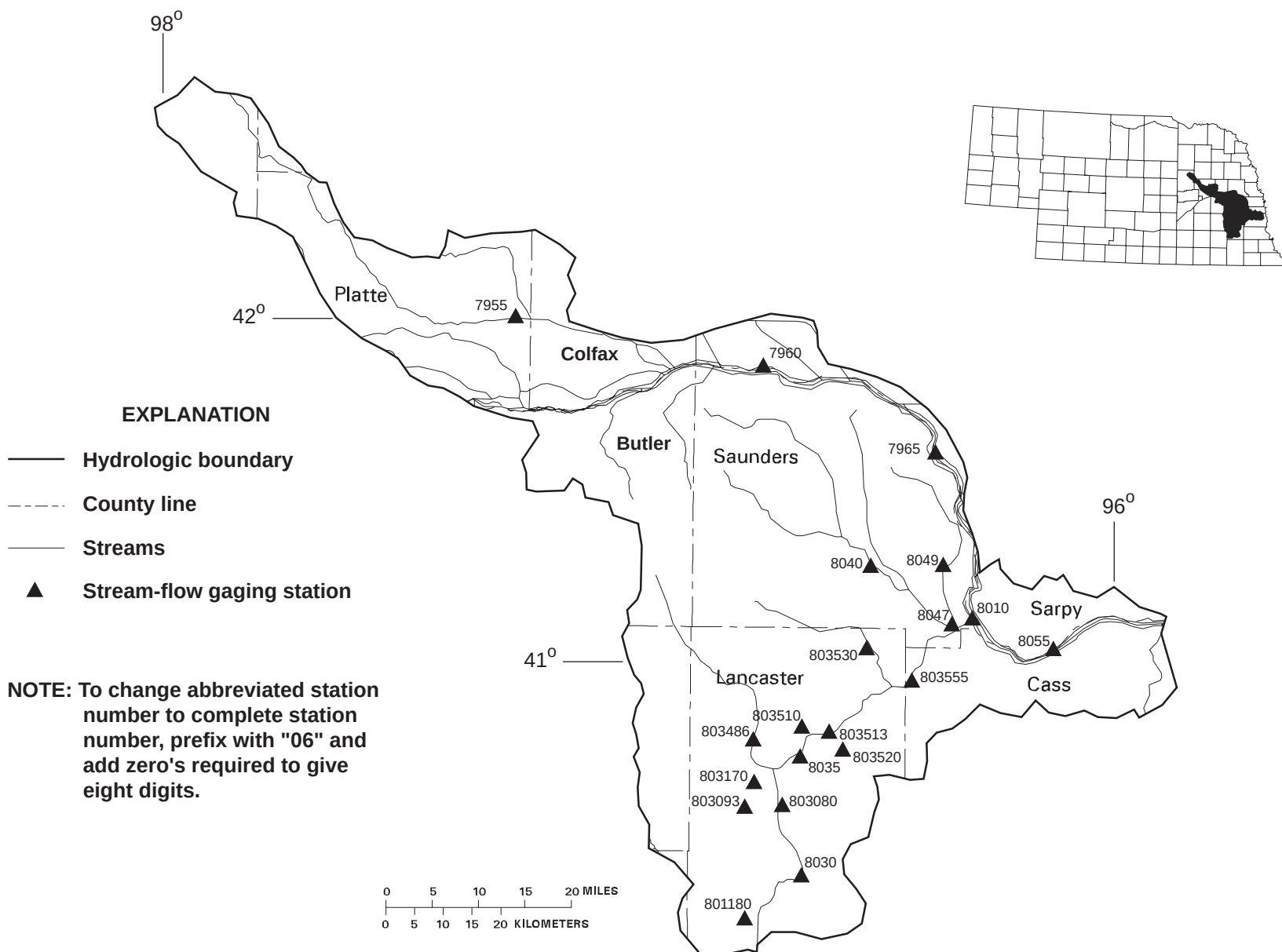


SURFACE-WATER DISCHARGE RECORDS
PLATTE RIVER BASIN
LOWER PLATTE RIVER BASIN



SURFACE-WATER DISCHARGE RECORDS
PLATTE RIVER BASIN
LOWER PLATTTE RIVER BASIN

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*Station number	Station name	Page
7955	Shell Creek near Columbus.....	168
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*NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zeros required to give eight digits.

