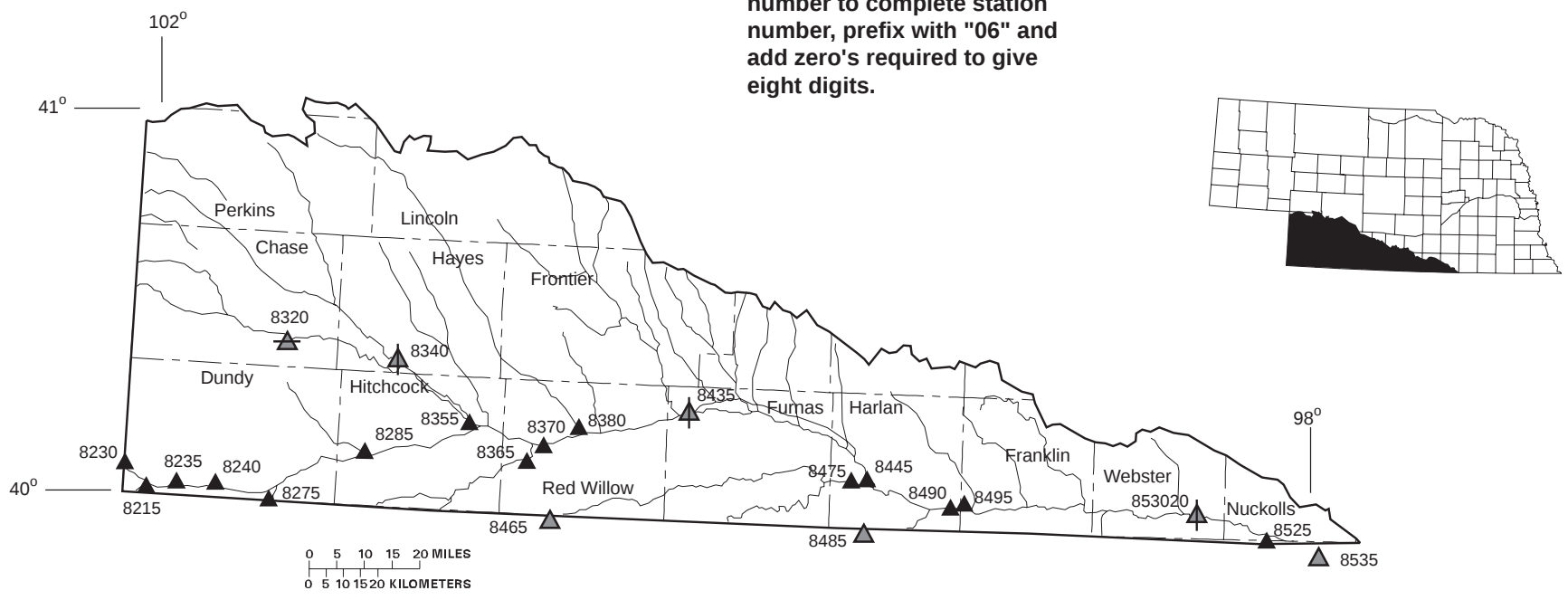


EXPLANATION

- | | |
|------------------------------|---|
| —— Hydrologic boundary | ▲ Reservoir station |
| ----- County line | ▲ Gaging station run by neighboring state |
| —— Streams | ▲ Gaging station run by the Department of Natural Resources |
| ▲ Stream-flow gaging station | |

NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zero's required to give eight digits.



SURFACE-WATER DISCHARGE RECORDS
KANSAS RIVER BASIN
REPUBLICAN RIVER BASIN

291

*Station number	Station name	Page
8215	Arikaree River at Haigler.....	292
8230	N.F. Republican River at Colorado-Nebraska State Line.....	294
8235	Buffalo Creek near Haigler.....	296
8240	Rock Creek at Parks.....	298
8275	South Fork Republican River near Benkelman.....	300
8285	Republican River at Stratton.....	302
8320	Enders Reservoir near Enders.....	304
8340	Frenchman Creek at Palisade.....	306
8355	Frenchman Creek at Culbertson.....	308
8365	Driftwood Creek near McCook.....	310
8370	Republican River at McCook.....	312
8380	Red Willow Creek near Red Willow.....	314
8435	Republican River at Cambridge.....	316
8445	Republican River near Orleans.....	318
8465	Beaver Creek at Cedar Bluffs, KS.....	320
8475	Sappa Creek near Stamford.....	322
8485	Prairie Dog Creek near Woodruff, KS.....	324
8490	Harlan County Lake near Republican City.....	326
8495	Republican River below Harlan County Dam.....	336
8525	Courtland Canal at Nebraska-Kansas State Line.....	338
853020	Republican River at Guide Rock.....	340
8535	Republican River near Hardy.....	342

*NOTE: To change abbreviated station number to complete station number, prefix with "06" and add zeros required to give eight digits.

06821500 ARIKAREE RIVER AT HAIGLER, NE

LOCATION.--Lat 40°01'45", long 101°58'10", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.29, T.1 N., R.41 W., Dundy County, Hydrologic Unit 10250001, on right bank at downstream side of bridge on U.S. Highway 34, 1.3 mi upstream from Burlington Northern Inc. bridge, 1.9 mi upstream from confluence with North Fork Republican River, 2 mi northwest of Haigler, and 3.2 mi downstream from Kansas-Nebraska state line.

DRAINAGE AREA.--1,700 mi², of which about 1,020 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1919: 1951, 1954, 1956, 1960. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 3,250.98 ft above sea level. See WSP 1919 for history of changes prior to Sept. 29, 1964. Sept. 29, 1964 to Apr. 25, 1982 on left bank 57 ft downstream from bridge at present datum. Data collection platform at station.

REMARKS.--Record fair except for daily discharges greater than 10 ft³/s, which are poor. Natural flow affected by ground-water withdrawals and diversions for irrigation of about 1,500 acres in Colorado and by return flow from Haigler Canal.

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	0.00	7.1	0.00	0.00	0.00	0.00	0.09	4.6	4.6	2.9	0.00	0.00
2	0.00	4.4	0.00	0.00	0.00	0.00	0.09	6.9	4.3	2.3	0.00	0.00
3	0.00	0.32	0.00	0.00	0.00	0.01	0.02	7.7	3.6	1.7	0.00	0.00
4	0.00	0.02	0.00	0.00	0.00	0.00	0.00	5.9	3.8	1.1	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.7	4.7	0.74	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.34	6.0	6.1	0.48	0.00	0.00
7	0.15	0.00	0.00	0.00	0.00	0.00	0.31	4.5	6.1	1.1	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.75	4.6	5.2	1.3	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	1.1	4.8	5.0	0.70	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.53	7.5	3.0	1.2	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.27	13	3.8	0.96	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.06	12	4.5	0.41	0.00	0.00
13	1.6	0.00	0.00	0.00	0.00	0.00	0.06	6.5	6.8	0.04	0.00	0.00
14	0.56	0.00	0.00	0.00	0.00	0.00	0.02	4.4	4.4	0.42	0.00	0.00
15	2.2	0.00	0.00	0.00	0.00	0.00	6.5	3.5	2.7	0.00	0.00	0.00
16	6.1	0.00	0.00	0.00	0.00	0.00	15	7.4	4.6	0.00	0.00	0.00
17	6.3	0.00	0.00	0.00	0.00	0.00	15	11	5.2	0.08	0.00	0.00
18	0.19	0.00	0.00	0.00	0.00	0.39	14	6.5	4.6	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	3.0	11	3.3	4.9	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.65	11	9.3	4.7	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.28	9.6	7.5	4.1	0.00	0.00	1.0
22	0.00	0.00	0.00	0.00	0.00	0.19	7.9	6.4	3.0	0.00	0.00	1.5
23	0.00	0.00	0.00	0.00	0.00	0.15	7.9	7.6	3.0	0.00	0.00	0.98
24	0.00	0.00	0.00	0.00	0.00	0.11	9.4	6.9	3.0	0.00	0.00	1.5
25	0.00	0.00	0.00	0.00	0.00	0.09	8.1	7.3	3.4	0.00	0.00	2.0
26	0.00	0.00	0.00	0.00	0.00	0.11	3.7	7.0	2.9	0.00	0.00	1.9
27	0.01	0.00	0.00	0.00	0.00	0.13	3.6	6.7	3.6	0.00	0.00	0.49
28	0.11	0.00	0.00	0.00	0.00	0.09	4.1	6.0	4.1	0.00	0.00	0.33
29	1.1	0.00	0.00	0.00	---	0.03	6.6	4.6	4.7	0.00	0.00	2.7
30	3.3	0.00	0.00	0.00	---	0.04	8.1	4.6	5.6	0.00	0.00	2.9
31	5.1	---	0.00	0.00	---	0.08	---	5.7	---	0.00	0.00	---
TOTAL	26.72	11.84	0.00	0.00	0.00	5.35	145.14	206.4	130.0	15.43	0.00	15.30
MEAN	0.86	0.39	0.000	0.000	0.000	0.17	4.84	6.66	4.33	0.50	0.000	0.51
MAX	6.3	7.1	0.00	0.00	0.00	3.0	15	13	6.8	2.9	0.00	2.9
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.3	2.7	0.00	0.00	0.00
AC-FT	53	23	0.00	0.00	0.00	11	288	409	258	31	0.00	30

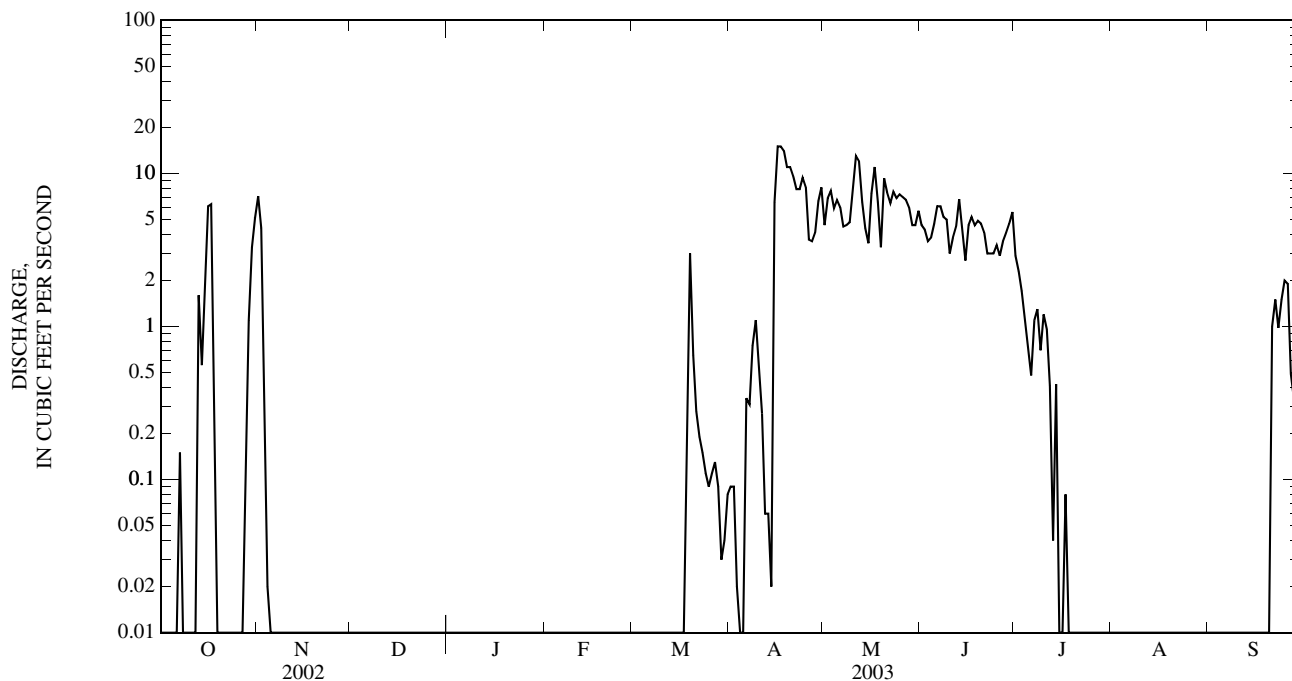
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2003, BY WATER YEAR (WY)

MEAN	9.53	7.84	6.20	7.35	15.0	26.8	22.2	39.0	38.3	18.9	17.8	14.5
MAX	39.8	31.8	28.3	24.0	67.0	400	78.0	709	599	193	111	140
(WY)	(1943)	(1947)	(1939)	(1934)	(1937)	(1960)	(1944)	(1935)	(1935)	(1962)	(1938)	(1938)
MIN	0.75	0.000	0.000	0.000	0.000	0.17	1.00	0.99	0.066	0.000	0.000	0.000
(WY)	(2002)	(2002)	(2002)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(1952)	(2002)

06821500 ARIKAREE RIVER AT HAIGLER, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1932 - 2003	
ANNUAL TOTAL	116.52		556.18		18.6	
ANNUAL MEAN	0.32		1.52		127	
HIGHEST ANNUAL MEAN					0.28	
LOWEST ANNUAL MEAN					17,000	
HIGHEST DAILY MEAN	8.0	May 25	15	Apr 16	0.00	May 31, 1935
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jul 21, 1932
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 19	0.00	Jul 30, 1934
MAXIMUM PEAK FLOW			22	Apr 16	50,000	May 31, 1935
MAXIMUM PEAK STAGE			5.73	Apr 16	*11.20	May 31, 1935
ANNUAL RUNOFF (AC-FT)	231		1,100		13,460	
10 PERCENT EXCEEDS	0.37		6.1		30	
50 PERCENT EXCEEDS	0.00		0.00		8.0	
90 PERCENT EXCEEDS	0.00		0.00		0.50	

* Site and datum then in use.



06823000 NORTH FORK REPUBLICAN RIVER AT COLORADO-NEBRASKA STATE LINE

LOCATION.--Lat 40° 04' 10", long 102° 03' 05", in SE 1/4 NW 1/4 sec. 10, T.1 N., R.42 W., Dundy County, Nebraska, Hydrologic Unit 10250002, on right bank 100 ft east of Colorado-Nebraska State line, 9.5 mi upstream from confluence with Arikaree River, and at mile 448.

DRAINAGE AREA.--2,370 mi², of which about 174 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--October 1930 to current year. Prior to October 1932, published as North Fork of Arikaree River at Colorado-Nebraska State line. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1240: 1947(M). WSP 1390: 1934. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Steel piling control since January 1965. Datum of gage is 3,336.09 ft above sea level. Prior to Oct. 17, 1934, nonrecording gage at present site and datum. Data Collection platform at station.

REMARKS.--Records fair. Natural flow affected by diversion in Haigler Canal for irrigation of about 2,700 acres in Colorado and Nebraska.

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	10	19	42	43	43	43	45	24	12	9.1	5.8	7.4
2	13	21	42	43	43	43	46	11	12	8.6	6.3	4.4
3	15	24	42	43	43	43	45	11	11	9.6	5.1	4.9
4	15	23	41	44	43	43	45	10	11	8.6	5.3	4.8
5	14	19	42	45	43	44	46	9.2	10	9.0	4.5	4.0
6	14	16	41	44	44	43	50	9.0	8.8	8.5	4.1	4.2
7	14	13	42	44	e45	43	53	9.0	9.2	7.6	4.5	5.4
8	12	13	42	44	e46	43	53	8.8	8.0	7.0	4.4	8.8
9	12	20	41	42	47	43	54	8.8	7.5	6.9	4.0	8.8
10	12	27	42	41	48	43	53	10	7.0	5.9	3.8	9.5
11	12	31	42	41	48	43	52	11	7.0	5.0	3.7	7.3
12	9.8	34	41	40	48	43	51	9.1	6.9	4.5	3.4	7.4
13	9.6	36	41	39	48	42	50	9.5	9.4	4.8	3.0	7.4
14	8.2	39	42	38	48	42	43	9.2	16	4.8	3.2	8.4
15	8.0	43	42	38	48	42	17	9.1	16	4.4	2.7	7.0
16	8.0	45	42	e39	48	42	15	9.1	10	5.5	2.1	6.7
17	8.0	45	40	e40	48	41	14	9.8	11	4.5	2.7	9.7
18	10	44	41	e42	46	42	15	20	11	3.6	5.0	7.1
19	13	43	40	43	46	58	13	20	11	3.7	4.9	6.2
20	12	43	40	43	46	59	12	11	10	3.9	7.3	5.5
21	12	43	40	42	47	50	12	10	9.0	3.6	7.5	6.7
22	12	43	40	e42	47	47	11	9.4	8.2	5.2	6.3	11
23	13	44	41	e42	47	46	12	9.1	8.6	4.8	3.2	12
24	14	44	e41	e43	38	45	14	11	8.4	4.1	3.2	12
25	14	43	e42	e43	e40	45	12	13	7.6	3.3	5.5	8.3
26	14	41	e43	43	e42	45	12	13	7.5	3.6	5.8	8.5
27	14	42	e44	42	44	45	11	13	7.0	3.4	5.7	7.3
28	17	42	44	43	44	45	11	11	13	4.4	5.7	6.2
29	17	43	43	43	---	45	19	11	13	3.4	6.5	8.9
30	22	44	43	43	---	45	60	11	11	5.8	7.1	8.3
31	23	---	43	42	---	45	---	11	---	6.9	7.5	---
TOTAL	401.6	1,027	1,292	1,304	1,268	1,388	946	351.1	298.1	174.0	149.8	224.1
MEAN	13.0	34.2	41.7	42.1	45.3	44.8	31.5	11.3	9.94	5.61	4.83	7.47
MAX	23	45	44	45	48	59	60	24	16	9.6	7.5	12
MIN	8.0	13	40	38	38	41	11	8.8	6.9	3.3	2.1	4.0
AC-FT	797	2,040	2,560	2,590	2,520	2,750	1,880	696	591	345	297	445

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2003, BY WATER YEAR (WY)

	MEAN	36.0	55.5	59.3	59.1	60.9	63.5	55.8	39.6	33.2	17.9	18.0	25.0
MAX	67.1	83.5	74.7	73.4	76.8	85.8	85.7	104	113	93.8	72.4	128	
(WY)	(1963)	(1957)	(1954)	(1953)	(1960)	(1960)	(1980)	(1951)	(1962)	(1962)	(1950)	(1951)	
MIN	11.1	27.0	34.4	39.4	35.2	41.7	21.3	7.24	5.80	3.76	4.12	5.78	
(WY)	(1979)	(1989)	(2002)	(1979)	(2002)	(2002)	(1999)	(2000)	(2002)	(2002)	(1940)	(1978)	

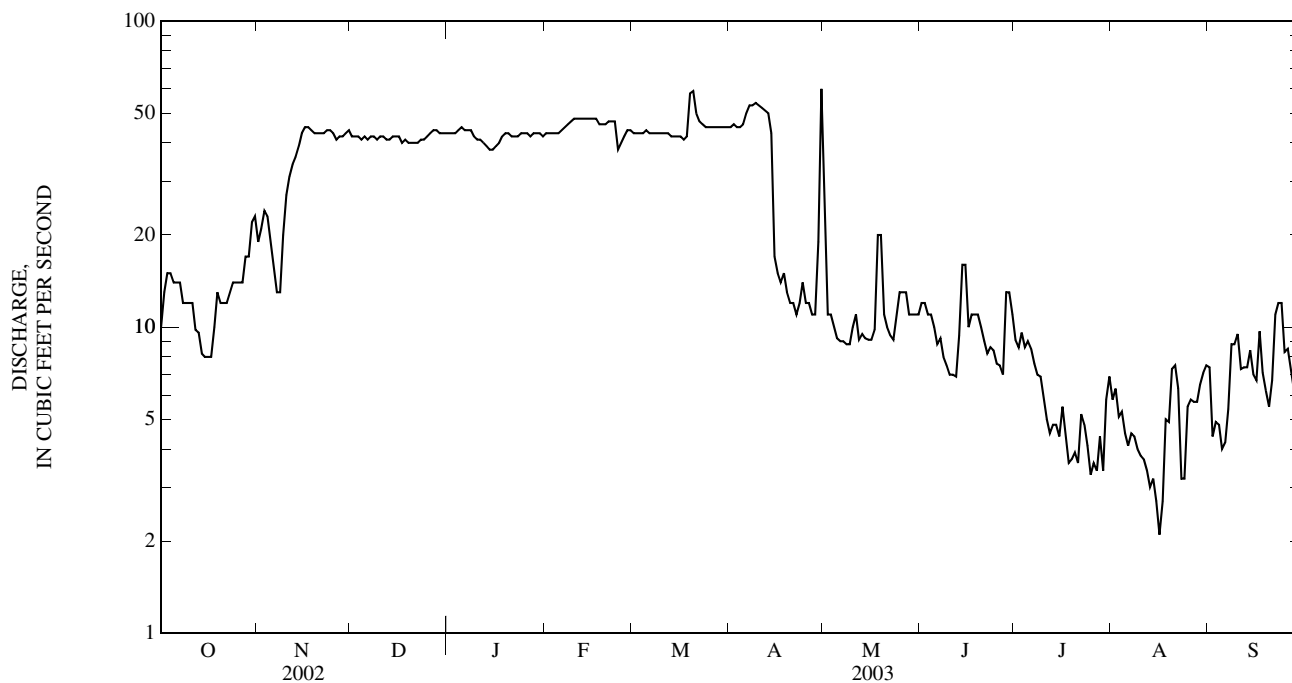
06823000 NORTH FORK REPUBLICAN RIVER AT COLORADO-NEBRASKA STATE LINE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1935 - 2003	
ANNUAL TOTAL	8,017.4		8,823.7		43.4	
ANNUAL MEAN	22.0		24.2		65.3	
HIGHEST ANNUAL MEAN					22.5	
LOWEST ANNUAL MEAN					761	
HIGHEST DAILY MEAN	58	Mar 3	60	Apr 30	2,110	May 15, 1951
LOWEST DAILY MEAN	1.9	Jul 21	2.1	Aug 16	1.5	Sep 12, 1999
ANNUAL SEVEN-DAY MINIMUM	2.7	Jul 16	3.0	Aug 11	2.3	Aug 5, 1940
MAXIMUM PEAK FLOW			*85	Apr 30	5.92	Apr 28, 1947
MAXIMUM PEAK STAGE			**1.47	Jan 17	5.92	Apr 28, 1947
ANNUAL RUNOFF (AC-FT)	15,900		17,500		31,470	
10 PERCENT EXCEEDS	44		45		72	
50 PERCENT EXCEEDS	13		14		47	
90 PERCENT EXCEEDS	4.3		4.9		8.4	

e Estimated.

* Stage 1.23 ft.

** Backwater from ice.



06823500 BUFFALO CREEK NEAR HAIGLER, NE

LOCATION.--Lat 40° 02'22", long 101° 51'57", in SE 1/4 NW 1/4 sec.20, T.1 N., R.40 W., Dundy County, Hydrologic Unit 10250002, on upstream side of bridge, 0.4 mi upstream from mouth, and 4 mi northeast of Haigler.

