLAN COUNTY RESERVOIR near Republican City, 06849000 - 1996

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 13,550 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.

E indicates estimated daily storage value. Estimated storage August 18-21. Records are good.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 497,400 acre-feet April 6, 1960, elevation 1,955.67 feet;  
minimum since start of operation, 110,300 acre-feet October 22 to November 6, 1953,  
elevation 1,922.00 feet.

EXTREMES FOR CURRENT YEAR.--Maximum contents 379,700 acre-feet August 9, elevation 1950.56 feet;  
minimum contents 249,800 acre-feet October 22, elevation 1940.60 feet.

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 1995 TO SEP 1996

| Day           | OCT     | NOV     | DEC     | JAN          | FEB     | MAR         | APR     | MAY         | JUN     | JUL     | AUG      | SEP     |
|---------------|---------|---------|---------|--------------|---------|-------------|---------|-------------|---------|---------|----------|---------|
| 1             | 250,800 | 251,500 | 257,500 | 263,857      | 272,096 | 281,347     | 292,095 | 301,023     | 324,071 | 358,436 | 353,393  | 352,676 |
| 2             | 250,900 | 251,800 | 257,900 | 264,202      | 272,096 | 281,347     | 292,717 | 301,404     | 325,156 | 357,278 | 353,536  | 350,815 |
| 3             | 250,900 | 251,800 | 258,300 | 264,547      | 272,096 | 281,347     | 292,966 | 301,404     | 325,700 | 355,836 | 361,193  | 349,245 |
| 4             | 250,900 | 251,800 | 258,600 | 264,893      | 272,449 | 281,947     | 292,966 | 301,786     | 326,380 | 354,685 | 363,231  | 347,680 |
| 5             | 251,100 | 251,900 | 258,600 | 265,123      | 272,566 | 282,428     | 293,215 | 302,040     | 327,196 | 353,249 | 365,424  | 345,976 |
| 6             | 250,600 | 252,300 | 258,600 | 265,239      | 272,683 | 282,548     | 293,713 | 302,040     | 328,014 | 352,246 | 365,424  | 344,135 |
| 7             | 250,300 | 252,400 | 258,700 | 265,354      | 272,801 | 282,788     | 293,962 | 302,426     | 328,424 | 350,958 | 371,606  | 342,863 |
| 8             | 250,500 | 252,400 | 258,900 | 265,585      | 272,801 | 282,788     | 294,212 | 303,329     | 328,834 | 352,963 | 377,853  | 340,896 |
| 9             | 250,600 | 252,700 | 259,000 | 265,700      | 273,036 | 282,788     | 294,586 | 303,716     | 329,795 | 353,106 | 379,651  | 339,356 |
| 10            | 250,500 | 253,300 | 259,000 | 266,047      | 273,389 | 283,149     | 294,960 | 303,974     | 330,070 | 353,536 | 379,350  | 338,237 |
| 11            | 250,500 | 253,300 | 259,300 | 266,163      | 273,389 | 283,754     | 295,460 | 304,362     | 330,345 | 352,963 | 379,050  | 336,842 |
| 12            | 250,500 | 253,500 | 259,000 | 266,510      | 273,741 | 284,362     | 295,460 | 305,008     | 331,996 | 352,389 | 377,853  | 335,589 |
| 13            | 250,500 | 253,600 | 259,400 | 266,742      | 274,212 | 284,605     | 295,335 | 305,267     | 332,134 | 352,103 | 376,510  | 333,928 |
| 14            | 250,500 | 253,800 | 259,400 | 266,857      | 274,566 | 284,849     | 295,836 | 305,914     | 332,548 | 353,106 | 375,021  | 332,686 |
| 15            | 250,500 | 253,800 | 259,700 | 267,089      | 275,037 | 285,335     | 295,962 | 306,173     | 334,620 | 352,103 | 373,237  | 333,376 |