06795500 SHELL CREEK NEAR COLUMBUS, NE

LOCATION.--Lat 41° 31' 33", long 97° 16' 55", in NE 1/4 NW 1/4 sec. 23, T. 18 N., R. 1 E., Platte County, Hydrologic Unit 10200201, on right bank 10 ft upstream from county road bridge, 1 mi upstream from Loseke Creek, 7 mi northeast of Columbus, and at mile 32.2.

DRAINAGE AREA.--294 mi².

PERIOD OF RECORD.--August 1947 to September 1975, October 1977 to current year.

REVISED RECORDS.--WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,435 ft above sea level. Data collection platform at station.

REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	14	15	e14	e22	e21	16	465	27	21	17	6.5
2	4.2	13	12	e14	e21	e22	16	131	27	19	18	6.6
3	5.3	11	11	e13	e20	e22	16	58	30	17	12	6.1
4	7.9	9.7	14	e14	e21	e19	16	332	30	15	13	6.3
5	8.4	11	14	e15	e19	e17	17	1,400	62	17	15	6.5
6	9.3	10	15	e14	e18	e17	17	559	84	24	18	6.6
7	8.5	11	18	e16	e18	e16	18	192	52	41	11	4.7
8	6.2	12	17	e16	e15	e14	19	104	106	31	11	3.6
9	5.9	10	17	e13	e17	e14	19	321	76	24	9.0	9.2
10	5.6	11	16	e10	e23	e15	21	181	44	50	7.7	14
11	5.2	11	17	e8.0	e23	e17	21	158	36	46	8.2	177
12	4.9	10	16	e8.0	e24	e18	21	126	40	26	10	541
13	5.2	10	16	e9.0	e26	e17	19	57	47	19	3.6	210
14	5.9	10	16	e10	e25	e16	18	121	31	16	6.8	37
15	5.6	11	16	e9.0	e20	e20	18	112	30	17	6.9	21
16	6.4	11	16	e11	e17	19	18	59	28	16	8.0	15
17	6.6	11	16	e9.0	e16	18	18	42	46	15	6.9	12
18	7.1	10	14	e7.0	e23	18	18	37	65	15	8.2	12
19	6.8	11	11	e6.0	e27	18	18	44	46	14	8.9	14
20	6.8	11	e11	e7.0	e33	18	19	47	36	15	9.2	16
21	6.5	9.7	e10	e9.0	e36	18	18	37	27	18	7.8	9.2
22	7.2	11	e9.5	e11	e37	17	17	34	26	14	6.8	6.4
23	6.9	10	e8.3	e13	e34	16	17	34	26	13	5.3	6.2
24	7.4	9.8	e6.6	e11	e26	16	17	36	25	14	6.2	6.1
25	8.0	12	e6.6	e10	e20	16	18	33	24	13	5.7	5.1
26	8.4	13	e7.8	e8.0	e18	15	18	32	28	12	5.9	5.1
27	8.6	17	e9.2	e8.0	e18	16	18	31	37	11	7.7	4.7
28	8.7	14	e9.5	e10	e19	17	17	30	26	12	10	6.6
29	9.4	12	e9.8	e13	---	17	20	29	23	13	6.0	5.8
30	11	11	e8.6	e16	---	17	306	28	22	11	6.5	6.9
31	11	---	e10	e19	---	17	---	28	---	9.9	6.6	---
TOTAL	219.0	338.2	393.9	351.0	636	538	829	4,898	1,207	598.9	282.9	1,187.2
MEAN	7.06	11.3	12.7	11.3	22.7	17.4	27.6	158	40.2	19.3	9.13	39.6
MAX	11	17	18	19	37	22	306	1,400	106	50	18	541
MIN	4.1	9.7	6.6	6.0	15	14	16	28	22	9.9	3.6	3.6
AC-FT	434	671	781	696	1,260	1,070	1,640	9,720	2,390	1,190	561	2,350