DRAINAGE AREA.--172 mi², of which about 8.6 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 2119: 1948-50(M), 1957(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,189.00 ft above sea level. Prior to Sept. 19, 1980, at site 0.5 mi upstream at datum 15.57 ft higher. Sept. 18, 1980 to June 4, 1996 on left bank 15 ft upstream from county highway bridge at datum 0.10 ft lower. June 4, 1996 to Nov. 7, 1996 135 ft downstream from county highway bridge, at datum 0.10 ft lower. Data collection platform at station.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow affected by diversion about 1 mi upstream for irrigation of 880 acres.

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	0.06	3.6	4.4	e3.8	e4.7	5.2	e3.6	6.6	3.0	0.00	0.00	1.2
2	1.0	5.2	4.6	e3.9	e4.7	5.0	e3.4	4.9	3.1	0.00	0.00	0.98
3	1.5	6.5	4.1	e4.2	e4.6	4.9	e3.2	4.8	2.8	0.00	0.00	0.26
4	1.3	6.0	4.1	e4.2	e4.5	5.0	e3.2	4.5	3.1	0.00	0.00	0.25
5	1.9	5.7	e4.0	e4.2	e4.2	e4.8	e6.8	4.1	2.9	0.00	0.00	2.2
6	0.81	5.6	e4.0	e4.3	e4.0	e4.8	e11	4.0	3.4	0.00	0.00	2.2
7	0.84	5.5	4.1	4.6	e3.8	4.7	e10	4.0	3.6	0.00	0.00	2.1
8	1.6	5.6	4.1	4.4	e3.6	4.5	e9.6	4.1	3.9	0.00	0.00	2.2
9	4.0	5.5	4.4	3.8	e3.7	4.5	e9.0	4.1	3.7	0.00	0.00	2.5
10	2.4	5.0	4.9	e3.7	e3.8	5.4	e8.2	4.7	2.9	0.00	0.00	2.6
11	1.2	5.1	5.1	e3.6	e3.9	4.9	e7.0	5.5	4.4	0.00	0.00	2.2
12	0.82	5.0	4.4	e3.6	e3.9	5.4	e6.4	5.3	4.8	0.00	0.00	2.1
13	1.3	5.0	4.4	e3.5	e3.9	4.9	e5.2	4.9	3.8	0.00	0.00	1.9
14	3.2	5.3	4.6	e3.4	e4.0	4.8	e4.4	3.1	3.6	0.00	0.00	1.8
15	1.8	5.1	4.1	e3.4	e4.0	4.6	e8.0	2.4	3.3	0.00	0.00	1.9
16	3.2	4.9	4.1	e3.4	e4.0	4.9	e10	3.4	3.3	0.00	0.00	2.1
17	3.9	4.8	3.8	e3.5	e4.0	5.0	e9.4	4.9	3.3	0.00	0.00	2.1
18	2.4	4.6	3.6	e3.4	e4.0	8.4	e7.0	4.4	2.2	0.00	0.00	1.7
19	1.1	4.4	3.6	e3.3	e4.0	17	e5.0	4.2	2.6	0.00	0.00	1.8
20	1.3	4.5	e3.6	e3.2	e3.9	6.7	e3.5	4.1	3.0	0.00	0.00	2.0
21	0.86	4.8	e3.5	e3.1	e3.9	e6.2	e3.1	3.8	2.7	0.00	0.00	2.4
22	0.44	4.7	e3.5	e2.9	e3.9	e6.0	e2.7	3.9	3.5	0.00	0.00	1.4
23	0.59	4.5	e3.5	e2.9	e3.9	e5.6	e2.5	4.2	3.3	0.00	0.00	0.59
24	0.97	4.6	e3.6	e3.0	e4.0	e5.4	3.2	4.1	1.9	0.00	0.00	0.04
25	1.4	4.3	e3.7	e3.1	e4.1	e5.2	2.5	3.9	1.4	0.00	0.00	0.14
26	1.2	e4.1	e3.6	e3.4	e4.3	e5.0	2.5	2.1	1.2	0.00	0.00	0.16
27	1.4	e4.0	e3.6	e4.1	e4.7	e5.0	2.4	2.6	1.2	0.00	0.00	0.41
28	1.7	e4.0	e3.7	e4.3	e5.0	e4.6	3.2	3.9	0.85	0.00	0.00	0.45
29	2.3	e4.0	e3.7	e4.5	---	e4.4	5.7	3.7	0.28	0.00	0.00	0.53
30	3.1	4.6	e3.7	e4.6	---	e4.0	7.9	2.8	0.02	0.00	1.1	0.64
31	4.4	---	e3.7	e4.7	---	e3.6	---	2.4	---	0.00	1.5	---
TOTAL	53.99	146.5	123.8	116.0	115.0	170.4	169.6	125.4	83.05	0.00	2.60	42.85
MEAN	1.74	4.88	3.99	3.74	4.11	5.50	5.65	4.05	2.77	0.000	0.084	1.43
MAX	4.4	6.5	5.1	4.7	5.0	17	11	6.6	4.8	0.00	1.5	2.6
MIN	0.06	3.6	3.5	2.9	3.6	3.6	2.4	2.1	0.02	0.00	0.00	0.04
AC-FT	107	291	246	230	228	338	336	249	165	0.00	5.2	85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2003, BY WATER YEAR (WY)

MEAN	6.58	7.78	7.90	8.13	8.69	8.97	8.85	7.57	5.45	2.55	2.39	4.09
MAX	12.6	12.1	13.7	12.7	12.9	14.3	14.2	12.5	13.2	11.0	19.7	15.2
(WY)	(1943)	(1947)	(1946)	(1942)	(1960)	(1952)	(1944)	(1944)	(1962)	(1948)	(1950)	(1951)
MIN	1.74	1.95	3.15	2.68	0.89	2.72	3.72	2.11	0.000	0.000	0.000	0.23
(WY)	(2003)	(2000)	(1999)	(1998)	(1998)	(1998)	(2000)	(1965)	(1994)	(1997)	(2000)	(1998)

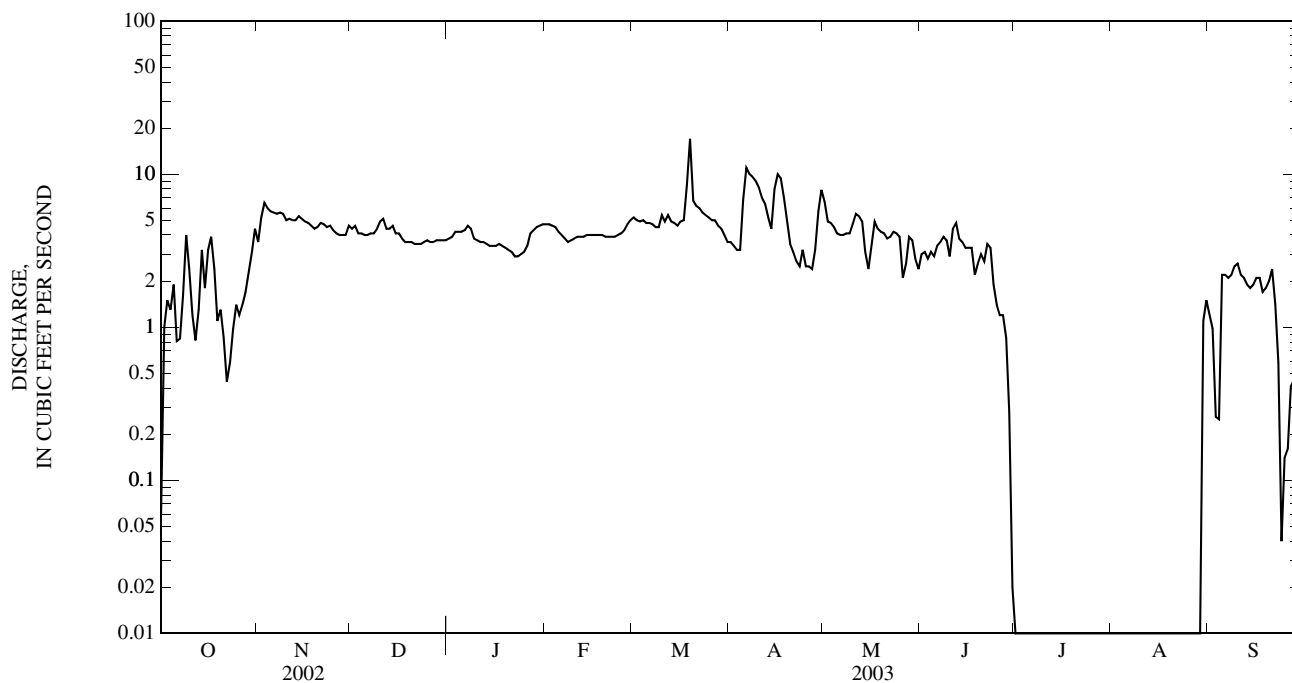
06823500 BUFFALO CREEK NEAR HAIGLER, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1941 - 2003	
ANNUAL TOTAL	1,033.11		1,149.19		6.57	
ANNUAL MEAN	2.83		3.15		10.9	
HIGHEST ANNUAL MEAN					2.51	
LOWEST ANNUAL MEAN					90	
HIGHEST DAILY MEAN	8.2	Jun 26	17	Mar 19	2.51	1951
LOWEST DAILY MEAN	0.00	Jul 2	0.00	Jul 1	0.00	1998
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 7	0.00	Jul 1	0.00	Aug 3, 1955
MAXIMUM PEAK FLOW			33	Mar 19	0.00	Aug 14, 1973
MAXIMUM PEAK STAGE			2.09	Mar 19	*140	Jun 27, 1948
ANNUAL RUNOFF (AC-FT)	2,050		2,280		**5.93	Jan 3, 1976
10 PERCENT EXCEEDS	5.1		5.2		4,760	
50 PERCENT EXCEEDS	3.3		3.6		11	
90 PERCENT EXCEEDS	0.00		0.00		7.1	
					0.20	

e Estimated.

* Stage 4.37 ft.

** Backwater from ice.



06824000 ROCK CREEK AT PARKS, NE

LOCATION.--Lat 40° 02'30", long 101° 43'40", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.21, T.1 N., R.39 W., Dundy County, Hydrologic Unit 10250002, on right bank at west edge of Parks, 100 ft downstream from county road bridge and 0.5 mi upstream from mouth.

DRAINAGE AREA.--23.6 mi², of which about 20 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 1630: 1951(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,093.35 ft above sea level. Data collection platform at station.

REMARKS.--Records fair except for estimated daily discharges and daily discharges for September, which are poor. One diversion about 2 mi above station for irrigation of 215 acres; flow regulated at times by reservoir at State fish hatchery 7 mi upstream.

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	6.5	13	9.6	7.3	5.6	6.0	9.0	14	8.5	7.4	5.2	5.8
2	8.2	14	9.2	7.9	5.0	7.0	8.0	8.9	8.7	7.5	5.8	5.6
3	12	14	8.4	8.0	6.3	7.5	7.7	7.9	8.6	6.8	5.6	5.6
4	6.1	12	8.9	8.3	6.2	7.1	8.2	6.4	9.1	6.0	5.3	5.4
5	4.9	11	10	8.1	5.9	7.2	8.4	5.4	10	5.7	5.1	5.3
6	4.6	11	8.5	7.9	5.8	7.0	10	5.4	9.7	5.8	5.1	5.2
7	4.7	11	8.8	7.9	5.8	5.0	9.7	5.5	10	6.1	4.2	5.0
8	5.6	11	9.2	8.0	e5.8	6.5	10	6.5	9.4	6.1	3.4	4.9
9	5.8	10	9.3	7.6	5.7	6.7	12	7.4	9.1	5.5	3.5	4.9
10	5.0	9.8	9.3	7.2	5.7	6.7	9.5	11	9.3	5.3	3.6	4.8
11	5.1	10	9.5	7.3	5.9	6.7	8.2	13	11	5.5	3.8	4.7
12	5.7	10	9.4	7.4	6.2	6.6	7.6	9.4	11	5.5	3.8	4.6
13	6.0	10	9.6	7.4	6.8	6.2	7.5	8.1	12	5.5	3.8	4.5
14	7.0	11	9.7	7.5	6.7	6.1	6.1	7.4	10	5.5	3.5	4.4
15	7.1	10	9.7	7.5	6.1	6.3	4.6	7.0	8.8	5.4	3.5	4.3
16	7.9	10	9.6	e8.5	6.1	6.3	7.2	9.0	8.2	5.5	3.7	4.3
17	8.7	9.9	9.6	e9.0	6.5	6.4	7.2	8.0	8.3	5.2	3.6	4.2
18	8.5	9.8	9.9	e9.2	7.1	12	6.9	9.0	11	5.0	4.0	4.2
19	8.4	9.7	9.9	9.4	7.6	18	7.2	9.4	9.0	5.4	6.5	4.1
20	9.1	9.7	e9.8	9.2	5.7	14	7.2	8.5	12	5.4	6.0	4.1
21	11	9.6	e10	9.3	e5.8	11	6.7	8.3	8.6	5.2	5.0	4.1
22	9.1	9.7	e10	e9.5	6.0	10	6.7	7.3	7.7	5.2	5.1	4.1
23	11	10	e10	e10	6.7	9.6	8.5	7.6	8.5	5.0	5.0	4.1
24	13	10	e10	e10	6.7	9.3	8.5	7.7	9.1	4.6	4.6	4.1
25	11	9.9	e9.8	10	6.2	9.1	8.6	8.1	8.9	4.4	4.8	4.1
26	9.4	9.5	e9.6	9.6	6.6	9.9	8.1	8.4	7.0	4.4	5.3	4.1
27	9.9	10	e9.4	10	5.9	9.3	7.5	8.5	6.9	4.8	5.5	4.1
28	11	9.6	9.1	10	5.8	9.7	7.5	8.1	7.0	5.1	11	4.1
29	13	9.7	7.7	10	---	9.0	14	7.7	9.6	5.7	9.0	4.1
30	16	11	7.0	9.8	---	9.3	26	7.4	9.1	6.3	6.3	4.1
31	13	---	6.5	6.6	---	9.5	---	8.3	---	5.5	6.1	---
TOTAL	264.3	315.9	287.0	265.4	172.2	261.0	264.3	254.6	276.1	172.3	156.7	136.9
MEAN	8.53	10.5	9.26	8.56	6.15	8.42	8.81	8.21	9.20	5.56	5.05	4.56
MAX	16	14	10	10	7.6	18	26	14	12	7.5	11	5.8
MIN	4.6	9.5	6.5	6.6	5.0	5.0	4.6	5.4	6.9	4.4	3.4	4.1
AC-FT	524	627	569	526	342	518	524	505	548	342	311	272

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2003, BY WATER YEAR (WY)

	MEAN	12.2	13.1	13.0	13.1	13.4	13.5	13.4	13.3	12.8	11.5	11.1	11.4
MAX		16.2	19.7	17.1	17.9	17.5	18.1	18.1	19.0	19.0	30.3	17.7	18.8
(WY)		(1966)	(1943)	(1941)	(1942)	(1949)	(1949)	(1949)	(1969)	(1965)	(1965)	(1950)	(1951)
MIN		6.53	6.53	7.93	8.24	6.15	7.49	7.97	5.90	5.96	5.18	5.05	4.56
(WY)		(2002)	(2000)	(1999)	(1999)	(2003)	(1999)	(2001)	(2000)	(2001)	(2001)	(2003)	(2003)

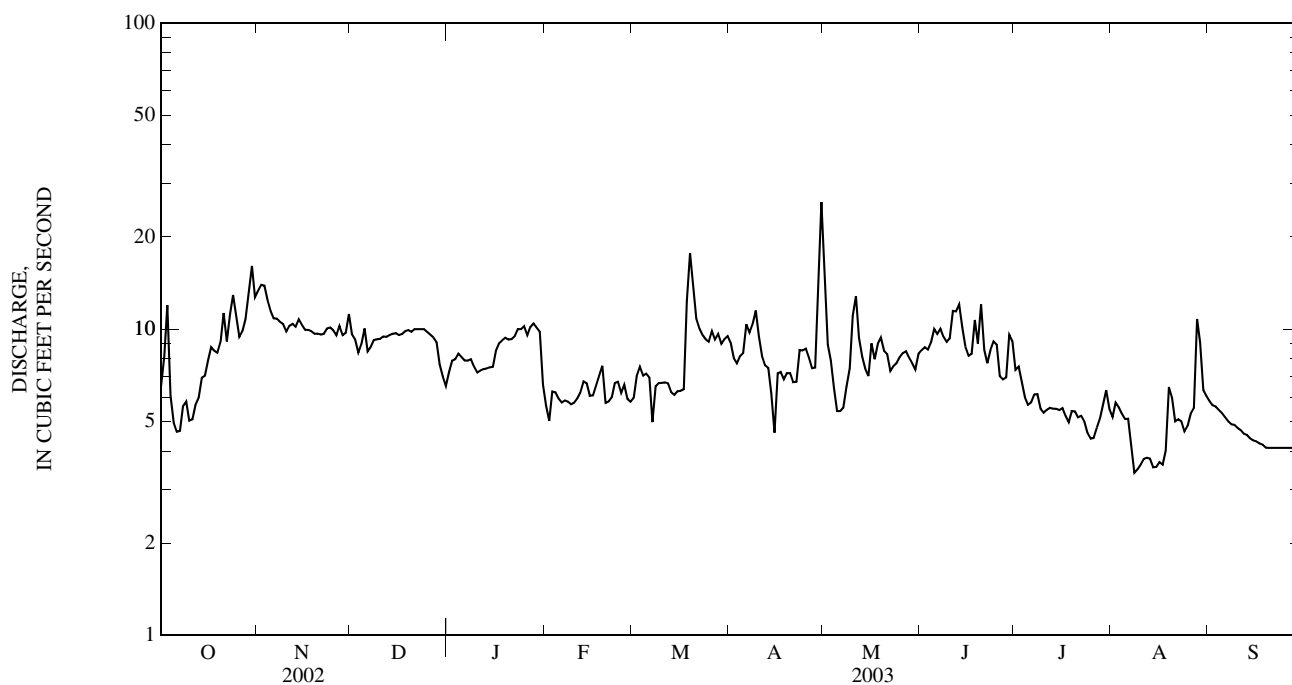
06824000 ROCK CREEK AT PARKS, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1941 - 2003	
ANNUAL TOTAL	3,183.3		2,826.7		12.6	
ANNUAL MEAN	8.72		7.74		15.8	
HIGHEST ANNUAL MEAN					7.57	
LOWEST ANNUAL MEAN					111	
HIGHEST DAILY MEAN	21	Feb 19	26	Apr 30	111	Jul 6, 1965
LOWEST DAILY MEAN	3.4	Sep 8	3.4	Aug 8	2.6	Nov 19, 1975
ANNUAL SEVEN-DAY MINIMUM	4.7	Sep 7	3.6	Aug 8	3.1	Feb 17, 1943
MAXIMUM PEAK FLOW			*35	Apr 30	493	Jul 5, 1965
MAXIMUM PEAK STAGE			**2.61	Feb 21	6.00	Jul 5, 1965
ANNUAL RUNOFF (AC-FT)	6,310		5,610		9,160	
10 PERCENT EXCEEDS	11		10		16	
50 PERCENT EXCEEDS	8.4		7.6		13	
90 PERCENT EXCEEDS	6.1		4.6		8.7	

e Estimated.

* Stage 2.20 ft.

** Backwater from ice.



06827500 SOUTH FORK REPUBLICAN RIVER NEAR BENKELMAN, NE

LOCATION (REVISED).--Lat 40° 00' 34", long 101° 32' 32", in NE 1/4 SW 1/4 sec.31, T.1 N., R.37 W., Dundy County, Hydrologic Unit 10250003, on right bank at downstream side of bridge on State Highway 61, 1 mi downstream from Kansas-Nebraska State line, 2.5 mi southwest of Benkelman, and 3.4 mi upstream from mouth.

DRAINAGE AREA.--2,740 mi², approximately, of which about 2,190 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--October 1894 to September 1895, October 1902 to November 1906, October 1930 to September 1932, August 1937 to current year. Published as South Fork of Republican River at Benkelman prior to 1906 and as Republican River at Benkelman 1931-32. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1310: 1904-6, 1931. WSP 1390: 1940, 1945, 1947. WSP 1919: 1951-52, 1954-56. WSP 2119: Drainage area. WDR NE-97: 1995 (M).

GAGE.--Water-stage recorder. Datum of gage is 2,989.91 ft above sea level. Prior to Dec. 10, 1947, nonrecording gages at several sites within 3.5 mi of present site at various datums. Dec.10, 1947 to Sept. 28, 1966 water-stage recorder 170 ft upstream at datum 3.00 ft higher and Sept. 29, 1966 to Mar. 7, 1968 at site 300 ft upstream at datum 3.00 ft higher. Mar. 8, 1968 to May 29, 1991 at site 300 ft upstream at datum 1.0 ft higher. May 30, 1991 to Sept. 30, 1998 at present site at datum 1.0 ft higher. Data collection platform at station.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow affected by irrigation development above station, and since July 6, 1950, by storage in Bonny Reservoir.