| 16            | 250,300 | 254,500 | 259,700 | 267,669      | 275,509 | 286,067     | 296,340 | 306,562     | 335,450 | 351,530 | 372,941  | 332,410 |
| 17            | 250,300 | 254,600 | 260,300 | 269,179      | 275,981 | 286,432     | 298,234 | 307,081     | 337,400 | 350,958 | 371,754  | 330,345 |
| 18            | 250,300 | 254,900 | 260,500 | 269,179      | 276,454 | 286,799     | 298,361 | 307,081     | 340,195 | 349,815 | 371,310E | 330,207 |
| 19            | 250,600 | 255,100 | 260,500 | 269,179      | 277,045 | 287,043     | 298,741 | 307,211     | 340,756 | 349,388 | 369,097E | 333,100 |
| 20            | 250,600 | 255,100 | 260,900 | 269,179      | 277,519 | 287,165     | 298,741 | 307,341     | 341,036 | 350,101 | 367,626E | 332,410 |
| 21            | 250,300 | 255,300 | 261,200 | 269,528      | 278,116 | 287,531     | 298,994 | 307,341     | 341,036 | 350,387 | 365,131E | 331,583 |
| 22            | 249,800 | 255,800 | 261,800 | 269,877      | 278,952 | 287,654     | 299,120 | 308,510     | 345,267 | 349,958 | 363,960  | 330,345 |
| 23            | 250,800 | 255,900 | 262,000 | 269,877      | 278,952 | 288,143     | 299,500 | 308,903     | 353,680 | 349,958 | 362,794  | 329,246 |
| 24            | 250,700 | 256,100 | 262,000 | 270,227      | 279,191 | 290,357     | 299,500 | 309,952     | 356,124 | 349,388 | 361,920  | 327,196 |
| 25            | 250,600 | 256,600 | 262,500 | 270,577      | 279,789 | 289,367     | 299,754 | 309,952     | 358,146 | 348,533 | 361,047  | 327,196 |
| 26            | 250,900 | 256,900 | 262,600 | 270,693      | 280,388 | 289,367     | 299,500 | 314,297     | 358,726 | 347,964 | 359,885  | 325,564 |
| 27            | 250,900 | 256,900 | 262,800 | 270,810      | 280,627 | 289,490     | 299,754 | 316,421     | 359,305 | 347,395 | 358,146  | 323,664 |
| 28            | 250,800 | 256,900 | 263,100 | 271,277      | 280,507 | 289,985     | 300,769 | 318,021     | 359,595 | 351,387 | 356,700  | 322,446 |
| 29            | 250,600 | 257,100 | 263,200 | 271,510      | 280,747 | 290,729     | 300,642 | 319,625     | 359,740 | 354,685 | 355,548  | 320,831 |
| 30            | 250,700 | 257,300 | 263,500 | 271,510      | -----   | 291,350     | 300,769 | 320,831     | 359,015 | 355,980 | 354,541  | 319,090 |
| 31            | 251,000 | -----   | 263,700 | 271,510      | -----   | 291,474     | -----   | 322,852     | -----   | 354,829 | 353,967  | -----   |
| MAX           | 251,100 | 257,300 | 263,700 | 271,510      | 280,747 | 291,474     | 300,769 | 322,852     | 359,740 | 358,436 | 379,651  | 352,676 |
| MIN           | 249,800 | 251,500 | 257,500 | 263,857      | 272,096 | 281,347     | 292,095 | 301,023     | 324,071 | 347,395 | 353,393  | 319,090 |
| CHANGE        | 100     | 6,300   | 6,400   | 7,810        | 9,237   | 10,727      | 9,295   | 22,083      | 36,163  | -4,186  | -862     | -34,877 |
| CAL YEAR 1995 |         |         |         | MEAN 299,089 |         | MAX 386,100 |         | MIN 248,300 |         |         |          |         |
| WTR YEAR 1996 |         |         |         | MEAN 299,391 |         | MAX 379,651 |         | MIN 249,800 |         |         |          |         |