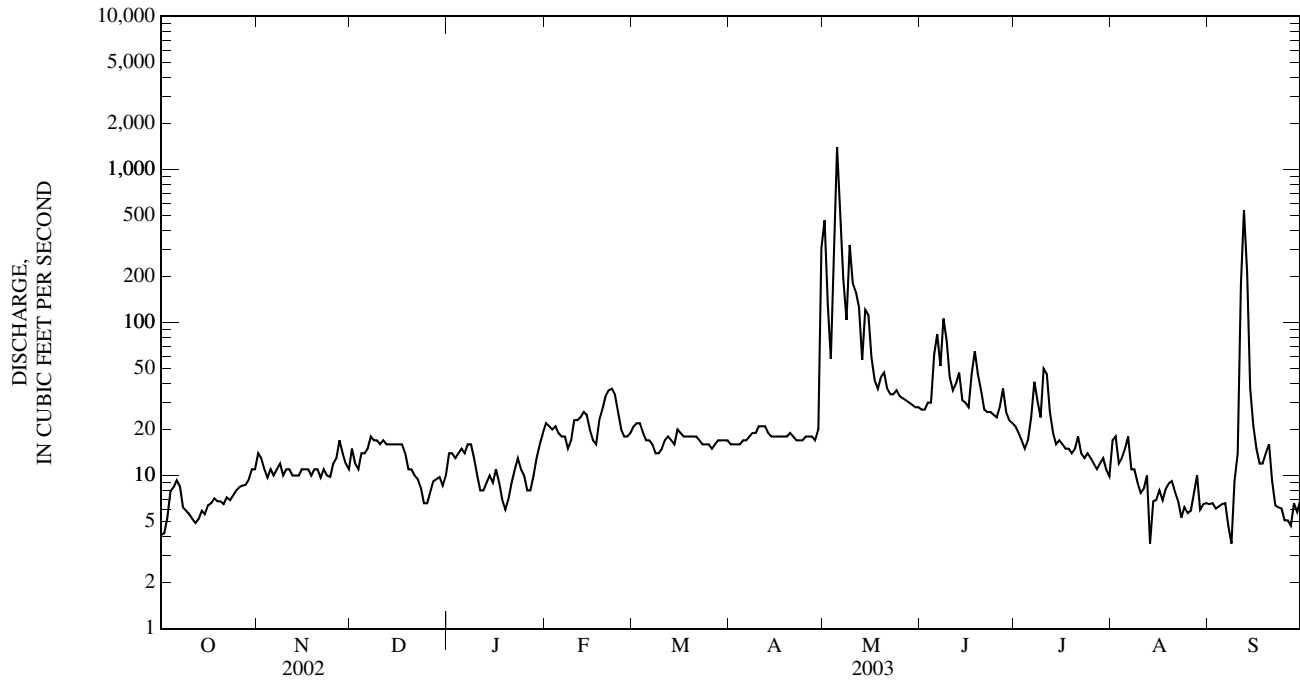
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2003, BY WATER YEAR (WY)

MEAN	17.8	17.9	15.6	18.9	50.5	94.1	42.7	70.2	122	64.5	37.7	24.4
MAX	74.6	62.9	42.2	84.7	322	469	210	552	702	515	202	195
(WY)	(1983)	(1999)	(1994)	(1973)	(1971)	(1993)	(1984)	(1982)	(1990)	(1993)	(1951)	(1989)
MIN	2.90	5.21	5.38	6.03	3.00	13.1	8.14	8.59	9.25	3.77	3.03	3.23
(WY)	(1959)	(1959)	(1981)	(1957)	(1950)	(1981)	(1981)	(1981)	(1980)	(1974)	(1955)	(1980)

06795500 SHELL CREEK NEAR COLUMBUS, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1948 - 2003	
ANNUAL TOTAL	8,547.6		11,479.1		48.0	
ANNUAL MEAN	23.4		31.4		136	
HIGHEST ANNUAL MEAN					13.6	
LOWEST ANNUAL MEAN					4,900	
HIGHEST DAILY MEAN	891	Jun 12	1,400	May 5	0.00	Jun 17, 1990
LOWEST DAILY MEAN	3.1	Sep 11	3.6	Aug 13	0.86	Dec 22, 1989
ANNUAL SEVEN-DAY MINIMUM	3.7	Sep 7	5.5	Oct 9	8,000	Jul 22, 1954
MAXIMUM PEAK FLOW			1,600	May 5	22.76	Jun 17, 1990
MAXIMUM PEAK STAGE			16.06	May 5	34,770	Jun 17, 1990
ANNUAL RUNOFF (AC-FT)	16,950		22,770		66	
10 PERCENT EXCEEDS	31		40		17	
50 PERCENT EXCEEDS	16		16		6.1	
90 PERCENT EXCEEDS	5.3		6.6			

e Estimated.