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	0.00	0.00	0.00	0.00	0.00	0.00	10	6.1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	10	8.8	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	9.5	9.6	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	7.9	9.2	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	7.0	7.2	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	11	4.9	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	12	4.4	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	14	4.6	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	16	5.1	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	15	4.8	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	e13	4.5	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	e11	5.9	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	e9.0	5.3	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	e7.0	4.6	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	e5.5	4.8	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	4.9	4.7	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	4.5	4.4	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	4.3	4.5	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.07	4.7	4.5	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	3.9	5.2	4.8	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	5.5	5.3	5.0	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	7.0	4.9	5.3	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	8.0	4.6	4.5	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	8.2	4.4	2.9	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	7.5	4.5	1.6	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	8.1	4.4	0.87	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	9.3	4.5	0.43	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	7.9	4.7	0.18	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	7.5	5.8	0.09	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	8.1	7.7	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	9.3	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	90.37	232.3	133.57	0.00	0.00	0.00	0.00
MEAN	0.000	0.000	0.000	0.000	0.000	2.92	7.74	4.31	0.000	0.000	0.000	0.000
MAX	0.00	0.00	0.00	0.00	0.00	9.3	16	9.6	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	4.3	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	179	461	265	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2003, BY WATER YEAR (WY)

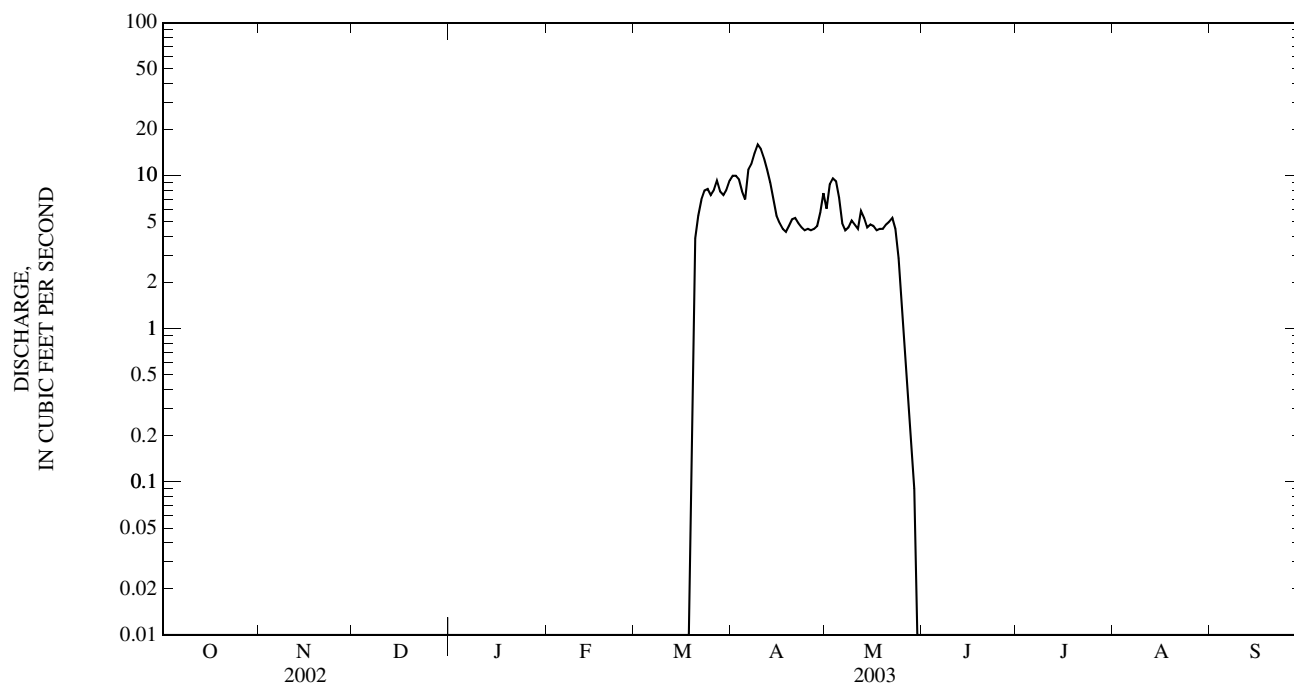
MEAN	15.7	20.6	19.8	22.3	37.9	49.8	54.8	68.5	69.3	54.8	32.8	23.1
MAX	160	113	77.0	77.5	121	227	158	396	455	616	383	335
(WY)	(1966)	(1970)	(1943)	(1943)	(1949)	(1942)	(1958)	(1957)	(1948)	(1946)	(1958)	(1951)
MIN	0.000	0.000	0.000	0.000	0.000	2.92	7.74	1.89	0.000	0.000	0.000	0.000
(WY)	(1940)	(1953)	(1953)	(1977)	(2003)	(2003)	(2003)	(2002)	(2002)	(1943)	(1940)	(1939)

06827500 SOUTH FORK REPUBLICAN RIVER NEAR BENKELMAN, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1938 - 2003	
ANNUAL TOTAL	795.71		456.24		39.1	
ANNUAL MEAN	2.18		1.25		121	
HIGHEST ANNUAL MEAN					1.25	
LOWEST ANNUAL MEAN					6,220	
HIGHEST DAILY MEAN	16	Mar 27	16	Apr 9	Aug 16, 1958	
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00 Jul 3, 1938	
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00 Aug 1, 1938	
MAXIMUM PEAK FLOW			16	Apr 9	19,600 Aug 16, 1958	
MAXIMUM PEAK STAGE			2.18	Apr 9	*8.70 Aug 16, 1958	
ANNUAL RUNOFF (AC-FT)	1,580		905		28,330	
10 PERCENT EXCEEDS	9.5		5.3		84	
50 PERCENT EXCEEDS	0.00		0.00		18	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated.

* May have been higher during flood of June 24, 1945, site and datum then in use.



06828500 REPUBLICAN RIVER AT STRATTON, NE

LOCATION.--Lat 40°08'28", long 101°13'42", in SW 1/4 NW 1/4 sec.13, T.2 N., R.35 W., Hitchcock County, Hydrologic Unit 10250004, on right bank at downstream side of county bridge, 0.5 mi south of Stratton, 0.2 mi downstream from Muddy Creek, 10 mi upstream from Trenton Dam, 19 mi downstream from South Fork Republican River, and at mile 387.

DRAINAGE AREA.--8,200 mi², approximately, of which about 3,690 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--July 1950 to current year.

REVISED RECORDS.--WDR NE-73: 1968-71(M), 1972. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,775.49 ft above sea level. Prior to Aug. 1, 1967, at site 0.3 mi downstream at present datum. Data collection platform at station.

REMARKS.--Records fair except for estimated daily discharges and daily discharges less than 7.0 ft³/s, which are poor. Natural flow affected by irrigation development above station and by storage in Bonny Reservoir (station 06826000).

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	0.00	0.00	0.00	e37	e23	e51	42	77	17	0.00	0.00	0.00
2	0.00	0.00	0.00	e37	e21	e56	43	84	20	0.00	0.00	0.00
3	0.00	0.00	0.00	e38	e17	57	43	89	16	0.00	0.00	0.00
4	0.00	0.00	0.00	e41	e15	57	41	68	17	0.00	0.00	0.00
5	0.00	0.00	0.00	e42	e15	e52	40	56	22	0.00	0.00	0.00
6	0.00	0.00	0.74	e43	e16	e54	48	48	21	0.00	0.00	0.00
7	0.00	0.00	18	e44	e20	72	57	43	21	0.00	0.00	0.00
8	0.00	0.00	21	e44	e23	65	58	43	19	0.00	0.00	0.00
9	0.00	0.00	22	e42	e25	86	61	37	16	0.00	0.00	0.00
10	0.00	0.00	24	e41	e27	114	62	36	13	0.00	0.00	0.00
11	0.00	0.00	27	e41	e29	109	61	38	11	0.00	0.00	0.00
12	0.00	0.00	34	e43	e30	87	56	38	11	0.00	0.00	0.00
13	0.00	0.00	34	e45	e30	45	52	37	11	0.00	0.00	0.00
14	0.00	0.00	39	e45	29	49	50	35	11	0.00	0.00	0.00
15	0.00	0.00	45	e44	e22	49	49	36	12	0.00	0.00	0.00
16	0.00	0.00	38	e42	e18	48	60	43	10	0.00	0.00	0.00
17	0.00	0.00	28	e41	16	50	53	38	10	0.00	0.00	0.00
18	0.00	0.00	25	e40	15	56	47	32	9.2	0.00	0.00	0.00
19	0.00	0.00	21	e40	14	76	41	29	9.9	0.00	0.00	0.00
20	0.00	0.00	e20	e38	14	81	39	28	9.9	0.00	0.00	0.00
21	0.00	0.00	e19	e33	13	74	34	26	7.7	0.00	0.00	0.00
22	0.00	0.00	e18	e32	13	72	33	26	5.8	0.00	0.00	0.00
23	0.00	0.00	e17	e32	e18	66	44	27	3.6	0.00	0.00	0.00
24	0.00	0.00	17	e33	e23	60	48	29	0.75	0.00	0.00	0.00
25	0.00	0.00	22	e34	e26	56	44	25	0.22	0.00	0.00	0.00
26	0.00	0.00	e27	e31	e30	49	40	23	0.10	0.00	0.00	0.00
27	0.00	0.00	e30	e29	e39	48	36	21	0.02	0.00	0.00	0.00
28	0.00	0.00	e36	e27	e43	44	33	19	0.60	0.00	0.00	0.00
29	0.00	0.00	e40	e26	---	41	202	18	0.46	0.00	0.00	0.00
30	0.00	0.00	e40	e26	---	41	144	15	0.05	0.00	0.00	0.00
31	0.00	---	e38	e23	---	41	---	16	---	0.00	0.00	---
TOTAL	0.00	0.00	700.74	1,154	624	1,906	1,661	1,180	306.30	0.00	0.00	0.00
MEAN	0.000	0.000	22.6	37.2	22.3	61.5	55.4	38.1	10.2	0.000	0.000	0.000
MAX	0.00	0.00	45	45	43	114	202	89	22	0.00	0.00	0.00
MIN	0.00	0.00	0.00	23	13	41	33	15	0.02	0.00	0.00	0.00
AC-FT	0.00	0.00	1,390	2,290	1,240	3,780	3,290	2,340	608	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2003, BY WATER YEAR (WY)

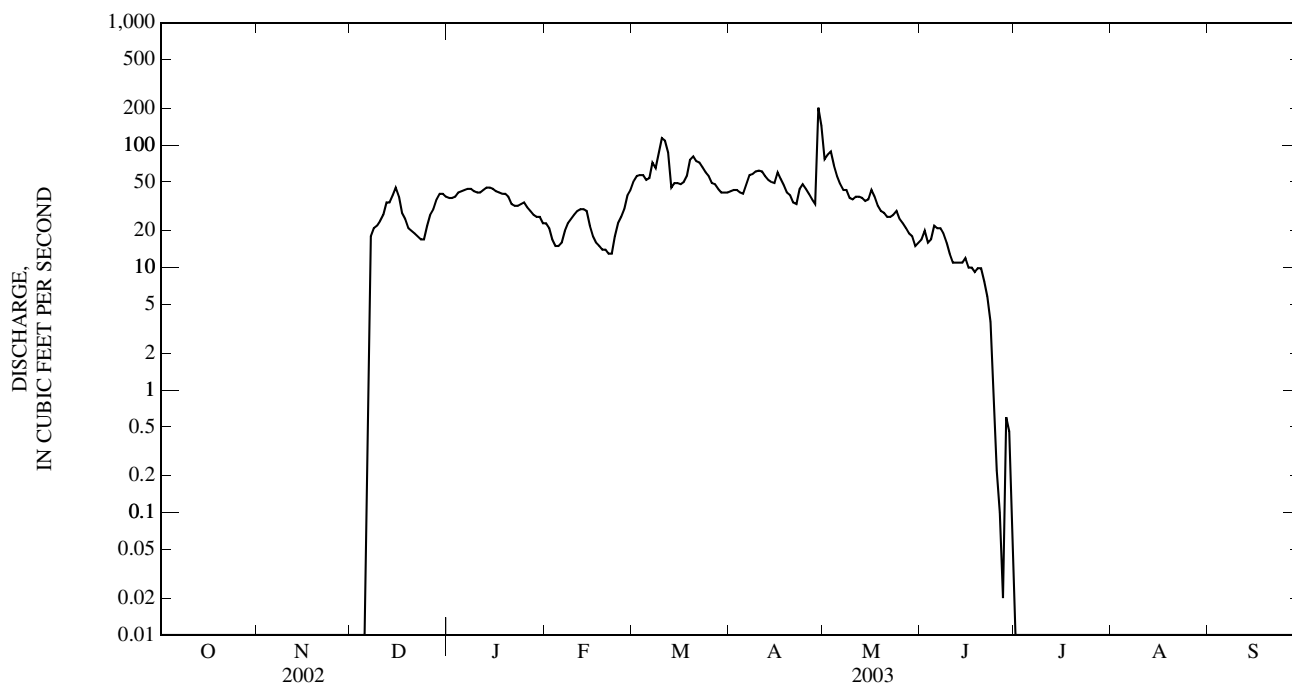
MEAN	45.8	85.3	86.2	97.1	138	173	163	166	135	82.6	62.1	49.4
MAX	285	218	157	159	225	788	388	766	572	759	479	1,005
(WY)	(1966)	(1970)	(1966)	(1974)	(1963)	(1960)	(1980)	(1957)	(1951)	(1962)	(1950)	(1951)
MIN	0.000	0.000	10.0	22.8	22.3	61.5	55.1	11.5	0.000	0.000	0.000	0.000
(WY)	(1977)	(2003)	(2002)	(1979)	(2003)	(2003)	(2002)	(2002)	(2000)	(1954)	(1952)	(1952)

06828500 REPUBLICAN RIVER AT STRATTON, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1950 - 2003	
ANNUAL TOTAL	8,198.50		7,532.04		106	
ANNUAL MEAN	22.5		20.6		304	
HIGHEST ANNUAL MEAN					20.6	
LOWEST ANNUAL MEAN					8,180	
HIGHEST DAILY MEAN	732	Aug 27	202	Apr 29	1951	2003
LOWEST DAILY MEAN	0.00	Jun 9	0.00	Oct 1	Aug 1, 1962	
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 9	0.00	Oct 1	Jun 18, 1952	
MAXIMUM PEAK FLOW			303	Apr 29	*26,800	Jul 31, 1962
MAXIMUM PEAK STAGE			7.62	Apr 29	9.34	Jul 31, 1962
ANNUAL RUNOFF (AC-FT)	16,260		14,940		76,680	
10 PERCENT EXCEEDS	62		50		211	
50 PERCENT EXCEEDS	2.6		14		79	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated.

* Stage 9.34 ft., site then in use.



06832000 ENDERS RESERVOIR NEAR ENDERS, NE

LOCATION.--Lat 40° 25'05", long 101° 30'55", in NE 1/4 sec.9, T.5 N., R.37 W., Chase County, Hydrologic Unit 10250005, near right bank in control house at outlet tube of Enders Dam on Frenchman Creek, 2.2 mi southeast of Enders.

DRAINAGE AREA.--950 mi², approximately, of which about 790 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 2119: Drainage area.

GAGE.--Water-stage recorder: Electronic data-logger. Datum of gage is sea level. Prior to Sept. 3, 1960, mercury-column pressure gage at same datum.

REMARKS.--Reservoir is formed by earthfill dam; storage began Oct. 23, 1950. Capacity, 36,010 acre-ft between elevations 3,080.0 ft, sill of outlet gates, and 3,112.3 ft, top of storage pool. Top of flood-control pool at elevation 3,127.0 ft, capacity, 74,520 acre-ft. Top of superstorage flood-control pool at elevation 3,129.5 ft, capacity, 80,730 acre-ft. Dead storage, 8,470 acre-ft. Figures given herein represent total contents. Water used for irrigation in Frenchman-Cambridge irrigation project.

COOPERATION.--Capacity table furnished by Bureau of Reclamation (Effective Jan. 1, 1999).

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 55,330 acre-ft Mar. 25, 1960, elevation, 3,118.20 ft; minimum since operation of reservoir began, 8,870 acre-ft Aug. 28, 1978, elevation, 3,080.67 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 15,260 acre-ft June 6, elevation, 3,090.87 ft; minimum, 9,970 acre-ft Oct. 1, elevation, 3,083.97 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

3,080 7,516 3,090 14,510

3,085 10,670 3,100 25,000

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,330	10,730	11,070	11,480	11,920	12,380	13,000	13,550	13,680	13,590	11,790	11,220
2	10,370	10,740	11,090	11,470	11,930	12,400	13,000	13,550	13,670	13,560	11,740	11,210
3	10,410	10,760	11,120	11,500	11,950	12,410	13,030	13,550	13,670	13,550	11,670	11,200
4	10,400	10,760	11,150	11,510	11,980	12,430	13,040	13,580	13,670	13,510	11,650	11,180
5	10,410	10,770	11,160	11,510	12,000	12,450	13,060	13,580	13,670	13,510	11,630	11,170
6	10,410	10,770	11,180	11,540	12,010	12,460	13,130	13,590	13,670	13,490	11,600	11,150
7	10,410	10,810	11,190	11,570	12,030	12,490	13,160	13,590	13,670	13,460	11,570	11,130
8	10,420	10,840	11,230	11,590	12,040	12,480	13,160	13,620	13,670	13,450	11,580	11,100
9	10,440	10,840	11,230	11,580	12,080	12,460	13,180	13,610	13,670	13,420	11,560	11,170
10	10,450	10,850	11,230	11,600	12,090	12,530	13,180	13,660	13,670	13,400	11,540	11,190
11	10,460	10,850	11,270	11,630	12,110	12,530	13,190	13,660	13,630	13,330	11,520	11,150
12	10,450	10,860	11,280	11,630	12,100	12,560	13,180	13,670	13,640	13,230	11,500	11,140
13	10,440	10,870	11,270	11,650	12,120	12,570	13,200	13,670	13,630	13,150	11,470	11,120
14	10,440	10,880	11,290	11,650	12,130	12,560	13,200	13,670	13,620	13,070	11,440	11,110
15	10,460	10,890	11,300	11,680	12,180	12,590	13,210	13,690	13,600	12,970	11,420	11,100
16	10,460	10,920	11,300	11,700	12,190	12,600	13,270	13,710	13,670	12,890	11,400	11,070
17	10,470	10,930	11,310	11,700	12,210	12,630	13,260	13,710	13,710	12,800	11,370	11,100
18	10,470	10,950	11,330	11,710	12,210	12,750	13,300	13,720	13,700	12,720	11,350	11,050
19	10,470	10,950	11,350	11,730	12,210	12,810	13,300	13,690	13,690	12,650	11,390	11,030
20	10,480	10,970	11,320	11,760	12,250	12,830	13,300	13,690	13,670	12,560	11,380	11,020
21	10,440	10,990	11,350	11,760	12,260	12,840	13,300	13,690	13,650	12,500	11,350	11,020
22	10,460	11,000	11,360	11,790	12,270	12,870	13,300	13,690	13,650	12,430	11,350	11,010
23	10,500	11,000	11,350	11,800	12,310	12,870	13,340	13,730	13,650	12,350	11,300	11,010
24	10,530	11,000	11,380	11,800	12,330	12,900	13,390	13,720	13,640	12,280	11,290	10,980
25	10,530	11,010	11,380	11,800	12,350	12,920	13,400	13,710	13,610	12,210	11,260	10,970
26	10,550	11,020	11,380	11,830	12,360	12,930	13,420	13,700	13,590	12,160	11,250	10,960
27	10,560	11,040	11,390	11,850	12,360	12,970	13,430	13,710	13,580	12,080	11,230	10,940
28	10,570	11,050	11,400	11,850	12,380	12,970	13,440	13,710	13,610	12,030	11,280	10,940
29	10,590	11,050	11,430	11,880	---	12,980	13,570	13,710	13,600	11,970	11,260	10,910
30	10,680	11,060	11,430	11,880	---	13,000	13,540	13,690	13,590	11,920	11,250	10,920
31	10,710	---	11,450	11,890	---	12,990	---	13,670	---	11,850	11,240	---
MEAN	10,480	10,910	11,290	11,690	12,160	12,680	13,250	13,660	13,650	12,840	11,440	11,080
MAX	10,710	11,060	11,450	11,890	12,380	13,000	13,570	13,730	13,710	13,590	11,790	11,220
MIN	10,330	10,730	11,070	11,470	11,920	12,380	13,000	13,550	13,580	11,850	11,230	10,910
(*)	3,085.06	3,085.55	3,086.09	3,086.65	3,087.34	3,088.13	3,088.82	3,088.99	3,088.85	3,086.64	3,085.80	3,085.35
(**)	+390	+350	+390	+400	+490	+610	+550	+130	-80	-1,740	-610	-320

CAL YR 2002 MAX 15,240 MIN 10,210 (**) -580

CAL YR 2003 MAX 13,730 MIN 10,330 (**) +600

(*) Elevation, in feet, at end of month.

(**) Change in contents, in acre-feet.

06832000 ENDERS RESERVOIR NEAR ENDERS, NE—Continued

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06834000 FRENCHMAN CREEK AT PALISADE, NE

LOCATION.--Lat 40° 21'07", long 101° 07'24", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.36, T.5 N., R.34 W., Hayes County, Hydrologic Unit 10250005, on right bank at upstream side of bridge on U.S. Highway 6, 0.7 mi west of Palisade, 1.5 mi upstream from Stinking Water Creek, and at mile 30.2.

DRAINAGE AREA.--1,300 mi², approximately, of which about 1,110 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--October 1894 to October 1896, June 1950 to current year. Published as Frenchman River at Palisade, October 1894 to October 1896 and October 1965 to September 1972.

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

GAGE.--Water-stage recorder. Datum of gage is 2,743.49 ft above sea level. October 1894 to October 1896, nonrecording gage at railroad bridge 0.4 mi downstream at different datum; June 1950 to Feb. 7, 1977 recording gage at site 2,000 ft upstream at datum 4.0 ft higher.

REMARKS.--Records good except for periods of estimated record, which are poor. Natural flow affected by irrigation development above station and, since Oct. 23, 1950, by storage in Enders Reservoir (station 06832000).

COOPERATION.--Records provided by Nebraska Department of Natural Resources and reviewed by the U.S. Geological Survey.