# REPUBLICAN RIVER BASIN

## THOMPSON CREEK at Riverton, 06851500 - 1996

LOCATION.--NW1/4NW1/4 Sec. 2-1-13 W., Franklin County, Lat. 40°05'21", Long. 98°45'38", on left bank 15 feet downstream from bridge on U. S. Highway 136, at west edge of Riverton, 240 feet upstream from Burlington Northern Railroad bridge, and 0.5 miles upstream from the mouth.

DRAINAGE AREA.--290 square miles; approximately 197 square miles contributes directly to surface runoff.

GAGE.--Continuous stage recorder. Datum of gage is 1,753.38 feet above National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1948 - 1956, Annual peaks 1962 - 1968, occasional low flow measurements 1961 -1968, 1968 - 1975, 1977 - present

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

E indicates estimated daily discharge. Estimated daily discharges; November 3-5, 9-11, 27-28, December 6-12, 17-25, 30-31, January 1-12, 18 February 7, 10-12, 15-17, 27-March 1, 6-9, 24-27. Records fair, except estimated records 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 7.8 cubic feet per second July 28, 1995.

EXTREMES FOR CURRENT YEAR.--Peak discharge 4,890 cubic feet per second July 19, gage height 12.66 feet; minimum daily discharge 6.5 cubic feet per second June 11.

### DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1995 TO SEP 1996

| Day                 | OCT   | NOV      | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN     | JUL    | AUG   | SEP   |
|---------------------|-------|----------|-------|-------|-------|-------|-------|-------|---------|--------|-------|-------|
| 1                   | 23    | 33       | 34    | 21E   | 15E   | 20E   | 19    | 24    | 77      | 24     | 58    | 24    |
| 2                   | 21    | 33       | 36    | 21E   | 14E   | 20    | 19    | 25    | 20      | 23     | 56    | 21    |
| 3                   | 20    | 26E      | 36    | 21E   | 16E   | 20    | 19    | 24    | 15      | 22     | 77    | 20    |
| 4                   | 21    | 25E      | 38    | 20E   | 17E   | 20    | 19    | 24    | 11      | 19     | 62    | 20    |
| 5                   | 25    | 26E      | 36    | 19E   | 21E   | 21    | 19    | 25    | 11      | 19     | 410   | 19    |
| 6                   | 27    | 27       | 30E   | 18E   | 30E   | 20E   | 19    | 24    | 10      | 18     | 217   | 19    |
| 7                   | 26    | 26       | 29E   | 16E   | 50E   | 18E   | 19    | 26    | 8.6     | 21     | 263   | 20    |
| 8                   | 23    | 25       | 25E   | 16E   | 25    | 17E   | 19    | 26    | 8.5     | 799    | 144   | 19    |
| 9                   | 23    | 30E      | 18E   | 19E   | 25    | 20E   | 20    | 26    | 7.6     | 130    | 51    | 17    |
| 10                  | 23    | 28E      | 17E   | 22E   | 27E   | 22    | 20    | 26    | 6.6     | 33     | 25    | 17    |
| 11                  | 20    | 26E      | 19E   | 27E   | 23E   | 22    | 20    | 26    | 6.5     | 43     | 17    | 18    |
| 12                  | 18    | 28       | 22E   | 30E   | 28E   | 22    | 19    | 29    | 7.3     | 53     | 22    | 17    |
| 13                  | 16    | 28       | 23    | 29    | 24    | 23    | 19    | 30    | 31      | 29     | 29    | 17    |