06796000 PLATTE RIVER AT NORTH BEND, NE

LOCATION.--Lat 41° 27' 10", long 96° 45' 50", in SE $\frac{1}{4}$ sec. 7., T. 17 N., R. 6 E., Douglas County, Hydrologic Unit 10200202, on left bank 80 ft upstream from bridge on State Highway 79, 1 mi south of North Bend, 5 mi downstream from Shell Creek, and at mile 73.0.

DRAINAGE AREA.--70,400 mi², of which about 57,800 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--April 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,262.32 ft above sea level. Prior to Sept. 12, 1951, nonrecording gage and Sept. 12, 1951 to Sept. 30, 1970 water-stage recorder, at present site at datum 2.00 ft higher. Data collection platform at station.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water with-drawals and diversions for irrigation, and return flow from irrigated areas.

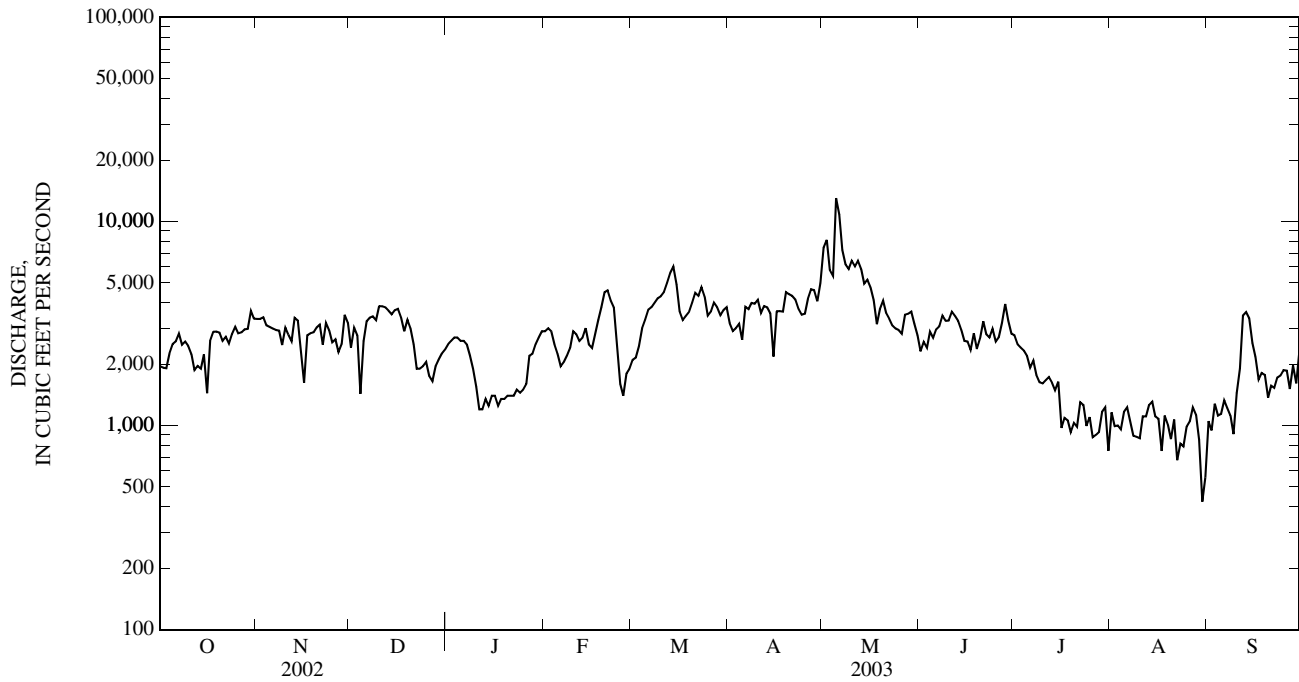
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,950	3,330	2,410	e2,500	e2,900	e2,100	3,180	7,430	2,310	2,770	1,160	1,050
2	1,920	3,330	3,020	e2,600	e3,000	e2,150	2,910	8,130	2,570	2,500	994	946
3	1,910	3,390	2,770	e2,700	e2,900	e2,450	3,000	5,780	2,400	2,410	1,000	1,280
4	2,260	3,100	1,430	e2,700	e2,500	e3,000	3,150	5,400	2,890	2,330	958	1,120
5	2,510	3,040	2,590	e2,600	e2,250	e3,300	2,630	13,000	2,690	2,200	1,170	1,140
6	2,580	2,990	3,240	e2,600	e1,950	e3,700	3,820	10,800	2,960	1,920	1,230	1,330
7	2,820	2,940	3,380	e2,500	e2,050	e3,800	3,720	7,250	3,070	2,080	1,040	1,220
8	2,490	2,920	3,430	e2,200	e2,200	e4,000	3,990	6,160	3,450	1,770	892	1,120
9	2,580	2,480	3,290	e1,900	e2,400	e4,200	3,950	5,850	3,260	1,630	881	908
10	2,460	3,020	3,850	e1,550	e2,900	e4,300	4,130	6,410	3,270	1,610	866	1,440
11	2,240	2,790	3,840	e1,200	e2,800	e4,500	3,560	6,020	3,610	1,670	1,110	1,900
12	1,870	2,590	3,790	e1,200	e2,600	e5,000	3,850	6,420	3,440	1,730	1,110	3,460
13	1,960	3,370	3,660	e1,350	e2,700	e5,600	3,790	5,850	3,260	1,620	1,260	3,600
14	1,900	3,270	3,510	e1,250	e3,000	e6,000	3,550	4,950	2,940	1,490	1,310	3,360
15	2,230	2,270	3,670	e1,400	e2,500	4,910	2,180	5,180	2,600	1,640	1,110	2,540