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	5.3	17	25	e25	22	e20	22	30	20	19	18	0.46
2	5.1	16	23	e24	22	e21	22	28	20	17	17	0.98
3	7.0	15	22	e26	23	21	20	26	19	17	16	0.72
4	7.6	16	22	e28	24	22	21	25	19	15	14	0.37
5	7.5	16	22	e30	26	e18	22	24	19	13	14	0.15
6	7.7	15	24	e31	24	e20	23	24	19	12	9.7	0.02
7	7.7	16	26	e31	e23	22	25	23	21	13	5.7	0.01
8	7.8	15	23	25	e25	20	24	24	21	13	11	0.08
9	7.8	15	24	24	e27	20	24	25	20	12	4.6	2.8
10	7.8	15	27	23	e28	21	24	27	18	10	4.1	5.3
11	8.2	15	29	e30	24	20	23	26	17	8.7	4.7	5.3
12	7.9	15	22	e27	21	20	23	25	17	7.9	3.6	4.5
13	7.6	16	23	e25	21	20	22	24	16	13	3.1	4.3
14	7.8	18	27	31	21	20	22	22	15	21	2.4	4.9
15	8.7	18	22	31	21	19	22	22	15	22	2.0	5.3
16	10	17	21	e27	22	19	26	24	15	22	1.6	5.7
17	11	17	20	e27	21	19	28	24	24	23	0.36	5.4
18	11	17	22	e28	20	25	25	23	80	23	0.13	5.0
19	11	17	24	e29	20	30	25	23	39	24	0.12	5.1
20	11	17	e20	e30	20	27	24	22	26	24	0.25	5.7
21	11	17	e19	e32	20	23	23	22	23	24	0.06	6.0
22	12	17	e18	32	20	23	23	22	21	25	0.04	6.3
23	13	17	e16	26	e27	22	29	22	19	25	0.02	6.3
24	13	17	e15	e35	e23	22	29	22	18	24	0.01	5.8
25	14	e17	e16	e34	e18	22	28	22	41	21	0.01	5.6
26	14	e18	e17	e34	e18	22	26	21	48	18	0.01	5.8
27	15	e17	e18	e33	e19	22	25	21	23	18	0.03	5.9
28	15	e19	e20	e32	e20	22	24	20	20	19	0.79	6.6
29	14	e21	e26	27	---	22	35	20	20	20	0.03	6.3
30	15	e23	e24	21	---	22	36	19	24	19	0.02	6.6
31	16	---	e23	21	---	22	---	19	---	19	0.03	---
TOTAL	317.5	506	680	879	620	668	745	721	717	561.6	133.41	123.29
MEAN	10.2	16.9	21.9	28.4	22.1	21.5	24.8	23.3	23.9	18.1	4.30	4.11
MAX	16	23	29	35	28	30	36	30	80	25	18	6.6
MIN	5.1	15	15	21	18	18	20	19	15	7.9	0.01	0.01
AC-FT	630	1,000	1,350	1,740	1,230	1,320	1,480	1,430	1,420	1,110	265	245

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2003, BY WATER YEAR (WY)

	MEAN	38.3	34.6	34.8	36.8	41.6	46.2	45.7	50.9	68.3	177	162	64.8
MAX	120	88.9	97.4	102	147	247	198	151	270	340	367	232	
(WY)	(1963)	(1959)	(1959)	(1953)	(1952)	(1960)	(1960)	(1957)	(1967)	(1968)	(1962)	(1962)	
MIN	10.2	16.9	21.6	19.3	22.1	21.5	21.6	16.4	8.61	18.1	3.41	2.25	
(WY)	(2003)	(2003)	(1990)	(1979)	(2003)	(2003)	(1972)	(2002)	(2002)	(2003)	(2002)	(2002)	

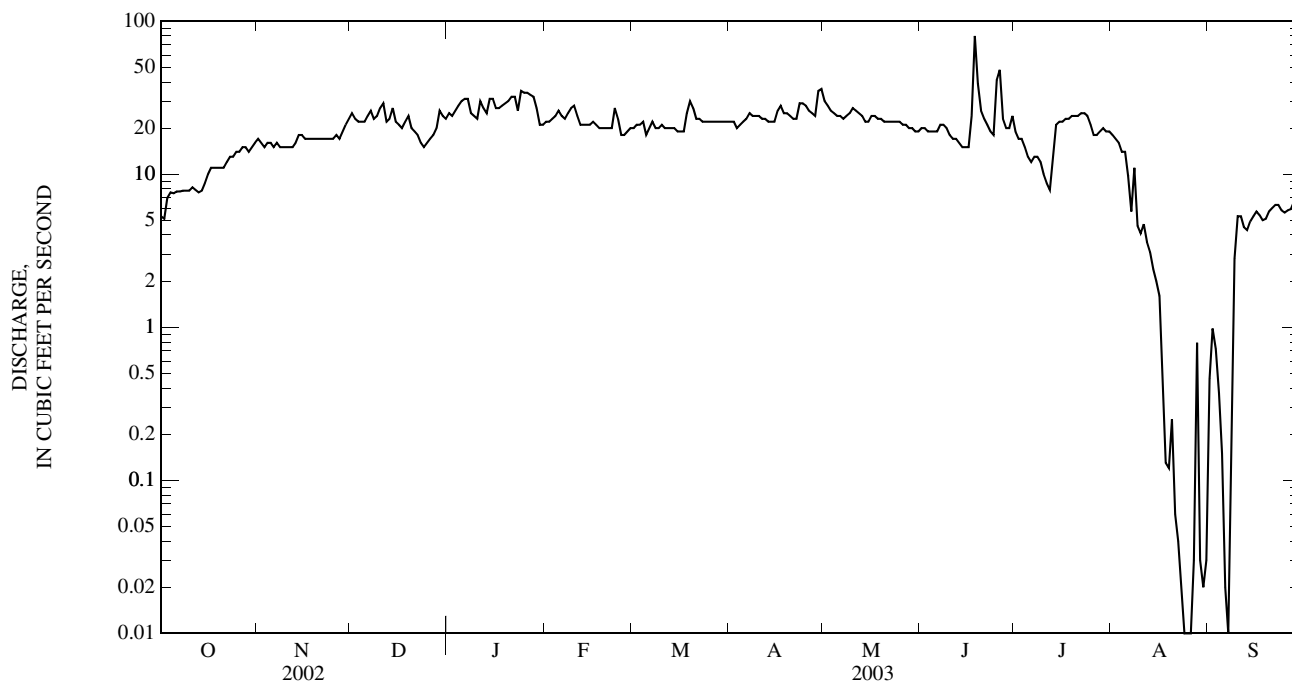
06834000 FRENCHMAN CREEK AT PALISADE, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1950 - 2003a	
ANNUAL TOTAL	7,339.62		6,671.80		67.2	
ANNUAL MEAN	20.1		18.3		115	
HIGHEST ANNUAL MEAN					18.3	
LOWEST ANNUAL MEAN					2,090	
HIGHEST DAILY MEAN	100	Jul 22	80	Jun 18	Jun 17, 1956	
LOWEST DAILY MEAN	0.04	Sep 9	0.01	Aug 24	Aug 24, 2003	
ANNUAL SEVEN-DAY MINIMUM	0.17	Aug 21	0.03	Aug 21	Aug 21, 2003	
MAXIMUM PEAK FLOW			124	Jun 25	Jun 17, 1956	
MAXIMUM PEAK STAGE			4.47	Jun 25	*8.79	
ANNUAL RUNOFF (AC-FT)	14,560		13,230		48,710	
10 PERCENT EXCEEDS	31		27		157	
50 PERCENT EXCEEDS	18		20		36	
90 PERCENT EXCEEDS	2.8		5.1		22	

e Estimated.

a Since beginning of storage in Enders Reservoir.

* Site and datum then in use.



06835500 FRENCHMAN CREEK AT CULBERTSON, NE

LOCATION.--Lat 40° 14'05", long 100° 52'40", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T.3 N., R.32 W., Hitchcock County, Hydrologic Unit 10250005, on right bank 8 ft upstream from bridge on U.S. Highways 6 and 34, 2 mi west of Culbertson, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--2,990 mi², of which about 1,590 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--June 1913 to September 1915 (gage heights and discharge measurements only), October 1930 to current year. Published as Frenchman River at Culbertson October 1965 to September 1972. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1390: 1931, 1933, 1934(M), 1938(M). WDR NE-84-1: 1979, 1982(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,583.44 ft above sea level. See WSP 1919 for history of changes prior to Nov. 2, 1950. Data collection platform at station.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow affected by irrigation development above station and, since Oct. 23, 1950, by storage in Enders Reservoir (station 06832000). Principal diversion is by Culbertson Canal, 20,800 acres.

EXTREME FOR TOTAL PERIOD OF RECORD.--Maximum discharge, 15,000 ft³/s (estimated), May 31, 1935, gage height 14.80 ft, from floodmark.

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	0.00	0.01	12	31	44	49	18	47	23	8.9	0.16	0.05
2	0.00	1.9	12	33	45	53	17	43	24	8.1	0.17	0.04
3	0.01	2.4	13	33	45	47	17	46	23	9.0	0.15	0.04
4	0.00	2.9	13	32	44	37	15	45	21	6.2	0.26	0.00
5	0.00	3.0	13	e34	45	35	15	42	20	5.0	0.26	0.00
6	0.00	2.9	e13	36	e43	37	14	40	20	3.3	0.19	0.00
7	0.00	3.3	e13	e37	40	37	14	38	20	2.9	0.12	0.00
8	0.00	3.8	e13	e37	36	34	15	38	19	3.2	1.3	0.00
9	0.00	3.8	e14	e37	e41	33	16	37	19	2.4	0.31	0.00
10	0.00	3.5	e14	e36	e44	35	17	37	19	2.1	0.25	0.00
11	0.00	3.7	14	36	e44	37	17	38	18	1.7	0.17	0.00
12	0.00	3.7	e15	34	44	37	17	38	17	1.4	0.19	0.00
13	0.00	4.3	e16	34	44	30	17	37	17	0.99	0.25	0.00
14	0.00	4.8	16	e34	45	27	16	36	16	0.90	0.24	0.00
15	0.00	5.2	e17	e34	44	24	16	35	14	0.83	0.23	0.00
16	0.00	5.5	18	e34	44	22	17	35	14	0.59	0.14	0.00
17	0.00	6.0	18	34	45	31	15	35	13	0.36	0.06	0.00
18	0.00	6.0	18	e35	44	32	17	34	14	0.32	0.03	0.00
19	0.00	6.0	19	e36	44	38	17	34	32	0.30	0.00	0.00
20	0.00	6.1	18	e38	44	37	17	32	33	0.23	0.00	0.00
21	0.00	6.0	15	e41	44	39	16	32	20	0.18	0.00	0.00
22	0.00	6.1	e16	e43	44	37	17	32	19	0.10	0.00	0.00
23	0.00	6.2	e18	e45	42	31	22	32	16	0.09	0.00	0.00
24	0.00	6.2	19	e46	31	25	28	32	13	0.10	0.00	0.00
25	0.00	e6.2	e19	e45	31	24	28	31	11	0.08	0.00	0.00
26	0.00	e6.2	e20	e43	37	23	29	30	9.9	0.08	0.00	0.00
27	0.02	e6.4	e20	e43	42	22	29	28	35	0.14	0.00	0.00
28	0.00	6.8	21	44	47	19	28	28	16	0.16	0.11	0.00
29	0.01	12	e23	45	---	18	32	27	10	0.10	0.05	0.00
30	0.00	13	e25	46	---	18	54	25	9.2	0.07	0.05	0.00
31	0.00	---	e28	47	---	18	---	23	---	0.10	0.05	---
TOTAL	0.04	153.91	523	1,183	1,187	986	607	1,087	555.1	59.92	4.74	0.13
MEAN	0.001	5.13	16.9	38.2	42.4	31.8	20.2	35.1	18.5	1.93	0.15	0.004
MAX	0.02	13	28	47	47	53	54	47	35	9.0	1.3	0.05
MIN	0.00	0.01	12	31	31	18	14	23	9.2	0.07	0.00	0.00
AC-FT	0.08	305	1,040	2,350	2,350	1,960	1,200	2,160	1,100	119	9.4	0.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2003, BY WATER YEAR (WY)

	MEAN	68.1	79.2	78.3	79.4	96.4	108	76.2	63.2	73.9	46.3	36.1	53.8
MAX	172	146	162	182	210	543	290	222	351	269	258	245	
(WY)	(1963)	(1963)	(1959)	(1953)	(1952)	(1960)	(1960)	(1952)	(1967)	(1962)	(1962)	(1951)	
MIN	0.001	5.13	16.9	38.2	42.4	31.8	20.2	12.4	4.57	0.32	0.15	0.000	
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2000)	(2002)	(2003)	(2002)	

06835500 FRENCHMAN CREEK AT CULBERTSON, NE—Continued

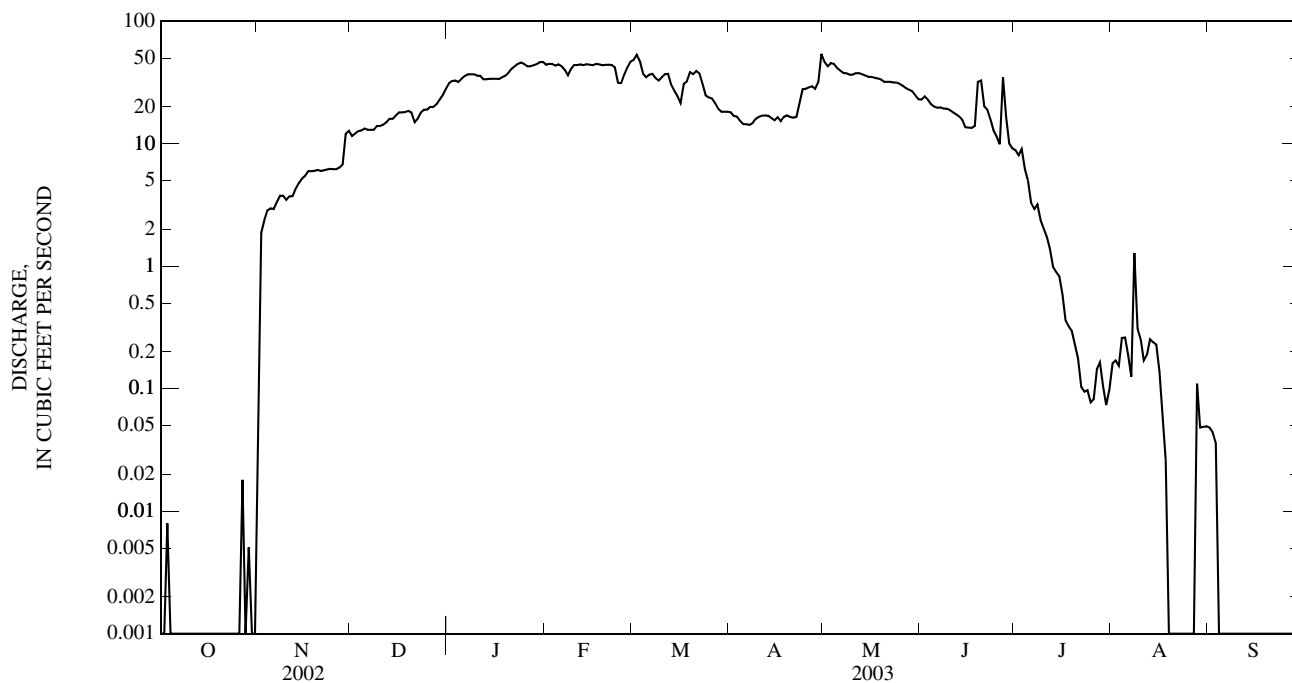
SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1951 - 2003a	
ANNUAL TOTAL	6,184.47		6,346.84		71.4	
ANNUAL MEAN	16.9		17.4		165	
HIGHEST ANNUAL MEAN					17.4	
LOWEST ANNUAL MEAN					3,060	
HIGHEST DAILY MEAN	59	Mar 11	54	Apr 30		Jun 18, 1956
LOWEST DAILY MEAN	0.00	Jul 23	0.00	Oct 1	0.00	Aug 7, 1980
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 23	0.00	Oct 4	0.00	Aug 18, 2000
MAXIMUM PEAK FLOW			*69	Apr 30	5,260	Jun 17, 1951
MAXIMUM PEAK STAGE			**3.57	Jan 25	10.43	Jun 17, 1951
ANNUAL RUNOFF (AC-FT)	12,270		12,590		51,750	
10 PERCENT EXCEEDS	52		43		128	
50 PERCENT EXCEEDS	10		16		61	
90 PERCENT EXCEEDS	0.00		0.00		14	

e Estimated.

a Since start of storage in Enders Reservoir.

* Stage 2.84 ft.

** Backwater from ice.



06836500 DRIFTWOOD CREEK NEAR MCCOOK, NE

LOCATION.--Lat 40°08'45", long 100°40'22", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.11, T.2 N., R.30 W., Red Willow County, Hydrologic Unit 10250004, on right bank downstream from county road bridge, 5.8 mi upstream from mouth, and 3.5 mi southwest of McCook.

DRAINAGE AREA.--361 mi², of which about 351 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--March 1946 to current year.

REVISED RECORDS.--WSP 1210: 1950. WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,502.78 ft above sea level. Prior to Oct. 12, 1962, at site 1.5 mi downstream in old channel at datum 9.00 ft lower, Oct. 12, 1962 to Apr. 11, 1963 at site 1.8 mi downstream at datum 12.75 ft lower, Apr. 12, 1963 to Apr. 22, 1982 at site 1.3 mi downstream at datum 9.00 ft lower, and Apr. 22, 1982 to May 29, 1992 at site 3.2 mi downstream at datum 17.55 ft lower. Data collection platform at station.

REMARKS.--Records fair. Natural flow affected by waste from Meeker-Driftwood Canal and by irrigation development above station.

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	0.85	2.1	1.4	1.6	1.7	2.1	3.5	3.1	1.5	1.2	0.30	0.25
2	0.85	2.0	1.4	1.6	1.8	2.1	3.3	2.7	2.0	1.1	0.48	0.25
3	0.91	2.0	1.4	1.6	1.8	2.1	3.5	2.7	1.8	1.2	0.39	0.25
4	0.97	2.0	1.4	1.7	1.9	2.0	3.6	2.7	2.3	1.0	0.53	0.24
5	0.94	2.1	1.4	1.7	1.9	2.1	3.6	2.6	2.6	1.1	0.27	0.22
6	0.89	2.0	1.5	1.7	1.7	2.2	3.9	2.5	2.0	1.2	0.20	0.18
7	0.97	2.0	1.5	1.7	1.6	2.1	3.9	2.5	1.7	1.5	0.13	0.18
8	0.95	1.9	1.5	1.8	1.8	2.2	3.8	2.5	1.6	1.7	0.33	0.18
9	1.00	1.9	1.5	1.9	1.8	2.0	3.8	2.5	1.4	1.6	0.28	0.25
10	1.1	1.8	1.4	1.8	1.8	1.9	3.6	2.6	1.5	1.5	0.37	0.25
11	1.1	1.7	1.5	1.8	1.8	2.2	3.7	2.7	2.3	1.2	0.31	0.94
12	1.2	1.6	1.4	1.8	1.7	2.2	3.3	e2.6	2.6	1.1	0.16	0.88
13	1.2	1.5	1.4	1.8	1.8	2.3	3.1	e2.5	2.2	0.89	0.21	0.28
14	1.2	1.6	1.6	1.8	1.8	2.3	2.9	e2.6	2.0	0.72	0.23	0.25
15	1.2	1.6	1.5	1.6	1.8	2.3	3.0	e2.5	1.5	0.41	0.29	0.24
16	1.2	1.6	1.5	1.5	1.7	2.3	16	e2.8	1.2	0.51	0.26	0.24
17	1.5	1.6	1.5	1.6	1.7	2.4	7.7	2.6	1.3	0.39	0.15	0.25
18	1.6	1.5	1.5	1.7	1.7	3.1	3.2	2.4	1.5	0.32	0.21	0.24
19	1.7	1.5	1.6	1.7	1.7	3.4	2.7	2.7	1.6	0.35	0.23	0.25
20	1.9	1.5	1.5	1.7	1.8	3.0	2.6	2.4	1.6	0.43	0.26	0.24
21	2.0	1.6	1.5	1.6	2.0	2.8	2.6	2.2	1.6	0.43	0.24	0.27
22	1.9	1.5	1.4	1.4	2.0	2.9	2.6	2.0	1.4	0.30	0.22	0.29
23	2.1	1.5	1.4	1.5	1.9	3.1	2.9	2.0	1.1	0.28	0.27	0.28
24	2.1	1.5	1.5	1.6	1.9	3.4	3.0	1.9	1.1	0.26	0.26	0.25
25	2.2	1.5	1.4	1.5	1.7	3.4	2.7	1.8	0.99	0.25	0.23	0.25
26	2.1	1.5	1.5	1.4	2.0	3.5	2.7	1.7	1.2	0.21	0.19	0.27
27	2.3	1.5	1.6	1.4	2.0	3.7	2.6	1.6	1.2	0.22	0.20	0.34
28	2.3	1.5	1.6	1.4	2.1	3.8	2.6	1.6	1.5	0.24	0.29	0.41
29	2.2	1.5	1.7	1.4	---	3.7	3.1	1.5	1.4	0.28	0.26	0.35
30	2.1	1.4	1.7	1.3	---	3.7	3.6	1.4	1.1	0.44	0.25	0.35
31	2.1	---	1.6	1.5	---	3.7	---	1.5	---	0.25	0.27	---
TOTAL	46.63	50.5	46.3	50.1	50.9	84.0	113.1	71.4	48.79	22.58	8.27	9.12
MEAN	1.50	1.68	1.49	1.62	1.82	2.71	3.77	2.30	1.63	0.73	0.27	0.30
MAX	2.3	2.1	1.7	1.9	2.1	3.8	16	3.1	2.6	1.7	0.53	0.94
MIN	0.85	1.4	1.4	1.3	1.6	1.9	2.6	1.4	0.99	0.21	0.13	0.18
AC-FT	92	100	92	99	101	167	224	142	97	45	16	18

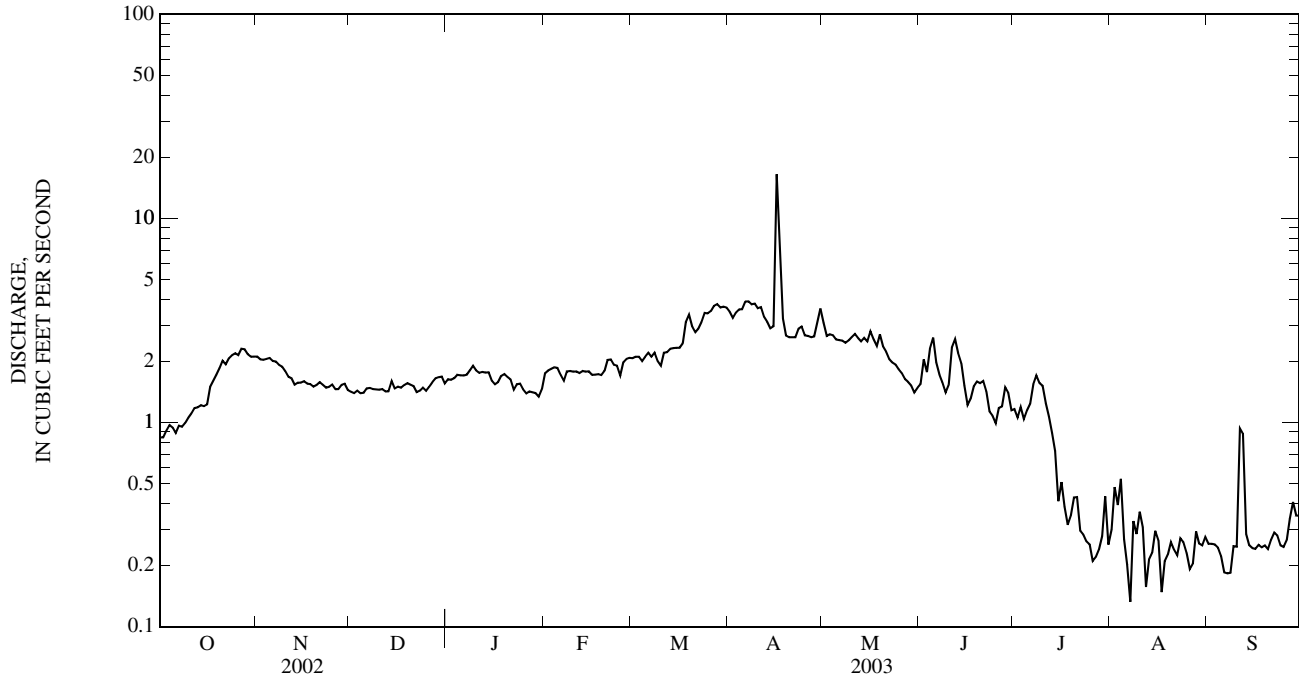
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2003, BY WATER YEAR (WY)

MEAN	6.89	3.65	3.55	3.51	5.59	7.62	4.24	9.35	17.0	19.2	16.0	12.8
MAX	137	7.71	7.44	7.96	31.4	209	13.3	112	85.8	100	156	302
(WY)	(1947)	(1998)	(1974)	(1974)	(1960)	(1960)	(1977)	(1957)	(1947)	(1956)	(1950)	(1951)
MIN	0.071	0.083	0.077	0.052	0.048	0.039	0.20	0.19	0.23	0.052	0.055	0.040
(WY)	(1956)	(1956)	(1955)	(1955)	(1956)	(1956)	(1948)	(1956)	(1954)	(1955)	(1946)	(1953)

06836500 DRIFTWOOD CREEK NEAR MCCOOK, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1946 - 2003	
ANNUAL TOTAL	1,011.86		601.69		9.15	
ANNUAL MEAN	2.77		1.65		35.0	
HIGHEST ANNUAL MEAN					1.12	
LOWEST ANNUAL MEAN					1951	
HIGHEST DAILY MEAN	207	Aug 28	16	Apr 16	3,950	Aug 7, 1950
LOWEST DAILY MEAN	0.39	Aug 26	0.13	Aug 7	0.00	Apr 25, 1946
ANNUAL SEVEN-DAY MINIMUM	0.49	Aug 17	0.21	Sep 2	0.00	Jun 12, 1946
MAXIMUM PEAK FLOW			38	Apr 16	4,740	Aug 7, 1950
MAXIMUM PEAK STAGE			6.17	Apr 16	25.43	Aug 7, 1950
ANNUAL RUNOFF (AC-FT)	2,010		1,190		6,630	
10 PERCENT EXCEEDS	3.2		2.8		11	
50 PERCENT EXCEEDS	2.1		1.6		4.6	
90 PERCENT EXCEEDS	0.85		0.25		0.30	

e Estimated.