| 14                  | 17    | 30       | 26    | 29    | 23    | 22    | 24    | 29    | 8.4     | 119    | 32    | 17    |
| 15                  | 17    | 30       | 29    | 24    | 20E   | 22    | 23    | 30    | 9.2     | 37     | 33    | 21    |
| 16                  | 19    | 30       | 28    | 27    | 17E   | 21    | 23    | 28    | 171     | 48     | 23    | 16    |
| 17                  | 20    | 29       | 27E   | 24    | 18E   | 21    | 23    | 31    | 63      | 22     | 20    | 17    |
| 18                  | 20    | 30       | 26E   | 21E   | 17    | 21    | 23    | 26    | 22      | 10     | 19    | 21    |
| 19                  | 21    | 27       | 25E   | 16E   | 18    | 21    | 23    | 27    | 15      | 747    | 17    | 34    |
| 20                  | 19    | 31       | 25E   | 21E   | 19    | 20    | 24    | 28    | 14      | 757    | 14    | 27    |
| 21                  | 20    | 35       | 21E   | 26E   | 23    | 20    | 23    | 26    | 12      | 957    | 18    | 22    |
| 22                  | 17    | 34       | 19E   | 25E   | 25    | 19    | 23    | 25    | 20      | 736    | 22    | 19    |
| 23                  | 16    | 35       | 18E   | 23E   | 26    | 19    | 23    | 874   | 533     | 394    | 23    | 20    |
| 24                  | 15    | 33       | 21E   | 20E   | 27    | 17E   | 24    | 121   | 173     | 176    | 22    | 21    |
| 25                  | 21    | 30       | 23E   | 20E   | 26    | 24E   | 23    | 26    | 67      | 67     | 22    | 22    |
| 26                  | 30    | 30       | 25    | 18E   | 25    | 16E   | 23    | 511   | 37      | 32     | 19    | 22    |
| 27                  | 29    | 30E      | 24    | 20E   | 23E   | 19E   | 24    | 1,020 | 25      | 19     | 18    | 21    |
| 28                  | 30    | 27E      | 23    | 25E   | 20E   | 19    | 27    | 301   | 24      | 12     | 19    | 20    |
| 29                  | 32    | 30       | 22    | 21E   | 18E   | 18    | 28    | 60    | 23      | 190    | 19    | 19    |
| 30                  | 31    | 29       | 21E   | 16E   | ----- | 19    | 27    | 21    | 25      | 415    | 35    | 20    |
| 31                  | 33    | -----    | 21E   | 14E   | ----- | 19    | ----- | 52    | -----   | 159    | 42    | ----- |
| TOTAL               | 693   | 881      | 787   | 669   | 660   | 622   | 658   | 3,571 | 1,461.7 | 5,730  | 1,848 | 607   |
| MEAN                | 22.4  | 29.4     | 25.4  | 21.6  | 22.8  | 20.1  | 21.9  | 115   | 48.7    | 185    | 59.6  | 20.2  |
| MAX                 | 33    | 35       | 38    | 30    | 50    | 24    | 28    | 1,020 | 533     | 799    | 410   | 34    |
| MIN                 | 15    | 25       | 17    | 14    | 14    | 16    | 19    | 21    | 6.5     | 10     | 14    | 16    |
| AC-FT               | 1,370 | 1,750    | 1,560 | 1,330 | 1,310 | 1,230 | 1,310 | 7,080 | 2,900   | 11,370 | 3,670 | 1,200 |
| CAL YEAR 1995 TOTAL |       | 12,119.8 | MEAN  | 33.2  | MAX   | 1,120 | MIN   | 7.8   | AC-FT   | 24,040 |       |       |
| WTR YEAR 1996 TOTAL |       | 18,187.7 | MEAN  | 49.7  | MAX   | 1,020 | MIN   | 6.5   | AC-FT   | 36,080 |       |       |