16	1,440	1,620	3,730	e1,400	e2,400	3,630	3,630	4,770	2,580	974	1,080	2,170
17	2,600	2,770	3,390	e1,250	e2,800	3,290	3,640	4,120	2,350	1,090	751	1,680
18	2,880	2,830	e2,900	e1,350	e3,300	3,440	3,620	3,140	2,830	1,060	1,120	1,810
19	2,890	2,860	e3,300	e1,350	e3,800	3,600	4,500	3,720	2,370	927	1,010	1,770
20	2,850	3,020	e3,000	e1,400	e4,500	4,000	4,400	4,090	2,670	1,030	859	1,370
21	2,600	3,120	e2,500	e1,400	e4,600	4,470	4,320	3,560	3,240	986	1,070	1,570
22	2,720	2,490	e1,900	e1,400	e4,100	4,320	4,140	3,330	2,800	1,300	677	1,530
23	2,520	3,190	e1,900	e1,500	e3,800	4,760	3,720	3,090	2,700	1,260	815	1,720
24	2,810	2,930	e1,950	e1,450	e2,400	4,270	3,490	2,990	2,980	996	790	1,760
25	3,050	2,560	e2,050	e1,500	e1,600	3,450	3,530	2,940	2,580	1,100	989	1,870
26	2,830	2,650	e1,750	e1,600	e1,400	3,620	4,170	2,820	2,710	875	1,050	1,860
27	2,860	2,290	e1,650	e2,200	e1,800	4,000	4,650	3,490	3,190	899	1,230	1,510
28	2,960	2,510	e1,950	e2,250	e1,900	3,800	4,610	3,530	3,940	930	1,130	1,970
29	2,980	3,490	e2,100	e2,500	---	3,480	4,060	3,620	3,270	1,170	851	1,610
30	3,650	3,190	e2,250	e2,700	---	3,680	4,990	3,160	2,820	1,230	424	2,290
31	3,340	---	e2,350	e2,900	---	3,800	---	2,770	---	753	558	---
TOTAL	78,660	86,350	86,550	58,400	77,050	120,620	112,880	159,770	87,750	45,950	30,495	52,904
MEAN	2,537	2,878	2,792	1,884	2,752	3,891	3,763	5,154	2,925	1,482	984	1,763
MAX	3,650	3,490	3,850	2,900	4,600	6,000	4,990	13,000	3,940	2,770	1,310	3,600
MIN	1,440	1,620	1,430	1,200	1,400	2,100	2,180	2,770	2,310	753	424	908
AC-FT	156,000	171,300	171,700	115,800	152,800	239,200	223,900	316,900	174,100	91,140	60,490	104,900
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2003, BY WATER YEAR (WY)												
MEAN	3,819	4,170	3,607	3,454	5,277	7,325	6,076	5,939	6,555	3,654	2,494	3,060
MAX	10,130	9,462	8,581	7,361	11,850	16,870	19,400	21,770	25,340	17,070	8,021	9,022
(WY)	(1974)	(1985)	(1985)	(1984)	(1984)	(1993)	(1984)	(1984)	(1983)	(1993)	(1983)	(1986)
MIN	1,624	1,938	1,413	1,206	2,689	3,685	2,881	1,952	1,932	381	442	936
(WY)	(1980)	(1956)	(1956)	(1957)	(1979)	(1957)	(1967)	(1955)	(1981)	(1974)	(1955)	(1955)