06837000 REPUBLICAN RIVER AT MCCOOK, NE

LOCATION.--Lat 40° 11'15", long 100° 37'05", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.32, T.3 N., R.29 W., Red Willow County, Hydrologic Unit 10250004, on left bank at downstream side of bridge on U.S. Highway 83 at south edge of McCook, 2.5 mi downstream from Driftwood Creek, 10.5 mi upstream from Red Willow Creek, and at mile 348.

DRAINAGE AREA.--12,240 mi², of which about 6,220 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--October 1930 to June 1932, October 1954 to current year. Monthly discharge only for some periods, published in WSP 1310.

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

GAGE.--Water-stage recorder. Datum of gage is 2,456.37 ft above sea level. October 1930 to June 1932, nonrecording gage on former highway bridge 300 ft upstream at different datum, and October 1954 to Mar. 13, 1959 on highway bridge 25 ft upstream at present datum. Mar. 13, 1959 to Mar. 29, 1988 at present site and datum. Mar. 29, 1988 to Oct. 31, 1989 200 ft downstream at present datum. Data collection platform at station.

REMARKS.--Records fair, except for estimated daily discharges and records for July through September, which are poor. Natural flow affected by irrigation development above station and by storage in Bonny Reservoir, Enders Reservoir (station 06832000), and Swanson Lake (station 06829000).

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	0.12	0.18	0.19	0.37	39	48	22	48	29	14	0.03	0.02
2	0.26	0.16	0.20	0.39	41	47	21	54	70	13	0.01	0.06
3	0.77	0.14	0.19	0.42	45	48	20	45	37	10	0.01	0.06
4	0.43	0.10	0.25	0.45	39	41	20	41	33	7.0	0.14	0.08
5	0.23	0.09	0.27	1.4	39	47	19	38	32	3.4	0.01	0.06
6	0.24	0.09	0.31	4.8	36	54	22	37	29	2.5	0.12	0.01
7	0.23	0.14	0.31	7.9	28	35	25	36	26	2.6	0.37	0.02
8	0.26	0.14	0.26	12	28	33	26	37	26	12	3.7	0.12
9	0.42	0.13	0.28	9.9	32	32	27	37	25	3.8	0.02	1.3
10	0.50	0.08	0.25	3.2	38	31	27	37	24	1.1	0.11	0.83
11	0.53	0.09	0.26	5.6	43	32	27	37	29	0.50	0.93	0.52
12	0.43	0.09	0.29	3.7	45	32	26	36	150	0.20	0.78	0.36
13	0.39	0.09	0.27	4.1	43	31	25	37	51	0.17	1.0	0.05
14	0.30	0.22	0.33	8.0	42	28	26	37	33	0.05	1.8	0.04
15	0.25	0.25	0.23	12	39	27	27	35	29	0.15	2.6	0.14
16	0.32	0.29	0.18	9.5	37	25	63	41	25	0.14	2.1	0.10
17	0.34	0.26	0.21	5.5	38	25	60	37	25	0.04	4.5	0.10
18	0.41	0.21	0.26	2.4	36	40	34	33	25	0.04	9.4	0.07
19	0.42	0.23	0.26	4.1	35	48	28	62	23	0.03	5.4	0.06
20	0.41	0.22	0.30	8.9	35	39	26	34	27	0.17	0.04	0.01
21	0.47	0.27	0.34	e8.6	36	36	26	31	30	0.29	0.03	0.04
22	0.56	0.31	0.32	e8.3	36	36	26	30	25	0.32	0.02	0.25
23	0.59	0.34	0.32	e8.1	30	35	34	35	24	0.20	0.00	0.21
24	0.55	0.28	0.32	7.9	25	30	39	31	21	0.15	0.00	0.20
25	0.56	0.25	0.39	7.7	27	26	35	28	21	0.26	0.01	0.07
26	0.41	0.25	0.33	13	33	26	31	26	20	0.22	0.03	0.05
27	0.71	0.25	0.27	17	38	26	29	26	18	0.32	0.05	0.05
28	0.44	0.23	0.34	20	42	23	30	26	25	0.60	4.0	0.05
29	0.53	0.22	0.35	26	---	22	36	26	20	0.44	0.53	0.17
30	0.51	0.19	0.27	30	---	22	37	23	17	0.19	0.04	0.09
31	0.27	---	0.36	33	---	22	---	25	---	0.06	0.02	---
TOTAL	12.86	5.79	8.71	284.23	1,025	1,047	894	1,106	969	73.94	37.80	5.19
MEAN	0.41	0.19	0.28	9.17	36.6	33.8	29.8	35.7	32.3	2.39	1.22	0.17
MAX	0.77	0.34	0.39	33	45	54	63	62	150	14	9.4	1.3
MIN	0.12	0.08	0.18	0.37	25	22	19	23	17	0.03	0.00	0.01
AC-FT	26	11	17	564	2,030	2,080	1,770	2,190	1,920	147	75	10

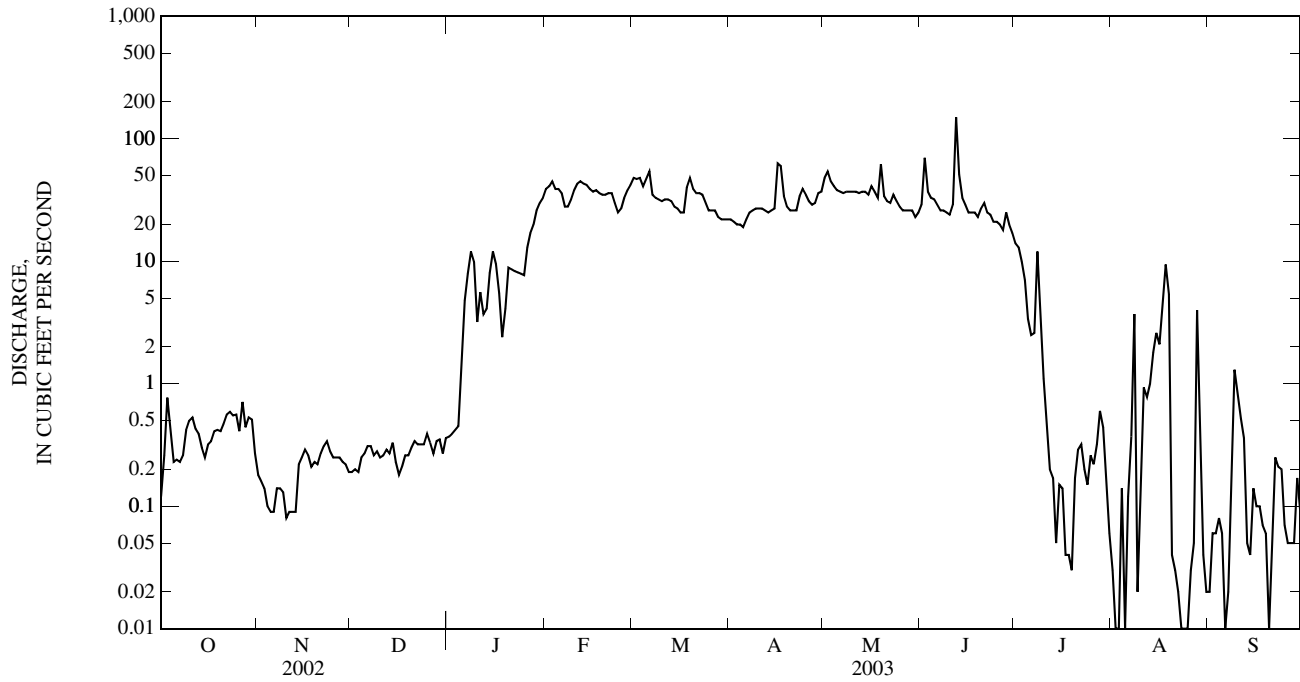
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2003, BY WATER YEAR (WY)

	93.2	106	103	107	143	171	153	165	178	201	163	92.6
MEAN												
MAX	466	341	321	269	398	901	577	1,022	1,070	1,142	970	286
(WY)	(1966)	(1966)	(1959)	(1959)	(1958)	(1960)	(1958)	(1957)	(1962)	(1962)	(1962)	(1962)
MIN	0.41	0.19	0.28	9.17	36.6	33.8	29.8	22.3	6.41	1.77	1.22	0.17
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2003)	(2003)

06837000 REPUBLICAN RIVER AT MCCOOK, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1955 - 2003	
ANNUAL TOTAL	7,183.56		5,469.52		140	
ANNUAL MEAN	19.7		15.0		383	
HIGHEST ANNUAL MEAN					15.0	
LOWEST ANNUAL MEAN					5,020	
HIGHEST DAILY MEAN	140	Aug 28	150	Jun 12	5,020	Mar 21, 1960
LOWEST DAILY MEAN	0.00	Jul 9	0.00	Aug 23	0.00	Sep 24, 2000
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 28	0.02	Aug 20	0.00	Aug 29, 2001
MAXIMUM PEAK FLOW			261	Jun 12	5,890	Mar 21, 1960
MAXIMUM PEAK STAGE			4.75	Jun 12	9.14	Mar 21, 1960
ANNUAL RUNOFF (AC-FT)	14,250		10,850		101,200	
10 PERCENT EXCEEDS	59		37		248	
50 PERCENT EXCEEDS	2.9		3.8		103	
90 PERCENT EXCEEDS	0.02		0.08		46	

e Estimated.



06838000 RED WILLOW CREEK NEAR RED WILLOW, NE

LOCATION.--Lat 40° 14'10", long 100° 30'00", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.17, T.3 N., R.28 W., Red Willow County, Hydrologic Unit 10250007, on left bank near downstream side of bridge on U.S. Highways 6 and 34, 0.8 mi north of Red Willow and 2.1 mi upstream from mouth.

DRAINAGE AREA.--820 mi², of which about 405 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--September 1939 to current year.

REVISED RECORDS.--WSP 1510: 1945(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,398.64 ft above sea level. Prior to May 26, 1945, nonrecording gage at bridge 1.2 mi upstream at datum 11.16 ft higher; May 26, 1945 to Aug. 2, 1974 water-stage recorder at left downstream side of bridge, present datum; Aug. 3, 1974 to June 27, 1980 on right bank at downstream side of bridge, present datum; and June 28, 1980 to May 19, 1992 at left downstream side of bridge, present datum. Data collection platform at station.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow affected by irrigation development above station, since Sept. 5, 1961, by storage in Hugh Butler Lake (station 06837390), and since June 1963 by Red Willow Canal which diverts 4.5 mi above station for irrigation of about 4,150 acres.

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	4.4	7.0	5.9	e3.9	e5.4	6.7	6.5	7.6	7.0	6.4	0.86	2.6
2	4.3	7.0	6.5	e4.3	e5.4	7.0	6.6	8.9	19	6.3	1.3	2.5
3	4.5	6.8	6.4	e4.8	e5.2	7.3	6.6	8.1	7.1	6.0	2.1	2.4
4	5.3	6.7	6.5	e5.4	5.2	6.2	6.7	7.9	8.1	6.2	1.8	2.2
5	4.6	6.7	6.6	5.9	e4.8	4.6	6.8	7.3	6.4	5.9	1.7	1.2
6	4.8	6.5	5.8	5.9	4.6	9.2	7.1	7.3	6.0	5.4	1.3	1.1
7	5.0	6.6	e5.2	6.2	3.2	7.3	7.0	7.4	6.2	5.2	1.2	1.1
8	5.1	6.7	e5.0	6.3	e4.9	6.9	6.7	7.6	5.9	5.5	1.1	1.4
9	4.9	6.7	4.8	5.3	e5.6	5.2	6.8	7.7	5.9	4.4	0.78	2.3
10	5.0	6.4	4.7	2.9	e6.4	7.4	6.9	7.5	6.4	3.4	1.1	2.4
11	5.0	6.4	4.8	e2.9	e7.4	6.7	7.1	7.6	7.5	3.2	1.5	2.7
12	4.6	6.5	e4.6	e2.9	7.9	6.9	7.4	7.5	32	3.1	1.7	2.7
13	4.8	6.5	4.3	e2.8	8.2	7.0	7.4	7.4	23	3.1	1.6	2.7
14	5.0	6.6	6.0	e2.8	8.7	7.2	7.9	7.7	8.7	3.0	1.0	2.9
15	5.3	6.7	6.2	e2.8	7.4	7.3	8.1	8.0	7.5	2.7	1.0	3.2
16	5.5	6.5	6.2	2.8	6.1	7.3	18	8.2	7.2	2.6	0.60	3.3
17	5.6	6.6	6.1	e2.8	6.7	7.4	9.0	8.2	7.0	2.6	0.32	3.3
18	5.6	6.5	6.1	e3.0	6.5	8.3	8.1	8.1	7.0	2.6	0.30	3.3
19	5.8	6.5	e5.6	e3.4	6.5	9.9	7.8	29	6.9	2.2	0.53	3.0
20	5.9	6.5	e5.0	e3.7	6.7	7.1	7.7	7.8	7.1	2.6	0.51	3.3
21	6.1	6.5	3.6	e4.1	6.7	7.0	7.5	7.3	7.1	1.9	0.58	3.3
22	6.3	6.7	1.9	4.6	6.7	7.0	7.5	7.2	6.9	1.6	0.11	3.4
23	6.7	6.7	e2.0	e4.7	3.7	6.9	8.2	7.4	6.9	1.4	0.13	3.4
24	6.9	6.7	e2.1	e5.0	2.2	6.8	10	7.3	6.7	1.1	0.43	3.4
25	6.7	6.7	2.3	e5.2	e2.5	6.7	8.0	7.0	7.0	1.4	1.1	3.3
26	6.9	6.4	2.7	e5.4	e3.3	6.7	7.6	7.1	6.9	1.4	1.3	3.4
27	7.1	4.4	3.8	e5.6	e4.2	6.5	7.5	7.2	6.7	1.3	1.5	3.3
28	7.2	e4.6	e4.1	e5.6	5.1	6.4	7.5	7.1	6.6	1.5	16	3.3
29	6.9	e5.0	e4.6	e5.6	---	5.9	9.7	6.8	7.0	0.93	3.3	3.5
30	7.0	e5.4	e4.0	e5.6	---	6.2	8.4	6.5	6.6	1.1	2.3	3.5
31	7.1	---	3.7	e5.4	---	6.5	---	6.3	---	0.89	2.5	---
TOTAL	175.9	191.5	147.1	137.6	157.2	215.5	238.1	254.0	260.3	96.92	51.55	83.4
MEAN	5.67	6.38	4.75	4.44	5.61	6.95	7.94	8.19	8.68	3.13	1.66	2.78
MAX	7.2	7.0	6.6	6.3	8.7	9.9	18	29	32	6.4	16	3.5
MIN	4.3	4.4	1.9	2.8	2.2	4.6	6.5	6.3	5.9	0.89	0.11	1.1
AC-FT	349	380	292	273	312	427	472	504	516	192	102	165

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2003, BY WATER YEAR (WY)

	8.45	8.51	8.64	9.28	10.7	11.3	11.3	11.8	20.9	22.2	21.4	10.3
MEAN	8.45	8.51	8.64	9.28	10.7	11.3	11.3	11.8	20.9	22.2	21.4	10.3
MAX	18.8	13.6	12.1	21.1	32.9	35.5	41.5	36.6	124	67.2	92.4	29.0
(WY)	(1970)	(1997)	(1966)	(1962)	(1968)	(1994)	(1970)	(1973)	(1967)	(2002)	(1978)	(1978)
MIN	3.84	4.98	4.75	4.00	5.61	6.11	4.98	2.87	4.56	3.13	1.66	2.78
(WY)	(1978)	(1978)	(2003)	(2002)	(2003)	(2002)	(1978)	(1978)	(1992)	(2003)	(2003)	(2003)

06838000 RED WILLOW CREEK NEAR RED WILLOW, NE—Continued

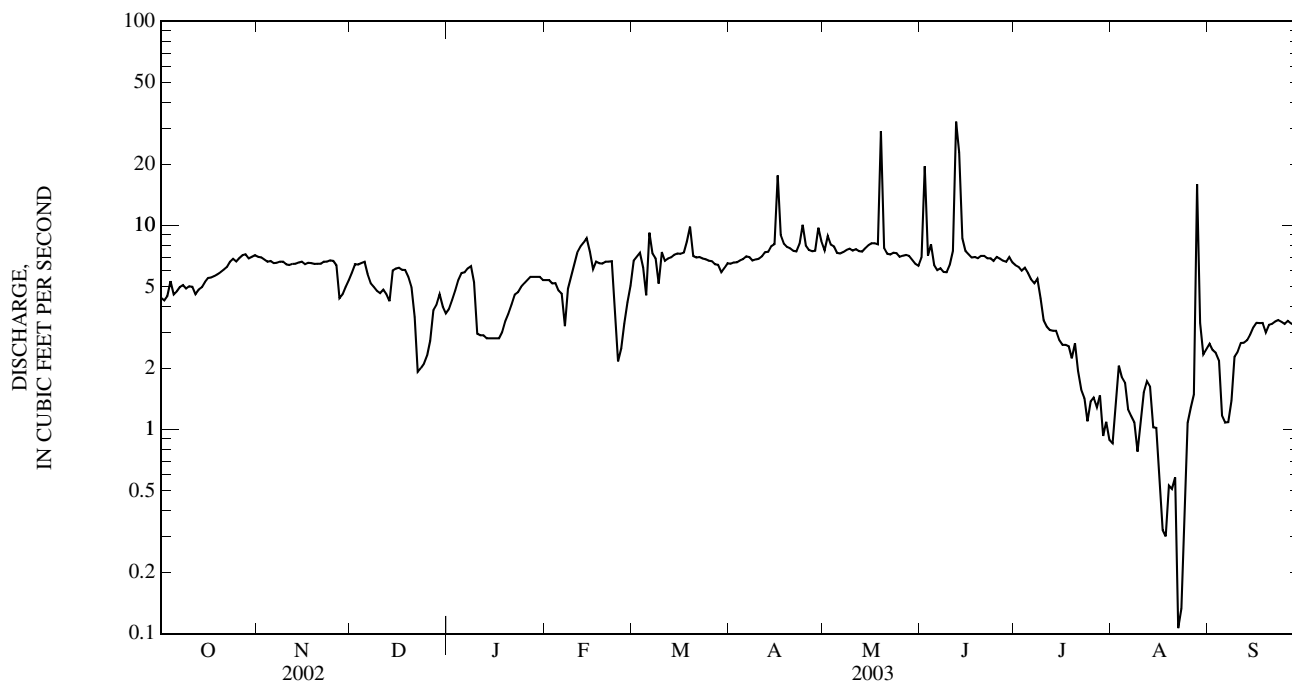
SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1962 - 2003a	
ANNUAL TOTAL	4,258.31		2,009.07		12.9	
ANNUAL MEAN	11.7		5.50		25.5	
HIGHEST ANNUAL MEAN					5.50	
LOWEST ANNUAL MEAN					1967	
HIGHEST DAILY MEAN	143	Jul 22	32	Jun 12	668	Jul 18, 1962
LOWEST DAILY MEAN	0.00	Jul 26	0.11	Aug 22	0.00	Sep 2, 1995
ANNUAL SEVEN-DAY MINIMUM	1.2	Aug 31	0.35	Aug 17	0.29	Dec 31, 1998
MAXIMUM PEAK FLOW			*71	Jun 12	30,000	Jun 22, 1947
MAXIMUM PEAK STAGE			**9.38	Jan 25	18.36	Jun 22, 1947
ANNUAL RUNOFF (AC-FT)	8,450		3,980		9,360	
10 PERCENT EXCEEDS	8.5		7.6		20	
50 PERCENT EXCEEDS	6.1		6.0		9.1	
90 PERCENT EXCEEDS	2.3		1.6		5.4	

e Estimated.

a Since beginning of storage in Hugh Butler Lake.

* Stage 6.34 ft.

** Backwater from ice.



06843500 REPUBLICAN RIVER AT CAMBRIDGE, NE

LOCATION.--Lat 40° 17'05", long 100° 08'35", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 28, T.4 N., R.25 W., Furnas County, Hydrologic Unit 10250004, on left bank 400 ft south of U.S. Highways 6 and 34, 0.5 mi downstream from Medicine Creek, 1 mi east of Cambridge, 1.3 mi upstream from Cambridge diversion dam, and at mile 315.

DRAINAGE AREA.--14,460 mi², of which about 7,780 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--September 1945 to current year.

REVISED RECORDS.--WDR NE-84-1: 1983(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,239.07 ft above sea level. Prior to July 13, 1948, nonrecording gage at site 150 ft upstream at same datum and July 13, 1948 to Sept. 25, 1950 at present site and datum.

REMARKS.--Records good. Natural flow affected by irrigation development above station and since 1949 by regulation from upstream reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 160,000 ft³/s June 22, 1947, gage height 16.7 ft, from floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1826, 17.6 ft May 31 to June 1, 1935, information from local resident, discharge, about 280,000 ft³/s.

COOPERATION.--Records provided by Nebraska Department of Natural Resources and reviewed by the U.S. Geological Survey.