# REPUBLICAN RIVER BASIN

**ELM CREEK at Amboy, 06852000 - 1996**

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, 200 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, 1960 - 1977, occasional low flow measurements 1954 - 1977, 1977 - present

REMARKS.--Published by U. S. Geological Survey up to Oct. 1, 1993.  
E indicates estimated daily discharge. Estimated records December 6-11, 17-23, 31-January 9, 18-19, 25, 28-February 4, June 2-26. Records good, except estimated records poor.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge 3,500 cubic feet per second June 23, gage height 15.79 from high water mark; minimum daily discharge 10 cubic feet per second October 1-4, 8-11, August 2, 4.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1995 TO SEP 1996

| Day                 | OCT  | NOV      | DEC  | JAN  | FEB   | MAR   | APR   | MAY   | JUN    | JUL    | AUG   | SEP   |
|---------------------|------|----------|------|------|-------|-------|-------|-------|--------|--------|-------|-------|
| 1                   | 10   | 13       | 15   | 14E  | 12E   | 15    | 15    | 17    | 70     | 12     | 11    | 14    |
| 2                   | 10   | 13       | 15   | 14E  | 11E   | 15    | 15    | 19    | 20E    | 12     | 10    | 14    |
| 3                   | 10   | 13       | 15   | 14E  | 11E   | 15    | 15    | 17    | 17E    | 11     | 11    | 14    |
| 4                   | 10   | 13       | 14   | 14E  | 13E   | 15    | 15    | 17    | 16E    | 12     | 10    | 13    |
| 5                   | 12   | 13       | 14   | 14E  | 14    | 15    | 15    | 17    | 15E    | 12     | 582   | 13    |
| 6                   | 11   | 13       | 13E  | 14E  | 15    | 14    | 15    | 17    | 15E    | 11     | 260   | 12    |
| 7                   | 11   | 13       | 13E  | 13E  | 15    | 14    | 15    | 17    | 16E    | 11     | 74    | 13    |
| 8                   | 10   | 13       | 13E  | 13E  | 15    | 14    | 16    | 17    | 14E    | 76     | 38    | 13    |
| 9                   | 10   | 14       | 13E  | 14E  | 15    | 13    | 16    | 17    | 14E    | 19     | 27    | 13    |
| 10                  | 10   | 13       | 13E  | 15   | 15    | 14    | 16    | 18    | 13E    | 17     | 24    | 13    |
| 11                  | 10   | 13       | 14E  | 15   | 15    | 14    | 16    | 17    | 13E    | 17     | 23    | 13    |
| 12                  | 11   | 14       | 15   | 15   | 15    | 14    | 16    | 19    | 14E    | 16     | 22    | 13    |
| 13                  | 11   | 14       | 15   | 15   | 16    | 14    | 17    | 18    | 15E    | 16     | 20    | 13    |
| 14                  | 11   | 14       | 15   | 15   | 15    | 14    | 17    | 17    | 14E    | 19     | 20    | 13    |
| 15                  | 11   | 14       | 15   | 15   | 15    | 14    | 17    | 17    | 14E    | 16     | 19    | 15    |
| 16                  | 11   | 14       | 15   | 15   | 15    | 14    | 17    | 17    | 270E   | 19     | 18    | 14    |
| 17                  | 11   | 14       | 14E  | 15   | 15    | 14    | 17    | 17    | 20E    | 15     | 17    | 14    |
| 18                  | 11   | 14       | 14E  | 20E  | 15    | 14    | 16    | 16    | 15E    | 14     | 16    | 16    |
| 19                  | 11   | 14       | 13E  | 17E  | 15    | 13    | 16    | 16    | 14E    | 202    | 16    | 84    |
| 20                  | 12   | 14       | 13E  | 16   | 15    | 14    | 16    | 16    | 14E    | 87     | 15    | 65    |
| 21                  | 11   | 14       | 13E  | 16   | 16    | 14    | 16    | 16    | 14E    | 42     | 14    | 25    |
| 22                  | 12   | 15       | 13E  | 15   | 15    | 14    | 16    | 24    | 15E    | 40     | 29    | 17    |
| 23                  | 12   | 14       | 13E  | 14   | 15    | 14    | 17    | 799   | 1,600E | 39     | 35    | 15    |
| 24                  | 11   | 14       | 14   | 14   | 15    | 14    | 17    | 155   | 40E    | 24     | 17    | 14    |
| 25                  | 12   | 15       | 15   | 14E  | 16    | 14    | 17    | 74    | 20E    | 17     | 15    | 15    |
| 26                  | 12   | 15       | 14   | 14   | 15    | 15    | 17    | 179   | 18E    | 15     | 14    | 15    |
| 27                  | 12   | 15       | 14   | 14   | 15    | 14    | 16    | 236   | 17     | 14     | 14    | 14    |
| 28                  | 12   | 15       | 14   | 14E  | 14    | 14    | 18    | 93    | 15     | 14     | 13    | 14    |
| 29                  | 12   | 15       | 14   | 13E  | 14    | 14    | 20    | 79    | 13     | 13     | 14    | 13    |
| 30                  | 12   | 15       | 14   | 13E  | ----- | 14    | 18    | 266   | 13     | 13     | 14    | 13    |
| 31                  | 13   | -----    | 13E  | 12E  | ----- | 15    | ----- | 154   | -----  | 12     | 14    | ----- |
| TOTAL               | 345  | 417      | 432  | 450  | 422   | 439   | 490   | 2,418 | 2,378  | 857    | 1,426 | 547   |
| MEAN                | 11.1 | 13.9     | 13.9 | 14.5 | 14.6  | 14.2  | 16.3  | 78.0  | 79.3   | 27.6   | 46.0  | 18.2  |
| MAX                 | 13   | 15       | 15   | 20   | 16    | 15    | 20    | 799   | 1,600  | 202    | 582   | 84    |
| MIN                 | 10   | 13       | 13   | 12   | 11    | 13    | 15    | 16    | 13     | 11     | 10    | 12    |
| AC-FT               | 684  | 827      | 857  | 893  | 837   | 871   | 972   | 4,800 | 4,720  | 1,700  | 2,830 | 1,080 |
| CAL YEAR 1995 TOTAL |      | 6,095.3  | MEAN | 16.7 | MAX   | 234   | MIN   | 8.7   | AC-FT  | 12,090 |       |       |
| WTR YEAR 1996 TOTAL |      | 10,621.0 | MEAN | 29.0 | MAX   | 1,600 | MIN   | 10    | AC-FT  | 21,070 |       |       |

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