06796000 PLATTE RIVER AT NORTH BEND, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1949 - 2003	
ANNUAL TOTAL	912,676		997,379		4,602	
ANNUAL MEAN	2,500		2,733		10,070	
HIGHEST ANNUAL MEAN					2,168	
LOWEST ANNUAL MEAN					82,300	
HIGHEST DAILY MEAN	7,800	Mar 14	13,000	May 5	1984	1956
LOWEST DAILY MEAN	302	Aug 2	424	Aug 30	Mar 10, 1993	Jul 29, 1974
ANNUAL SEVEN-DAY MINIMUM	510	Jul 30	884	Aug 27	Jul 24, 1974	Mar 29, 1960
MAXIMUM PEAK FLOW			*15,500	May 5	***112,000	Mar 19, 1978
MAXIMUM PEAK STAGE			***6.88	Mar 7	***15.55	
ANNUAL RUNOFF (AC-FT)	1,810,000		1,978,000		3,334,000	
10 PERCENT EXCEEDS	4,000		4,150		8,290	
50 PERCENT EXCEEDS	2,520		2,650		3,730	
90 PERCENT EXCEEDS	792		1,110		1,420	

e Estimated.
 * Stage 5.80 ft.
 ** Stage 10.04 ft.
 *** Backwater from ice.



06796500 PLATTE RIVER NEAR LESHARA, NE

LOCATION.--Lat 41° 19'12", long 96° 24'14", in NW $\frac{1}{4}$ sec.34, T.16 N., R.9 E., Douglas County, Hydrologic Unit 10200202, on left bank 25 ft downstream from bridge on Nebraska Highway 64, 1.0 mi southeast of Leshara, NE.

PERIOD OF RECORD.--June 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,143.86 ft above sea level. Data collection platform at station.