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	0.10	0.20	0.08	0.78	1.0	50	35	58	45	109	171	0.87
2	0.09	0.16	0.06	0.71	1.1	62	35	57	55	120	151	0.53
3	0.07	0.11	0.08	0.68	0.89	66	34	69	96	190	140	0.26
4	0.07	0.09	0.09	0.70	0.71	72	34	67	79	193	184	0.11
5	0.07	0.06	0.10	0.68	0.82	93	35	63	63	180	187	0.09
6	0.06	0.18	0.11	0.63	0.73	60	38	59	57	178	185	0.09
7	0.06	0.26	0.12	0.65	0.57	67	39	55	55	197	181	0.09
8	0.05	0.23	0.12	0.78	0.52	54	40	55	51	206	162	0.05
9	0.03	0.19	0.13	0.80	0.66	51	41	60	47	197	143	0.04
10	0.02	0.31	0.14	0.62	0.80	48	39	61	43	181	141	0.05
11	0.01	0.46	0.14	0.57	5.8	45	39	62	40	174	164	0.30
12	0.01	0.41	0.14	0.52	15	46	39	59	47	177	183	0.21
13	0.00	0.35	0.17	0.59	22	46	38	55	94	178	172	0.16
14	0.00	0.41	0.17	0.65	22	46	37	52	97	199	157	0.10
15	0.00	0.31	0.19	0.69	26	46	37	52	61	203	135	0.07
16	0.00	0.23	0.22	0.59	34	44	43	55	50	203	120	0.06
17	0.00	0.18	0.27	0.50	36	44	57	57	45	205	118	0.05
18	0.00	0.14	0.28	0.48	33	49	64	57	43	202	170	0.05
19	0.00	0.16	0.25	0.68	33	60	56	87	45	191	186	0.04
20	0.00	0.15	0.44	0.79	33	64	48	99	45	189	216	0.05
21	0.00	0.12	0.48	0.91	34	54	45	75	42	194	228	0.05
22	0.00	0.11	0.45	0.89	36	49	43	63	40	192	171	0.05
23	0.00	0.13	0.39	0.77	40	45	46	58	42	176	14	0.06
24	0.00	0.13	0.47	0.87	24	46	54	58	68	169	7.4	0.06
25	0.00	0.11	0.48	0.58	24	45	58	57	70	152	5.3	0.05
26	0.00	0.12	0.46	0.52	29	44	57	52	43	142	4.0	0.05
27	0.96	0.11	0.46	0.56	35	42	55	50	38	143	3.2	0.04
28	0.57	0.10	0.60	0.67	46	40	54	48	34	190	4.5	0.03
29	0.37	0.09	0.73	0.75	---	38	53	48	39	196	2.4	0.03
30	0.34	0.09	0.88	0.85	---	37	55	47	126	199	1.8	0.02
31	0.28	---	0.82	0.95	---	36	---	46	---	204	1.2	---
TOTAL	3.16	5.70	9.52	21.41	535.60	1,589	1,348	1,841	1,700	5,629	3,708.8	3.71
MEAN	0.10	0.19	0.31	0.69	19.1	51.3	44.9	59.4	56.7	182	120	0.12
MAX	0.96	0.46	0.88	0.95	46	93	64	99	126	206	228	0.87
MIN	0.00	0.06	0.06	0.48	0.52	36	34	46	34	109	1.2	0.02
AC-FT	6.3	11	19	42	1,060	3,150	2,670	3,650	3,370	11,170	7,360	7.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2003, BY WATER YEAR (WY)

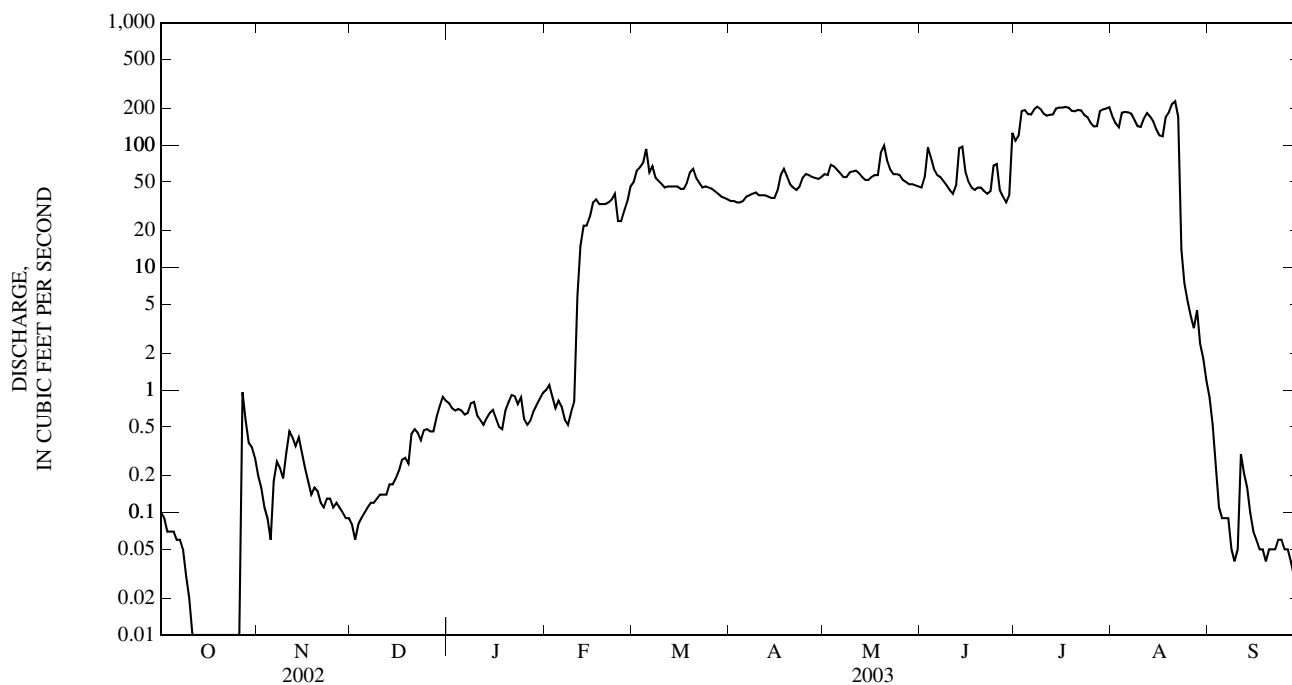
	115	148	144	151	231	284	250	292	332	357	288	148
MAX	515	425	389	384	579	1,684	756	1,624	1,743	1,613	1,202	1,935
(WY)	(1966)	(1966)	(1966)	(1959)	(1966)	(1960)	(1958)	(1957)	(1962)	(1962)	(1962)	(1951)
MIN	0.10	0.19	0.31	0.69	19.1	51.3	44.9	37.4	56.7	160	98.9	0.12
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2003)	(1952)	(1952)	(2003)

06843500 REPUBLICAN RIVER AT CAMBRIDGE, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1950 - 2003a	
ANNUAL TOTAL	22,942.01		16,394.90		228	
ANNUAL MEAN	62.9		44.9		686	
HIGHEST ANNUAL MEAN					44.9	
LOWEST ANNUAL MEAN					8,610	
HIGHEST DAILY MEAN	349	Jul 23	228	Aug 21	2003	Mar 22, 1960
LOWEST DAILY MEAN	0.00	Oct 13	0.00	Oct 13	0.00	Oct 13, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 13	0.00	Oct 13	0.00	Oct 13, 2002
MAXIMUM PEAK FLOW			232	Aug 21	*11,000	Sep 4, 1951
MAXIMUM PEAK STAGE			3.79	Aug 21	9.35	Mar 22, 1960
ANNUAL RUNOFF (AC-FT)	45,510		32,520		165,500	
10 PERCENT EXCEEDS	190		170		402	
50 PERCENT EXCEEDS	49		33		161	
90 PERCENT EXCEEDS	0.10		0.06		66	

a Since beginning of storage in Harry Strunk Lake (Medicine Creek).

* Stage 7.02 ft.



06844500 REPUBLICAN RIVER NEAR ORLEANS, NE

LOCATION.--Lat 40° 07' 53", long 99° 30' 08", in NE 1/4 NE 1/4 sec.19, T.2 N., R.19 W., Harlan County, Hydrologic Unit 10250009, on right bank 18 ft downstream from bridge on State Highway 89, 200 ft downstream from Burlington Northern Inc. bridge, 2 mi west of Orleans, 2.8 mi upstream from Sappa Creek, 23 mi upstream from Harlan County Dam, and at mile 262.

DRAINAGE AREA.--15,580 mi², approximately, of which about 8,880 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--October 1947 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 1,972.57 ft above sea level. Prior to June 2, 1948, nonrecording gage at present site and datum. Data collection platform at station.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow affected by irrigation development above station and regulation by upstream reservoirs.

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	0.00	0.00	0.00	0.00	49	e24	48	92	67	53	0.00	0.00
2	0.00	0.00	0.00	0.00	56	e28	49	86	81	53	0.00	0.00
3	0.00	0.00	0.00	3.6	54	e31	48	88	87	45	0.00	0.00
4	0.00	0.00	0.00	7.4	38	e34	47	88	95	40	0.00	0.00
5	0.00	0.00	0.00	18	37	e41	45	95	103	35	0.00	0.00
6	0.00	0.00	0.00	18	26	e47	49	100	115	30	0.00	0.00
7	0.00	0.00	0.00	18	22	e51	53	94	99	27	0.00	0.00
8	0.00	0.00	0.00	15	e22	e54	53	91	91	22	0.00	0.00
9	0.00	0.00	0.00	16	25	57	54	90	85	21	0.00	0.00
10	0.00	0.00	0.00	14	26	57	55	91	77	17	0.00	0.00
11	0.00	0.00	0.00	9.2	32	51	55	90	72	14	0.00	0.00
12	0.00	0.00	0.00	7.4	41	49	53	89	78	12	0.00	0.00
13	0.00	0.00	0.00	5.9	44	46	51	87	73	11	0.00	0.00
14	0.00	0.00	0.00	5.7	49	47	50	82	76	11	0.00	0.00
15	0.00	0.00	0.00	e5.8	44	47	51	81	78	9.2	0.00	0.00
16	0.00	0.00	0.00	e6.0	36	47	57	81	117	7.5	0.00	0.00
17	0.00	0.00	0.00	e7.0	40	50	62	78	98	4.6	0.00	0.00
18	0.00	0.00	0.00	e8.2	44	57	65	77	83	2.1	0.00	0.00
19	0.00	0.00	0.00	9.7	36	58	69	100	94	1.5	0.00	0.00
20	0.00	0.00	0.00	9.9	37	55	77	198	75	1.3	0.00	0.00
21	0.00	0.00	0.00	11	39	58	73	355	69	0.30	0.00	0.00
22	0.00	0.00	0.00	e10	37	63	68	224	65	0.00	0.00	0.00
23	0.00	0.00	0.00	e9.6	25	60	73	150	59	0.00	0.00	0.00
24	0.00	0.00	0.00	e8.6	e21	56	90	190	54	0.00	0.00	0.00
25	0.00	0.00	0.01	e8.4	e19	52	93	200	73	0.00	0.00	0.00
26	0.00	0.00	0.12	e8.2	e19	52	89	156	114	0.00	0.00	0.00
27	0.00	0.00	0.10	8.2	e19	52	88	101	151	0.00	0.00	0.00
28	0.00	0.00	0.02	11	e19	49	83	89	107	0.00	0.00	0.00
29	0.00	0.00	0.00	22	---	45	106	80	86	0.00	0.00	0.00
30	0.00	0.00	0.00	34	---	45	100	74	63	0.00	0.00	0.00
31	0.00	---	0.06	42	---	46	---	68	---	0.00	0.00	---
TOTAL	0.00	0.00	0.31	357.80	956	1,509	1,954	3,565	2,585	417.50	0.00	0.00
MEAN	0.000	0.000	0.010	11.5	34.1	48.7	65.1	115	86.2	13.5	0.000	0.000
MAX	0.00	0.00	0.12	42	56	63	106	355	151	53	0.00	0.00
MIN	0.00	0.00	0.00	0.00	19	24	45	68	54	0.00	0.00	0.00
AC-FT	0.00	0.00	0.6	710	1,900	2,990	3,880	7,070	5,130	828	0.00	0.00

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

MEAN	124	164	163	164	281	364	317	375	448	248	172	141
MAX	840	519	438	392	772	1,720	915	1,528	2,732	1,602	1,396	2,026
(WY)	(1966)	(1966)	(1966)	(1953)	(1949)	(1960)	(1949)	(1951)	(1948)	(1962)	(1962)	(1951)
MIN	0.000	0.000	0.010	11.5	34.1	48.7	65.1	54.8	37.9	1.19	0.000	0.000
(WY)	(1992)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(1956)	(2002)	(2002)	(2002)	(2002)

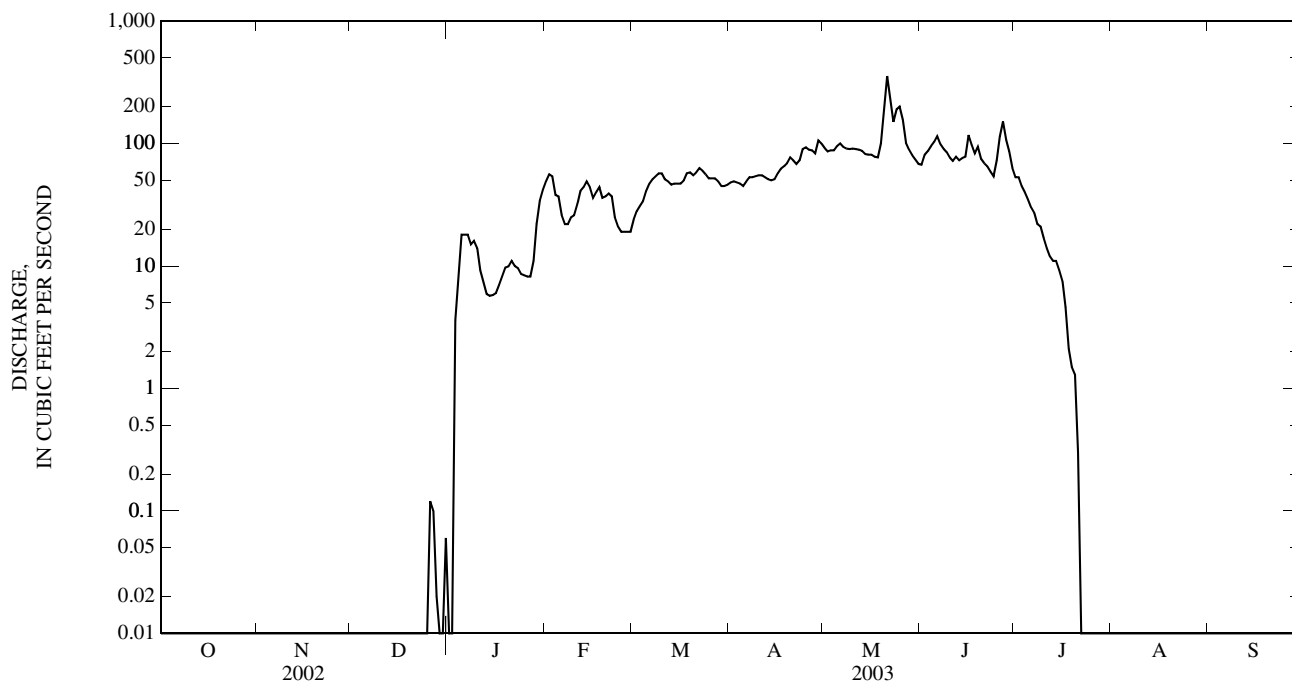
06844500 REPUBLICAN RIVER NEAR ORLEANS, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1948 - 2003	
ANNUAL TOTAL	14,544.03		11,344.61		246	
ANNUAL MEAN	39.8		31.1		746	
HIGHEST ANNUAL MEAN					31.1	
LOWEST ANNUAL MEAN					1951	
HIGHEST DAILY MEAN	177	Mar 13	355	May 21	18,400	Jun 22, 1948
LOWEST DAILY MEAN	0.00	Jul 24	0.00	Oct 1	0.00	Sep 15, 1952
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 24	0.00	Oct 1	0.00	Sep 15, 1952
MAXIMUM PEAK FLOW			469	May 21	*40,600	Jun 22, 1948
MAXIMUM PEAK STAGE			3.56	May 21	**12.95	Mar 8, 1993
ANNUAL RUNOFF (AC-FT)	28,850		22,500		178,500	
10 PERCENT EXCEEDS	114		88		464	
50 PERCENT EXCEEDS	5.1		8.4		155	
90 PERCENT EXCEEDS	0.00		0.00		38	

e Estimated.

* Stage 11.25 ft.

** Backwater from ice.



06846500 BEAVER CREEK AT CEDAR BLUFFS, KS

LOCATION.--Lat 39° 59'06", long 100° 33'35", in NW 1/4 NE 1/4 sec.10, T.1 S., R.29 W., Decatur County, Hydrologic Unit 10250014, on right bank at downstream side of bridge on U.S. Highway 83, 0.2 mi north of Cedar Bluffs, 1.0 mi south of Kansas-Nebraska State line, and at mile 107.4.

DRAINAGE AREA.--1,618 mi², of which 294 mi² is probably noncontributing.

PERIOD OF RECORD.--October 1945 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1510: 1947, 1950-51.

GAGE.--Water-stage recorder. Datum of gage is 2,520.33 ft above NGVD of 1929. Prior to Aug. 19, 1971, at site 0.1 mi upstream at same datum. Aug. 19, 1971, to July 12, 1972, at site 0.8 mi downstream at datum 5.00 ft lower.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1944 reached a stage of 18.16 ft, from floodmark.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 29	0800	*52	*4.85				
						No peak greater than base discharge.	

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	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	9.9	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	2.6	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	5.9	0.00	0.00	0.00	0.00	0.00
30	e0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	e0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.63	0.000	0.13	0.000	0.000	0.000
MAX	0.00	0.00	0.00	0.00	0.00	0.00	9.9	0.00	3.4	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	37	0.00	8.0	0.00	0.00	0.00

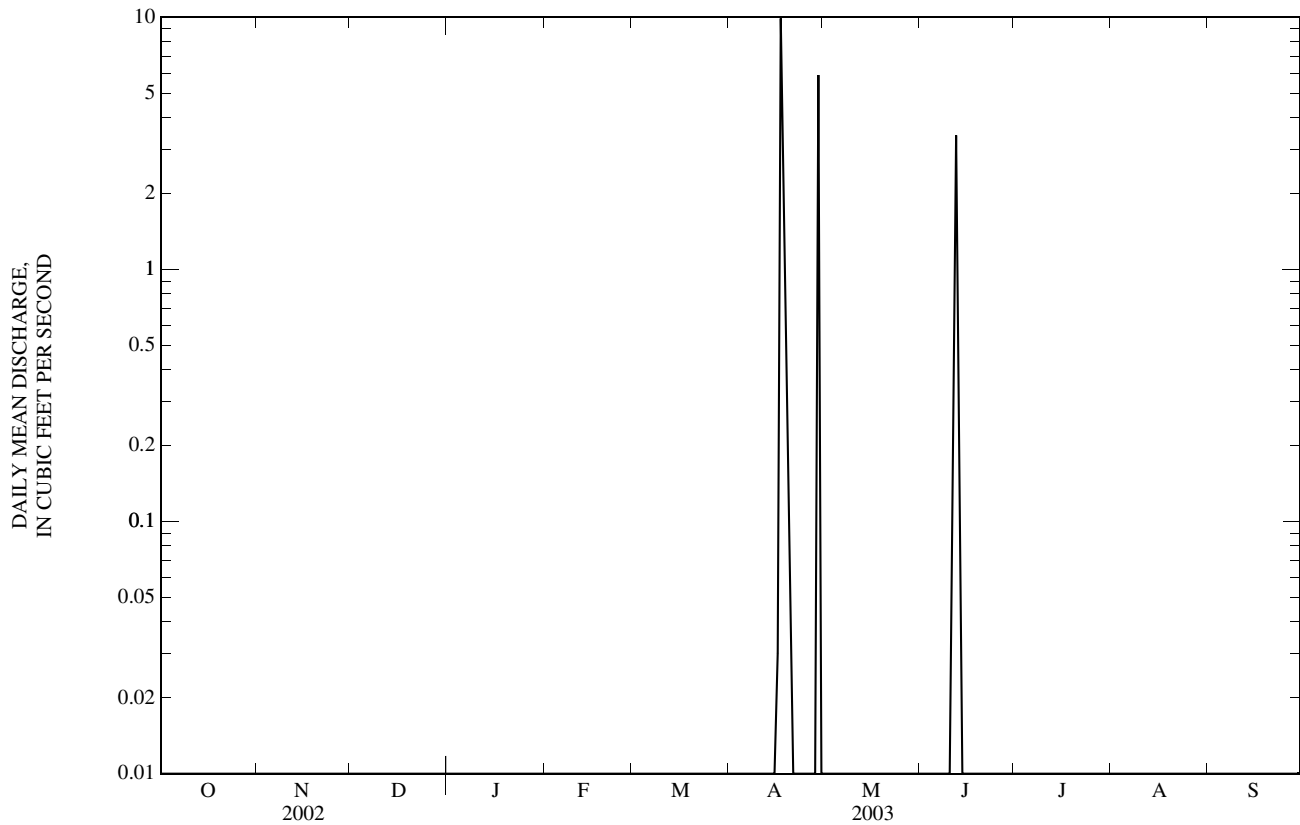
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2003, BY WATER YEAR (WY)

MEAN	8.37	2.76	2.37	2.06	3.63	11.1	6.82	22.2	36.6	28.1	14.7	15.2
MAX	231	39.6	30.4	28.4	28.1	369	61.7	432	278	391	146	421
(WY)	(1947)	(1966)	(1966)	(1966)	(1966)	(1960)	(1960)	(1957)	(1960)	(1951)	(1962)	(1951)
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	(1954)	(1955)	(1955)	(1955)	(1956)	(1955)	(1955)	(1955)	(1979)	(1980)	(1955)	(1953)

06846500 BEAVER CREEK AT CEDAR BLUFFS, KS—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1946 - 2003	
ANNUAL MEAN	0.002		0.063		12.9	
HIGHEST ANNUAL MEAN					106	
LOWEST ANNUAL MEAN					0.000	
HIGHEST DAILY MEAN	0.43	Jul 26	9.9	Apr 17	4,560	Jun 11, 1960
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Sep 3, 1946
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Sep 23, 1947
MAXIMUM PEAK FLOW			52	Apr 29	127	Sep 17, 2001
MAXIMUM PEAK STAGE			4.85	Apr 29	18.71	Jun 11, 1960
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	most years
ANNUAL RUNOFF (AC-FT)	1.5		45		9,330	
10 PERCENT EXCEEDS	0.00		0.00		21	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated



06847500 SAPPA CREEK NEAR STAMFORD, NE

LOCATION.--Lat 40° 07'53", long 99° 33'15", in NW 1/4 NW 1/4 sec. 23, T.2 N., R.20 W., Harlan County, Hydrologic Unit 10250011, on left bank 40 ft south of Burlington Northern Inc. track, 500 ft downstream from bridge on county highway, 2 mi east of Stamford, and 6.5 mi upstream from mouth.

DRAINAGE AREA.--3,840 mi², of which about 3,370 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--October 1945 to current year. Monthly discharge only for some periods, published in WSP 1310.

REVISED RECORDS.--WSP 1919: 1960. WDR NE-71-1: Calendar year totals. WRD NE-82-1: 1979(M). WDR NE-94-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,981.31 ft above sea level. Data collection platform at station.

REMARKS.--Records fair except for daily discharges over 3.0 ft³/s, which are poor. Natural flow affected by irrigation development above station.