REMARKS.--Records good except for those for December through March, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,920	3,390	2,310	e2,600	e3,100	e2,400	3,850	7,080	3,160	4,100	792	e400
2	1,870	3,240	2,840	e2,800	e3,200	e2,400	3,320	9,430	2,520	4,410	1,110	872
3	1,980	3,610	3,580	e2,800	e3,200	e3,100	3,040	6,920	2,500	3,520	921	814
4	2,470	3,110	2,220	e2,800	e2,800	e3,500	2,910	6,100	3,400	3,170	956	1,110
5	2,580	3,510	816	e2,800	e2,400	e3,600	3,070	11,500	3,100	3,500	956	996
6	2,720	2,800	3,000	e2,700	e2,150	e4,100	2,780	14,000	3,570	2,880	1,220	998
7	2,930	3,260	3,480	e2,700	e2,250	e4,200	4,010	9,230	3,830	2,280	1,260	1,250
8	3,240	3,170	3,300	e2,500	e2,200	e4,400	3,900	6,910	4,200	2,120	1,050	1,060
9	2,950	3,150	2,990	e2,100	e2,600	e4,600	3,450	6,460	4,200	1,860	911	1,150
10	3,120	2,760	3,320	e1,800	e3,200	e4,800	3,870	6,890	4,150	1,660	930	1,050
11	2,950	2,860	3,790	e1,350	e3,000	e4,800	3,280	6,590	4,630	1,740	917	2,170
12	2,480	2,540	3,610	e1,350	e2,800	e5,600	3,190	6,900	4,670	1,670	1,180	3,030
13	2,310	2,920	3,790	e1,550	e2,800	e6,000	3,270	6,680	4,180	2,000	1,260	4,440
14	2,180	3,320	3,790	e1,500	e3,200	e6,400	3,180	5,570	4,660	1,740	1,330	4,860
15	2,210	3,320	3,830	e1,600	e2,700	e7,600	2,270	5,810	3,700	1,820	1,480	3,600
16	2,550	1,700	3,780	e1,500	e2,600	4,240	2,550	5,670	3,940	1,890	1,190	2,660
17	1,790	2,100	3,500	e1,450	e3,100	3,210	3,030	4,820	3,360	1,280	1,190	2,360
18	3,250	2,870	3,270	e1,500	e3,600	3,420	3,000	4,030	4,440	1,390	861	2,090
19	3,240	2,990	3,750	e1,500	e4,200	3,330	3,510	3,850	3,530	1,080	1,340	2,160
20	3,010	2,940	e3,600	e1,500	e4,900	4,000	4,160	4,700	3,120	943	1,090	2,090
21	2,990	3,430	e2,900	e1,500	e5,000	4,170	3,980	4,870	3,330	1,030	893	1,740
22	3,010	2,780	e2,200	e1,550	e4,500	4,900	4,040	4,380	3,700	880	1,100	2,040
23	2,780	3,360	e2,050	e1,700	e4,000	3,930	3,620	4,400	3,470	1,430	747	2,100
24	2,920	2,950	e2,100	e1,600	e2,800	4,380	3,320	4,170	3,170	1,020	811	1,960
25	3,290	2,720	e2,200	e1,700	e1,850	3,280	3,240	4,090	4,160	915	806	2,080
26	3,520	3,200	e1,850	e1,750	e1,650	3,060	3,400	3,920	2,790	1,150	959	2,250
27	3,100	2,650	e1,850	e2,400	e2,100	3,360	4,600	4,090	3,180	829	1,010	2,030
28	3,140	2,430	e2,200	e2,500	e2,200	3,710	4,180	4,810	5,030	893	1,150	2,010
29	3,280	3,130	e2,250	e2,800	---	3,610	4,310	4,390	6,060	985	1,050	2,330
30	3,440	3,830	e2,450	e2,900	---	3,560	4,210	4,390	4,870	1,090	731	2,250
31	3,870	---	e2,500	e3,100	---	4,110	---	3,270	---	1,210	e330	---
TOTAL	87,090	90,040	89,116	63,900	84,100	127,770	104,540	185,920	114,620	56,485	31,531	59,950
MEAN	2,809	3,001	2,875	2,061	3,004	4,122	3,485	5,997	3,821	1,822	1,017	1,998
MAX	3,870	3,830	3,830	3,100	5,000	7,600	4,600	14,000	6,060	4,410	1,480	4,860
MIN	1,790	1,700	816	1,350	1,650	2,400	2,270	3,270	2,500	829	330	400
AC-FT	172,700	178,600	176,800	126,700	166,800	253,400	207,400	368,800	227,300	112,000	62,540	118,900
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2003, BY WATER YEAR (WY)												
MEAN	4,746	5,237	4,812	4,487	6,077	6,208	6,926	7,023	8,080	4,424	3,542	3,695
MAX	6,733	7,784	6,762	7,552	10,040	7,960	11,300	10,650	17,460	10,540	7,163	6,793
(WY)	(1998)	(1998)	(1998)	(1998)	(1997)	(1998)	(1998)	(1995)	(1995)	(1995)	(1996)	(1996)
MIN	2,809	3,001	2,835	2,061	2,984	4,079	3,485	3,393	2,446	595	948	1,710
(WY)	(2003)	(2003)	(2001)	(2003)	(2002)	(2002)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)

06796500 PLATTE RIVER NEAR LESHARA, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1994 - 2003	
ANNUAL TOTAL	949,064		1,095,062		5,424	
ANNUAL MEAN	2,600		3,000		7,444	
HIGHEST ANNUAL MEAN					2,722	
LOWEST ANNUAL MEAN					29,600	
HIGHEST DAILY MEAN	8,220	Mar 14	14,000	May 6	29,600	Jun 28, 1999
LOWEST DAILY MEAN	257	Aug 3	330	Aug 31	257	Aug 3, 2002
ANNUAL SEVEN-DAY MINIMUM	458	Jul 31	750	Aug 30	458	Jul 31, 2002
MAXIMUM PEAK FLOW			*21,100	May 5	**32,600	Jun 2, 1999
MAXIMUM PEAK STAGE			***6.64	Feb 22	***11.84	Feb 9, 1996
ANNUAL RUNOFF (AC-FT)	1,882,000		2,172,000		3,929,000	
10 PERCENT EXCEEDS	3,990		4,610		9,000	
50 PERCENT EXCEEDS	2,760		2,950		4,970	
90 PERCENT EXCEEDS	699		1,090		2,000	

e Estimated.
 * Stage 6.52 ft.
 ** Stage 7.47 ft.
 *** Backwater from ice.