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.91	2.7	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	11	2.6	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.8	0.85	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	2.1	0.93	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.97	0.43	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.0	0.06	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.6	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.2	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	1.5	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.4	1.2	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0	1.1	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.3	0.75	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.1	0.51	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5	0.32	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	0.17	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.06	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.25	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.86	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	1.2	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.0	1.2	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	5.5	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	2.9	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	1.7	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	1.5	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	1.2	0.00	2.8	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	1.0	0.00	1.8	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	2.20	26.31	54.41	7.57	0.00	0.00
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.073	0.85	1.81	0.24	0.000	0.000
MAX	0.00	0.00	0.00	0.00	0.00	0.00	1.2	7.0	11	2.7	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	4.4	52	108	15	0.00	0.00

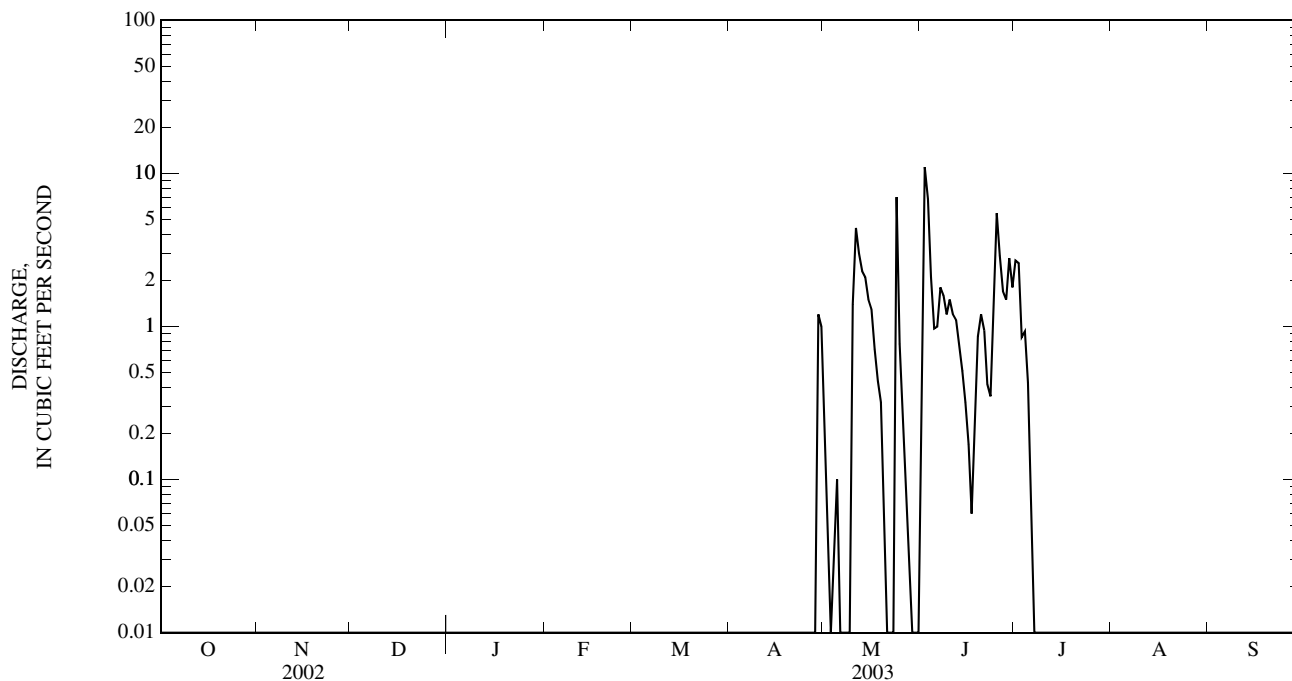
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2003, BY WATER YEAR (WY)

MEAN	37.9	12.5	10.4	9.03	18.6	33.8	24.1	54.6	141	85.3	54.9	38.8
MAX	965	145	96.2	71.5	182	486	164	522	878	891	544	708
(WY)	(1947)	(1947)	(1966)	(1966)	(1966)	(1960)	(1960)	(1949)	(1947)	(1951)	(1950)	(1951)
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	(1954)	(1955)	(1955)	(1955)	(1956)	(1956)	(1956)	(1956)	(1981)	(1977)	(1955)	(1959)

06847500 SAPPA CREEK NEAR STAMFORD, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1946 - 2003	
ANNUAL TOTAL	1,458.46		90.49		43.5	
ANNUAL MEAN	4.00		0.25		229	
HIGHEST ANNUAL MEAN					1951	
LOWEST ANNUAL MEAN					2003	
HIGHEST DAILY MEAN	33	May 11	11	Jun 2	16,600	Jun 24, 1966
LOWEST DAILY MEAN	0.00	Jul 1	0.00	Oct 1	0.00	Sep 12, 1953
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 13	0.00	Oct 1	0.00	Sep 12, 1953
MAXIMUM PEAK FLOW			33	Jun 2	43,400	Jun 24, 1966
MAXIMUM PEAK STAGE			4.45	Jun 2	*22.13	Jun 24, 1966
ANNUAL RUNOFF (AC-FT)	2,890		179		31,520	
10 PERCENT EXCEEDS	10		0.80		77	
50 PERCENT EXCEEDS	0.02		0.00		6.0	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

* From floodmark.



06848500 PRAIRIE DOG CREEK NEAR WOODRUFF, KS

LOCATION.--Lat 39° 59'09", long 99° 28'39", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.9, T.1 S., R.19 W., Phillips County, Hydrologic Unit 10250015, on left bank at downstream side of bridge on U.S. Highway 383, 1.0 mi south of Kansas-Nebraska State line, 2.5 mi west of Woodruff, and at mile 26.5.

DRAINAGE AREA.--1,007 mi².

PERIOD OF RECORD.--October 1928 to September 1932, October 1944 to current year. Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 2,016.20 ft above NGVD of 1929. See WSP 1919 for history of changes prior to Oct. 7, 1955.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated to some extent since 1964 by Keith Sebelius Lake (station 06847950), 48.4 mi upstream, and by irrigation development upstream from station. Satellite telemeter at station.

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	0.00	0.00	0.42	e2.4	e3.1	e3.5	1.6	2.9	1.2	1.0	3.3	0.00
2	0.01	0.00	0.52	e2.3	e2.8	e3.5	1.5	2.5	2.5	0.60	1.2	0.00
3	0.02	0.00	0.64	e2.5	e2.5	e3.5	1.4	2.3	2.5	1.2	0.16	0.00
4	0.00	0.00	0.68	e2.5	e2.2	e3.1	3.3	2.3	1.7	0.99	0.00	0.00
5	0.00	0.00	0.60	e2.1	e2.2	e2.6	4.3	2.2	1.3	0.51	0.00	0.00
6	0.00	0.00	0.74	e1.9	e3.3	e2.7	3.9	2.2	1.5	0.37	0.00	0.00
7	0.00	0.00	0.90	e1.9	e3.4	e3.1	3.6	1.9	2.1	0.25	0.00	0.00
8	0.00	0.00	0.93	e2.0	e4.5	e3.6	3.2	1.8	2.1	0.21	0.00	0.00
9	0.00	0.00	e1.0	e2.0	e4.7	e3.6	3.0	2.0	2.1	4.5	0.00	0.00
10	0.00	0.00	e1.1	e1.8	e4.6	e3.1	2.5	2.1	2.0	20	0.00	0.00
11	0.00	0.00	e1.2	e1.6	e4.3	e3.6	2.3	2.0	1.9	9.6	0.00	0.04
12	0.00	0.00	e1.2	e2.5	e3.7	e4.3	2.0	2.0	2.4	5.6	1.4	0.00
13	0.00	0.00	e1.3	e2.5	e3.8	e4.0	1.8	2.0	2.2	3.1	1.5	0.00
14	0.00	0.00	e1.3	e2.3	e4.3	e3.8	1.7	1.7	1.4	4.9	2.3	0.00
15	0.00	0.00	e1.4	e2.0	e3.7	3.8	1.9	1.8	0.98	1.2	2.0	0.00
16	0.00	0.00	1.5	e1.6	e3.0	3.5	2.4	1.9	0.81	1.1	0.92	0.00
17	0.00	0.00	1.7	e1.4	e2.8	3.4	2.4	1.7	0.76	0.78	0.09	0.00
18	0.00	0.00	e1.9	e1.8	e2.8	4.3	2.4	1.4	0.95	0.62	0.00	0.00
19	0.00	0.00	e2.0	e2.6	e3.2	4.1	2.3	1.6	1.4	0.20	0.00	0.00
20	0.00	0.00	e1.7	e2.5	e3.4	3.9	2.8	1.5	1.4	0.16	0.00	0.00
21	0.00	0.00	e1.7	e1.8	e3.6	3.5	2.9	1.3	1.0	0.22	0.00	0.00
22	0.16	0.00	e1.6	e1.4	e3.2	3.9	2.6	1.2	1.0	0.31	0.00	0.00
23	0.00	0.00	e1.4	e1.3	e2.2	6.4	2.7	1.2	0.90	0.17	0.00	0.00
24	0.00	0.00	e1.7	e1.5	e1.7	7.8	3.2	9.0	0.80	0.13	0.00	0.00
25	0.00	0.00	e1.6	e2.2	e1.8	5.6	3.2	4.5	1.4	0.12	0.00	0.00
26	0.00	0.42	e1.5	e2.6	e2.9	4.2	3.4	2.0	1.2	0.06	0.00	0.00
27	0.00	e0.60	e1.8	e2.9	e3.2	3.5	3.8	1.4	1.1	0.17	0.00	0.00
28	0.00	0.47	e2.8	e3.0	e3.4	3.0	4.0	1.3	0.87	0.18	0.00	0.00
29	0.02	0.30	e2.8	e3.0	---	2.6	3.9	1.3	1.4	2.7	0.00	0.00
30	0.00	0.25	e2.9	e3.0	---	2.3	3.5	1.1	1.5	3.9	0.00	0.00
31	0.00	---	e2.8	e2.9	---	1.9	---	1.0	---	3.4	0.00	---
MEAN	0.007	0.068	1.46	2.19	3.23	3.73	2.78	2.10	1.48	2.20	0.42	0.001
MAX	0.16	0.60	2.9	3.0	4.7	7.8	4.3	9.0	2.5	20	3.3	0.04
MIN	0.00	0.00	0.42	1.3	1.7	1.9	1.4	1.0	0.76	0.06	0.00	0.00
AC-FT	0.4	4.0	90	134	179	229	166	129	88	135	26	0.08

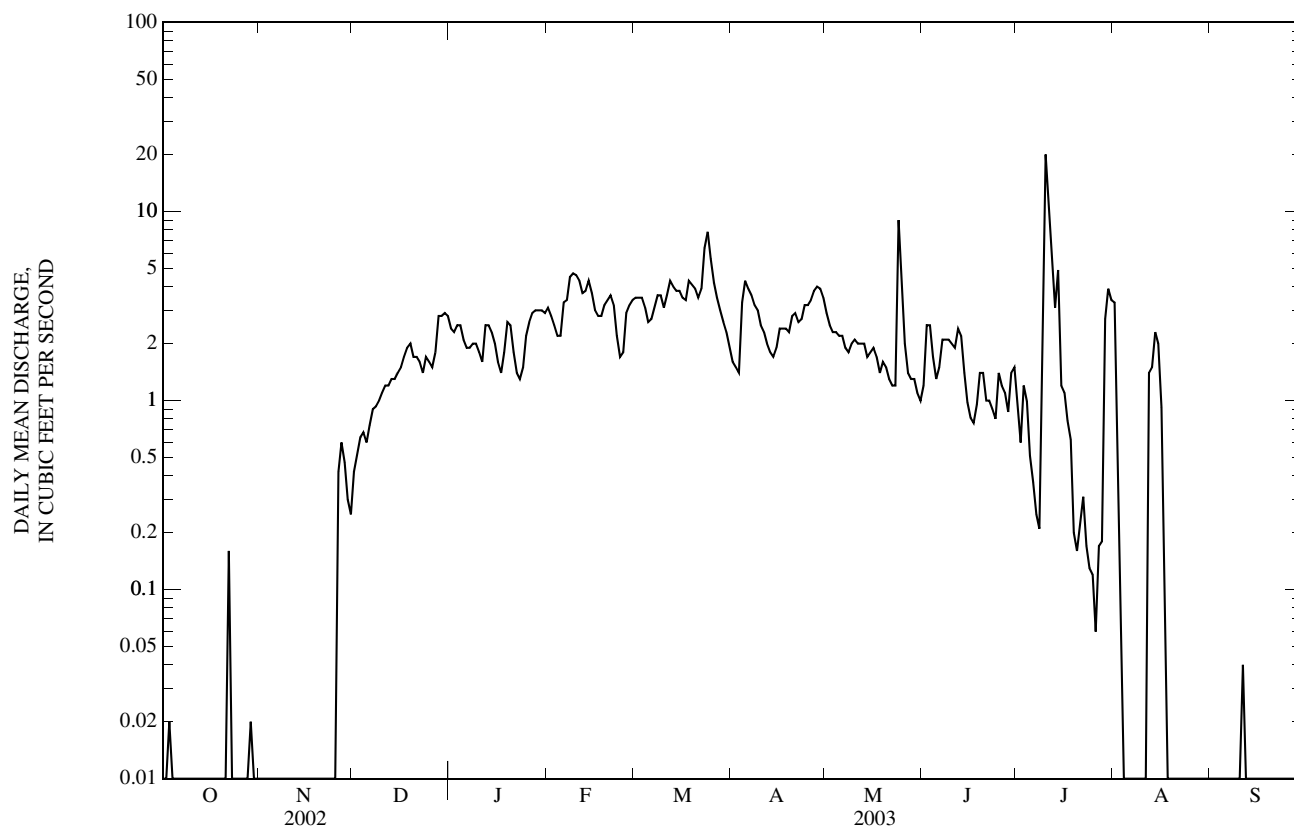
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2003, BY WATER YEAR (WY)

MEAN	18.7	6.46	5.40	5.45	15.8	17.5	10.1	41.8	84.2	60.3	33.6	22.3
MAX	429	56.5	26.0	22.5	230	240	36.6	422	1,041	1,070	430	402
(WY)	(1947)	(1931)	(1947)	(1931)	(1932)	(1960)	(1952)	(1949)	(1947)	(1951)	(1950)	(1951)
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	(1955)	(1956)	(1956)	(1956)	(1957)	(1957)	(1985)	(1992)	(1984)	(1984)	(1959)	(1960)

06848500 PRAIRIE DOG CREEK NEAR WOODRUFF, KS—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1929 - 2003	
ANNUAL MEAN	3.88		1.63		26.1	
HIGHEST ANNUAL MEAN					208	
LOWEST ANNUAL MEAN					0.051	
HIGHEST DAILY MEAN	14	Mar 5	20	Jul 10	9,700	Jun 23, 1947
LOWEST DAILY MEAN	0.00	Jul 17	0.00	Oct 1	0.00	Oct 29, 1945
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 29	0.00	Oct 4	0.00	Oct 5, 1948
MAXIMUM PEAK FLOW			25	Jul 10	15,000	Jun 23, 1947
MAXIMUM PEAK STAGE			3.58	Jul 10	21.04	Jun 23, 1947
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	most years
ANNUAL RUNOFF (AC-FT)	2,810		1,180		18,910	
10 PERCENT EXCEEDS	9.8		3.6		27	
50 PERCENT EXCEEDS	2.8		1.4		4.0	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated



06849000 HARLAN COUNTY LAKE NEAR REPUBLICAN CITY, NE

LOCATION.--Lat 40° 04'10", long 99° 12'30", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T.1 N., R.17 W., Harlan County, Hydrologic Unit 10250009, at left end of spillway on upstream side of Harlan County Dam on Republican River, 2 mi southeast of Republican City and 8 mi southeast of Alma.

DRAINAGE AREA.--20,750 mi², approximately, of which about 13,530 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--November 1952 to current year. Prior to October 1965 published as Harlan County Reservoir near Republican City.

GAGE.--Water-stage recorder: Datum of gage is sea level. Data collection platform at station.

REMARKS.--Reservoir is formed by earthfill dam with gravity-type concrete spillway section; storage began Nov. 14, 1952. Capacity, 313,700 acre-ft between elevations 1,885.0 ft, sill of outlet gates, and 1,946.0 ft, top of storage pool. Top of flood-control pool at elevation 1,973.5 ft, capacity, 814,100 acre-ft. Top of superstorage flood-control pool at elevation 1,975.5 ft, capacity, 861,900 acre-ft. Figures given herein represent total contents. Water used for irrigation in Bostwick irrigation project.

COOPERATION.--Capacity table furnished by Corps of Engineers (revised Jan. 1, 1990 and Jan. 1, 2001). Elevations furnished by Corps of Engineers from October 1994 to September 2003.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 497,700 acre-ft Apr. 6, 1960, elevation, 1,955.67 ft; minimum since operation of reservoir began, 110,300 acre-ft Oct. 22 to Nov. 6, 1953, elevation, 1,922.00 ft.

EXTREMES (AT 0600) FOR 1995-2003

Water Year	Maximum contents (acre-feet)	Elevation (feet)	Elevation date (feet)	Minimum contents (acre-feet)	Elevation (feet)	Date
1995	388,900	1,951.18	Jun 7	249,700	1,940.49	Sep 18
1996	379,700	1,950.57	Aug 10	250,700	1,940.69	Oct 22
1997	371,600	1,950.02	Apr 4	250,800	1,940.70	Sep 21
1998	340,200	1,947.84	Apr 9	253,100	1,940.91	Oct 11
1999	344,200	1,948.12	Jun 21	254,500	1,941.03	Oct 01
2000	335,800	1,947.53	May 18	204,800	1,936.39	Sep 30
2001	314,500	1,945.76	Jun 13	200,100	1,936.15	Oct 21
2002	277,500	1,942.88	Jun 16	161,200	1,932.19	Sep 28
2003	178,700	1,934.06	Jun 17	117,700	1,926.94	Sep 29

Capacity table (elevation, in feet, and contents, in acre-feet)

Jan. 1, 1990 to Dec. 31, 2000			
1,928	128,300	1,940	243,100
1,930	144,300	1,945	302,000
1,935	190,800		

Capacity table (elevation, in feet and contents, in acre-feet)

Jan 1, 2001 to current			
1,928	125,700	1,940	242,500
1,930	141,900	1,945	304,400
1,935	188,300		

RESERVOIR STORAGE (ACRE-FEET), WATER YEARS OCTOBER 1994 TO SEPTEMBER 2003

DAILY OBSERVATION AT 0600 VALUES

06849000 HARLAN COUNTY LAKE NEAR REPUBLICAN CITY, NE—Continued

 RESERVOIR STORAGE, ACRE FEET
 WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 DAILY OBSERVATION AT 0600 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	267,000	268,400	275,800	286,000	296,100	305,500	321,600	337,900	384,200	351,700	306,300	263,100
2	267,000	268,700	275,900	286,000	296,800	306,100	322,000	338,500	385,400	350,300	304,600	261,400
3	267,000	268,600	276,400	286,400	297,300	306,400	322,700	340,200	386,000	348,200	302,900	260,400
4	267,100	268,800	276,400	286,200	297,300	306,500	322,900	341,700	387,200	348,900	301,400	259,300
5	267,000	268,800	277,000	286,300	297,800	307,200	323,300	342,300	387,700	348,200	299,300	258,100
6	267,100	269,100	277,000	286,500	298,200	307,300	323,600	343,000	388,200	347,500	298,000	257,900
7	267,300	269,100	277,800	286,600	298,700	308,500	324,400	343,800	388,900	346,500	296,200	256,400
8	267,100	269,400	278,300	287,000	298,700	308,400	324,800	346,900	385,900	345,800	294,900	255,300
9	267,000	269,600	278,300	287,300	299,000	308,400	325,400	348,600	387,400	344,800	295,900	254,300
10	266,600	269,500	278,400	287,500	299,600	308,700	325,800	350,000	386,800	343,400	294,800	253,400
11	266,500	269,600	278,200	287,800	300,000	307,700	326,600	350,400	385,900	342,000	293,200	252,600
12	266,500	269,600	278,600	288,000	300,000	308,500	327,100	350,000	384,800	340,200	291,300	252,100
13	266,400	270,300	278,600	288,200	300,200	309,100	326,800	351,000	383,500	338,200	289,700	251,200
14	266,400	270,400	278,800	288,600	300,200	309,700	327,100	351,000	382,600	336,200	287,400	250,400
15	266,400	270,300	279,200	288,700	301,000	309,900	327,900	350,900	381,700	334,600	287,100	249,700
16	267,800	270,300	279,800	289,100	300,900	310,200	329,400	350,700	380,200	333,000	286,200	249,600
17	267,200	270,600	279,800	289,600	301,100	310,800	328,600	350,900	379,000	331,100	285,400	249,000
18	267,600	270,600	280,000	289,900	302,800	311,900	331,500	352,000	377,600	329,400	284,400	248,600
19	267,600	270,400	280,200	290,300	302,100	312,300	330,400	351,900	376,000	327,900	283,500	249,200
20	267,800	271,000	280,800	290,700	302,800	313,100	331,400	352,300	374,700	326,700	282,400	249,900
21	268,000	272,600	281,000	291,100	302,900	313,500	332,100	352,300	369,800	325,500	281,200	250,700
22	268,200	272,600	281,400	291,500	303,600	313,800	332,600	352,400	368,200	323,900	280,000	250,700
23	268,200	273,000	281,900	291,800	303,800	314,600	333,200	353,900	366,400	322,100	278,500	250,400
24	268,200	272,600	282,300	292,300	303,900	314,400	333,600	354,900	364,800	320,500	276,900	250,400
25	268,200	273,400	283,100	292,400	304,700	315,100	334,000	355,600	363,100	318,800	275,000	250,400
26	268,100	273,800	283,100	292,800	305,000	317,100	334,300	356,400	361,200	317,200	273,100	250,400
27	268,100	276,300	283,600	293,600	305,200	319,700	334,800	361,700	359,000	315,600	271,500	250,400
28	268,200	275,300	283,800	294,300	305,500	319,700	335,100	370,000	357,300	313,900	269,800	250,300
29	268,300	275,400	284,200	294,600	---	320,000	336,000	375,000	355,700	312,000	268,100	251,000
30	268,300	275,600	284,600	295,100	---	320,400	336,100	379,700	353,700	309,800	266,400	251,400
31	268,400	---	284,300	295,700	---	321,000	---	382,100	---	308,100	264,500	---
MEAN	267,400	271,100	280,000	289,700	300,900	311,800	328,800	352,800	376,400	332,300	286,100	252,900
MAX	268,400	276,300	284,600	295,700	305,500	321,000	336,100	382,100	388,900	351,700	306,300	263,100
MIN	266,400	268,400	275,800	286,000	296,100	305,500	321,600	337,900	353,700	308,100	264,500	248,600
(*)	1942.24	1942.85	1943.66	1944.50	1945.27	1946.45	1947.55	1950.73	1948.80	1945.47	1941.90	1940.76
(**)	+3200	+7200	+8700	+11400	+9800	+15500	+15100	+46000	-28400	-45600	-43600	-13100
	CAL YR	1994	MAX	343100	MIN	265200	(**)	-32700				
	CAL YR	1995	MAX	388900	MIN	248600	(**)	-13800				

(*) Elevation, in feet, at end of month.

(**) Change in contents, in acre-feet.

06849000 HARLAN COUNTY LAKE NEAR REPUBLICAN CITY, NE—Continued

 RESERVOIR STORAGE, ACRE FEET
 WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
 DAILY OBSERVATION AT 0600 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251,300	251,700	257,900	263,800	271,300	280,600	291,700	300,600	323,100	358,600	354,300	353,400
2	251,300	252,100	258,100	264,200	271,900	280,000	292,200	301,100	324,400	358,000	352,900	352,000
3	251,200	252,100	257,900	264,300	271,900	281,300	293,200	301,200	325,200	356,700	356,200	350,900
4	251,100	252,100	258,400	264,800	272,000	281,700	292,900	301,400	326,000	355,300	362,700	348,900
5	252,200	252,100	258,700	264,900	272,400	282,300	293,100	301,900	326,200	353,900	364,800	347,300
6	251,200	252,300	258,700	265,100	272,400	282,500	293,200	301,900	327,800	352,600	365,200	345,400
7	251,100	252,500	258,900	265,200	272,500	282,500	293,400	302,300	328,100	351,600	367,600	344,300
8	250,900	252,600	259,600	265,500	272,600	282,900	294,100	302,900	328,500	352,900	373,900	342,400
9	251,000	252,800	259,200	265,600	272,700	282,900	294,400	303,300	329,300	352,700	379,000	340,700
10	251,000	253,000	259,200	265,700	273,000	283,100	294,600	303,800	329,900	353,100	379,700	339,200
11	251,000	253,400	259,200	266,000	273,300	283,300	294,900	304,100	330,100	353,100	379,100	338,200
12	251,000	253,400	259,200	266,300	273,300	283,800	295,600	304,600	331,800	352,700	378,700	336,900
13	251,800	253,700	259,300	266,700	273,800	284,600	295,400	305,100	332,100	352,000	377,200	335,400
14	251,000	254,000	259,600	266,800	274,100	284,900	295,900	305,500	332,500	353,300	375,700	335,000
15	251,100	254,100	259,700	267,100	274,700	285,200	297,100	306,000	332,500	352,700	374,400	334,600
16	251,100	254,100	259,900	267,600	274,900	285,800	297,200	306,000	334,800	352,000	373,700	334,400
17	251,100	254,800	260,000	268,200	275,400	286,200	297,600	306,700	335,700	351,000	372,300	334,400
18	251,100	254,800	260,700	269,300	275,800	286,600	298,300	306,900	338,600	350,400	371,200	334,600
19	251,000	255,200	260,800	269,100	276,400	287,000	298,300	307,200	340,500	349,200	369,700	334,400
20	251,100	255,300	260,900	269,100	276,900	287,100	298,600	307,200	340,700	349,300	368,000	334,100
21	250,800	255,500	261,000	269,500	277,500	287,300	298,700	307,300	341,000	350,300	366,500	334,000
22	250,700	255,600	261,500	269,700	278,100	287,600	299,000	307,300	341,400	350,200	365,300	333,200
23	251,000	255,800	261,900	269,900	278,900	287,600	299,100	308,000	347,600	349,700	363,900	331,800
24	251,100	256,100	262,100	269,900	278,900	289,000	299,300	308,900	353,000	349,600	362,400	329,900
25	251,000	256,800	262,300	270,300	279,700	289,600	299,700	309,800	356,700	349,000	361,500	327,400
26	251,000	256,900	262,400	270,600	279,700	289,500	299,600	312,200	358,200	348,300	360,900	326,800
27	251,600	257,400	262,500	270,800	280,200	289,400	299,600	314,700	358,900	347,600	359,000	325,200
28	251,300	257,100	262,800	271,000	280,600	289,700	299,700	316,400	359,200	347,600	357,600	323,500
29	251,100	257,100	262,900	271,200	280,600	290,100	300,600	318,500	359,600	352,700	356,000	321,900
30	251,000	257,400	263,200	271,300	---	291,000	300,500	320,000	359,300	355,300	355,100	320,000
31	251,200	---	263,600	271,300	---	291,500	---	321,400	---	355,400	354,400	---
MEAN	251,100	254,400	260,400	267,800	275,400	285,700	296,600	307,200	338,400	352,200	366,400	336,300
MAX	252,200	257,400	263,600	271,300	280,600	291,500	300,600	321,400	359,600	358,600	379,700	353,400
MIN	250,700	251,700	257,900	263,800	271,300	280,000	291,700	300,600	323,100	347,600	352,900	320,000
(*)	1940.74	1941.29	1941.82	1942.49	1943.27	1944.16	1944.88	1946.48	1949.19	1948.92	1948.85	1946.37
(**)	-200	+6200	+6200	+7700	+9300	+10900	+9000	+20900	+37900	-3900	-1000	-34400
	CAL YR	1995	MAX	38890	MIN	248600	(**)	-20700				
	WTR YR	1996	MAX	379700	MIN	250700	(**)	+68600				

(*) Elevation, in feet, at end of month.

(**) Change in contents, in acre-feet.

06849000 HARLAN COUNTY LAKE NEAR REPUBLICAN CITY, NE—Continued

 RESERVOIR STORAGE, ACRE FEET
 WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
 DAILY OBSERVATION AT 0600 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	318,700	294,400	301,000	306,900	325,500	348,600	369,200	343,000	343,000	336,800	284,700	255,600
2	317,500	294,800	301,900	307,600	326,200	349,400	370,400	343,600	342,900	335,700	283,200	255,000
3	315,500	295,400	302,900	308,200	326,800	350,300	371,200	343,400	342,900	333,900	281,800	254,300
4	314,400	296,700	303,300	308,900	327,800	351,000	371,300	343,300	342,900	331,900	280,200	253,900
5	313,100	296,200	304,500	309,700	328,500	351,900	370,100	343,400	342,700	330,400	278,200	253,600
6	311,500	296,400	305,000	310,500	329,200	352,300	368,800	343,100	342,600	328,800	277,100	253,500
7	310,100	296,400	305,900	311,200	330,000	353,400	367,400	343,000	343,100	327,000	275,700	253,100
8	309,100	297,100	306,400	311,800	331,000	354,000	365,500	343,100	342,900	325,100	274,000	253,000
9	307,400	298,100	307,100	312,600	331,800	354,700	364,000	342,900	343,100	323,700	272,300	252,900
10	306,500	298,500	308,000	313,200	332,700	355,400	363,100	342,400	342,400	322,400	271,000	252,700
11	304,300	298,700	308,500	313,800	333,400	356,300	362,600	342,600	342,400	321,200	269,700	252,500
12	302,100	299,300	309,400	314,300	334,100	356,600	361,100	342,200	343,000	319,700	269,300	252,000
13	300,500	299,700	310,100	314,700	335,000	357,700	359,600	351,700	344,300	318,300	268,100	252,200
14	299,100	300,000	311,000	315,100	335,800	358,300	358,200	341,600	343,400	316,700	267,400	251,900
15	298,000	301,300	311,800	315,700	336,600	358,900	356,700	341,300	343,600	315,000	266,800	252,200
16	296,600	303,300	312,300	316,100	337,500	359,500	355,600	340,900	343,600	313,100	266,400	252,100
17	295,100	305,900	313,200	316,500	338,300	360,200	354,300	341,000	343,300	311,200	265,900	251,900
18	293,400	306,500	313,500	317,100	339,300	361,100	353,300	341,200	342,600	309,500	265,200	251,800
19	293,300	307,600	311,200	317,600	340,000	361,700	352,000	340,700	342,400	308,100	264,600	251,900
20	292,600	308,100	309,000	318,100	340,900	362,400	350,900	340,500	341,600	306,000	264,300	251,700
21	291,800	306,800	308,600	318,700	341,900	363,100	349,300	340,200	340,900	304,200	263,900	251,300
22	290,700	305,100	308,500	319,400	342,700	363,600	348,200	339,900	340,000	302,300	263,500	250,900
23	289,900	303,800	308,400	320,000	343,600	364,200	346,800	340,200	338,200	300,500	262,800	252,600
24	289,100	302,000	308,100	320,600	344,400	364,800	345,400	341,000	337,200	298,500	262,300	253,600
25	288,700	300,400	307,800	321,300	345,600	365,600	344,300	340,700	337,800	296,600	261,800	253,900
26	290,500	298,600	307,700	322,000	346,300	365,900	344,000	341,700	337,500	294,700	261,000	253,900
27	291,000	297,400	307,400	322,700	347,200	366,500	343,600	342,300	336,900	292,800	259,900	253,900
28	291,800	298,200	307,200	323,100	347,900	368,300	342,900	342,700	337,900	291,300	258,900	254,000
29	292,100	299,000	306,800	323,500	---	368,600	342,700	342,700	338,500	289,500	258,100	254,000
30	292,600	300,500	306,400	324,100	---	368,800	343,600	343,000	338,100	287,900	257,100	254,000
31	293,300	---	306,300	324,800	---	368,900	---	343,000	---	286,300	256,300	---
MEAN	300,000	300,200	307,700	316,100	336,400	359,400	356,500	342,300	341,400	312,200	268,100	253,000
MAX	318,700	308,100	313,500	324,800	347,900	368,900	371,300	351,700	344,300	336,800	284,700	255,600
MIN	288,700	294,400	301,000	306,900	325,500	348,600	342,700	339,900	336,900	286,300	256,300	250,900
(*)	1944.31	1944.88	1945.33	1946.73	1948.39	1949.84	1948.08	1948.04	1947.69	1943.74	1941.19	1940.99
(**)	-26700	+7200	+5800	+18500	+23100	+21000	-25300	-600	-4900	-51800	-30000	-2300
	CAL YR	1996	MAX	379700	MIN	263800	(**)	+42700				
	WTR YR	1997	MAX	371300	MIN	250900	(**)	-66000				

(*) Elevation, in feet, at end of month.

(**) Change in contents, in acre-feet.

06849000 HARLAN COUNTY LAKE NEAR REPUBLICAN CITY, NE—Continued

 RESERVOIR STORAGE, ACRE FEET
 WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
 DAILY OBSERVATION AT 0600 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254,000	261,900	272,500	286,000	298,700	313,800	333,700	336,600	336,200	312,800	284,100	260,000
2	254,000	262,800	273,000	286,400	314,900	314,000	333,700	336,600	336,100	311,100	284,700	260,000
3	253,900	262,400	273,900	287,000	299,800	314,200	334,800	336,600	335,800	308,700	284,600	259,700
4	253,700	262,300	274,400	287,400	300,400	314,300	335,200	336,400	335,400	306,400	284,300	259,500
5	253,700	262,900	274,700	287,600	300,900	315,000	335,600	336,500	335,500	305,100	283,700	259,300
6	253,900	263,100	274,900	288,200	301,400	315,200	336,400	336,500	335,400	303,300	283,200	259,000
7	253,800	263,300	275,000	288,600	301,800	315,700	338,800	336,900	335,300	301,600	282,600	258,700
8	253,600	263,700	275,200	288,900	302,100	316,500	339,600	336,500	335,300	300,600	281,500	258,200
9	253,800	264,200	275,600	289,400	302,700	317,300	340,300	336,500	336,400	300,500	280,700	257,800
10	253,500	264,400	276,300	289,600	303,900	317,100	340,100	336,500	336,100	300,500	280,000	257,600
11	253,400	264,500	276,700	289,900	318,600	317,500	339,400	336,800	336,400	300,400	278,600	257,300
12	254,700	264,800	277,100	290,100	318,800	317,700	339,400	336,800	336,500	300,000	277,600	257,200
13	254,800	265,200	277,300	290,200	305,600	318,100	338,800	336,500	336,200	299,200	276,500	257,100
14	254,900	265,800	277,600	290,500	306,100	318,500	337,600	336,800	336,400	298,500	275,400	257,100
15	254,900	265,800	277,900	290,700	306,800	319,100	337,200	336,200	336,000	297,600	274,300	256,900
16	255,000	265,800	278,500	290,800	320,700	319,600	337,200	336,400	335,000	296,300	273,000	256,800
17	255,000	265,800	278,800	291,300	322,100	320,800	336,400	336,100	334,100	294,900	272,000	256,600
18	255,000	266,300	279,400	291,800	322,800	321,600	336,400	335,800	333,300	292,900	271,000	256,500
19	255,200	266,600	279,800	292,300	309,000	322,000	336,600	336,000	332,100	291,700	269,700	256,300
20	255,300	266,800	280,300	292,800	309,500	322,800	337,000	336,100	330,800	290,100	268,600	255,800
21	255,400	267,100	280,800	293,400	310,100	323,200	336,700	336,500	329,000	288,200	267,100	255,400
22	255,400	267,500	281,400	293,800	310,600	323,600	336,700	336,800	328,300	287,400	266,200	255,200
23	255,500	268,000	281,900	294,400	311,200	324,100	336,800	336,400	326,400	285,800	265,100	255,200
24	255,600	268,400	282,300	294,800	311,500	324,700	336,600	336,400	325,400	284,800	263,800	255,200
25	257,000	268,700	282,900	295,200	312,000	325,500	337,100	336,400	323,900	283,600	262,500	255,000
26	258,200	269,300	283,300	295,700	312,700	326,300	337,100	336,200	322,000	283,600	261,500	255,000
27	259,600	269,500	283,800	296,100	313,200	326,800	336,800	335,700	320,100	282,900	261,100	254,800
28	260,000	269,800	284,300	296,600	313,500	328,500	336,600	335,500	318,700	282,900	260,900	254,700
29	260,300	270,600	284,800	296,900	---	330,300	337,000	336,200	316,500	283,100	260,600	254,800
30	260,900	271,500	285,700	297,400	---	331,900	337,100	336,200	315,000	284,000	260,300	254,900
31	261,200	---	285,700	298,300	---	333,200	---	336,200	---	284,200	259,900	---
MEAN	255,700	266,000	278,900	291,700	309,300	320,900	337,100	336,400	331,000	294,900	272,700	256,900
MAX	261,200	271,500	285,700	298,300	322,800	333,200	340,300	336,900	336,500	312,800	284,700	260,000
MIN	253,400	261,900	272,500	286,000	298,700	313,800	333,700	335,500	315,000	282,900	259,900	254,700
(*)	1941.62	1942.50	1943.69	1944.71	1945.88	1947.30	1947.59	1947.56	1945.99	1943.57	1941.50	1941.07
(**)	+7200	+10300	+14200	+12600	+15200	+19700	+3900	-900	-21200	-30800	-24300	-5000
	CAL YR	1997	MAX	371300	MIN	250900	(**)	-20600				
	WTR YR	1998	MAX	340300	MIN	253400	(**)	-900				

(*) Elevation, in feet, at end of month.

(**) Change in contents, in acre-feet.

06849000 HARLAN COUNTY LAKE NEAR REPUBLICAN CITY, NE—Continued

 RESERVOIR STORAGE, ACRE FEET
 WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
 DAILY OBSERVATION AT 0600 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254,500	256,300	264,600	270,400	279,100	289,400	299,500	311,500	333,600	340,700	299,500	281,200
2	255,200	257,400	264,800	270,200	280,000	289,000	299,600	311,800	334,500	340,500	299,100	280,200
3	255,300	257,700	265,000	270,300	280,400	289,100	300,600	312,900	335,600	340,400	299,100	279,500
4	255,300	257,800	265,300	271,300	280,900	289,200	300,600	313,300	336,300	339,000	298,700	279,400
5	255,200	258,000	265,600	270,900	281,300	289,700	301,100	314,800	336,700	337,400	297,900	278,800
6	255,000	258,000	265,800	271,200	281,800	290,100	301,800	315,100	336,400	336,000	297,800	278,200
7	254,900	258,100	265,900	271,000	282,400	290,000	302,300	315,500	337,200	334,500	296,900	277,700
8	254,800	258,800	266,300	271,200	283,100	290,100	302,800	315,000	338,300	333,000	295,900	278,000
9	254,800	258,900	266,400	271,300	282,700	291,700	303,300	315,100	338,300	331,000	295,800	277,600
10	254,800	260,700	266,600	272,000	283,100	291,200	303,600	315,800	338,600	329,500	294,900	277,200
11	254,900	259,400	266,700	271,700	282,800	291,900	303,400	316,200	339,600	327,800	293,700	277,600
12	255,000	259,700	267,100	272,200	282,900	292,000	303,400	316,700	338,600	325,900	294,000	278,200
13	255,000	260,100	267,300	272,500	283,200	292,400	303,700	316,700	340,800	324,100	294,700	278,400
14	255,000	260,600	267,500	272,800	283,800	292,900	305,000	316,500	342,400	322,200	293,300	278,000
15	255,200	260,600	267,800	273,200	284,400	293,300	305,200	319,600	342,700	320,400	293,300	278,000
16	254,800	260,900	268,100	273,300	284,600	293,700	305,700	321,000	343,000	320,700	293,600	277,800
17	255,700	261,000	268,200	273,600	284,800	294,500	306,000	320,200	343,900	320,200	292,300	278,200
18	255,500	261,400	268,600	274,000	286,300	294,600	306,000	320,400	343,700	319,100	291,800	278,200
19	255,300	261,200	268,600	274,300	285,400	294,500	306,600	320,700	344,000	318,200	291,300	278,200
20	255,400	261,700	268,700	274,700	285,800	295,400	306,800	321,800	344,000	317,100	290,100	278,400
21	255,700	261,900	268,700	275,000	285,900	295,800	306,800	325,300	344,200	315,900	290,300	278,800
22	255,500	262,100	268,700	275,400	286,200	295,900	307,300	325,900	343,700	314,500	288,300	278,800
23	255,400	262,200	268,800	275,600	286,900	296,400	307,800	327,700	343,200	313,200	287,100	278,800
24	255,700	262,400	268,900	275,900	287,200	296,700	308,200	328,100	342,600	311,500	287,000	278,800
25	256,100	263,000	268,900	276,300	287,300	296,900	308,400	328,900	342,000	310,100	285,800	278,700
26	255,800	263,100	269,000	276,500	287,800	297,000	309,500	329,500	341,200	308,800	285,000	278,400
27	256,300	263,300	269,100	277,000	288,100	297,400	310,100	330,300	340,700	307,200	284,300	278,200
28	256,400	263,700	269,300	277,200	288,300	298,600	310,500	331,200	340,800	305,700	282,600	278,300
29	256,900	264,100	269,500	277,600	---	299,200	310,600	331,200	339,800	304,100	282,200	278,300
30	256,400	264,400	269,600	278,100	---	298,400	311,500	331,500	339,800	302,300	282,800	278,400
31	256,300	---	269,900	278,500	---	299,100	---	331,200	---	300,600	281,800	---
MEAN	255,400	260,600	267,600	273,700	284,200	293,700	305,300	321,000	340,200	321,700	291,600	278,500
MAX	256,900	264,400	269,900	278,500	288,300	299,200	311,500	331,500	344,200	340,700	299,500	281,200
MIN	254,500	256,300	264,600	270,200	279,100	289,000	299,500	311,500	333,600	300,600	281,800	277,200
(*)	1941.19	1941.89	1942.37	1943.08	1943.90	1944.75	1945.72	1947.18	1947.81	1944.87	1943.35	1943.07
(**)	+1400	+8100	+5500	+8600	+9800	+10800	+12400	+19700	+8600	-39200	-18800	-3400
	CAL YR	1998	MAX	340300	MIN	254500	(**)	-15800				
	WTR YR	1999	MAX	344200	MIN	254500	(**)	+23500				

(*) Elevation, in feet, at end of month.

(**) Change in contents, in acre-feet.

06849000 HARLAN COUNTY LAKE NEAR REPUBLICAN CITY, NE—Continued

 RESERVOIR STORAGE, ACRE FEET
 WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
 DAILY OBSERVATION AT 0600 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	278,200	278,900	284,300	292,300	302,500	320,000	331,400	332,200	332,600	296,300	260,400	210,500
2	278,200	279,000	284,500	293,100	303,100	320,300	330,800	332,500	331,800	295,200	258,700	210,500
3	278,200	279,300	285,200	293,500	303,600	321,900	330,400	332,700	330,800	294,200	256,900	210,200
4	278,200	279,500	285,300	293,800	304,100	322,300	329,500	333,000	330,800	292,700	254,600	209,800
5	278,000	279,700	285,700	293,500	304,500	322,900	328,900	333,100	330,000	292,400	252,900	209,600
6	277,600	280,000	285,400	293,800	305,000	323,600	328,600	333,400	328,900	291,900	250,200	209,300
7	277,600	280,100	286,000	294,000	305,400	323,800	328,500	333,700	327,800	291,200	249,000	208,900
8	278,100	280,100	286,000	294,200	305,900	325,300	327,000	334,200	326,700	289,700	247,000	208,900
9	278,200	280,100	286,800	294,600	306,400	325,900	326,400	334,600	325,500	287,900	245,100	208,700
10	278,200	280,200	286,400	295,000	307,000	326,400	325,200	334,400	324,300	286,400	243,300	208,400
11	278,200	280,400	286,800	295,000	307,500	327,000	325,900	334,900	322,700	284,500	241,400	208,400
12	278,300	280,800	287,500	295,400	307,800	327,500	326,000	335,100	321,500	282,800	239,300	208,100
13	278,400	281,200	287,500	295,400	308,200	328,100	326,400	335,100	319,600	280,900	237,300	207,900
14	278,400	281,400	287,300	295,800	308,700	328,900	326,900	334,400	318,200	279,000	235,500	207,600
15	278,400	281,500	287,700	296,500	309,200	329,900	327,100	334,200	315,900	277,000	233,800	207,300
16	278,400	281,400	287,800	296,500	309,700	329,900	327,800	334,500	314,100	275,100	232,000	207,000
17	278,400	281,800	288,200	296,900	310,100	330,300	327,900	334,600	311,900	273,000	230,200	206,800
18	278,400	281,800	288,200	297,300	310,700	330,800	328,200	336,000	310,600	275,700	227,900	206,400
19	278,400	281,800	288,500	298,100	311,100	331,800	328,800	335,600	308,400	276,600	226,200	206,100
20	278,400	282,000	288,900	298,300	311,600	331,500	329,000	335,700	307,900	275,100	224,500	206,900
21	278,400	282,400	289,100	298,400	312,000	332,500	328,900	335,900	306,800	275,100	222,900	206,300
22	278,500	282,600	289,200	299,000	312,500	333,000	328,900	336,000	305,400	274,400	221,600	206,300
23	278,400	282,600	289,200	298,800	312,900	333,300	329,300	335,700	304,800	273,200	220,300	205,900
24	278,400	283,300	289,600	299,600	315,000	334,800	329,600	335,300	304,500	272,500	219,100	205,700
25	278,500	283,500	290,000	300,400	315,500	334,500	330,800	334,500	303,100	271,900	218,200	205,700
26	278,500	283,700	290,400	300,400	317,600	334,400	330,300	334,400	302,300	270,700	216,600	205,300
27	278,500	283,800	290,800	300,800	317,100	333,700	331,000	334,600	301,100	269,300	215,000	205,300
28	278,500	284,000	291,200	301,100	317,300	333,000	330,500	334,200	299,900	267,700	214,300	205,300
29	278,500	284,100	291,200	301,500	318,000	332,600	330,700	334,100	298,300	265,900	212,900	205,000
30	278,500	284,100	291,500	301,900	---	332,300	331,200	333,600	297,600	264,000	212,300	204,800
31	278,500	---	292,300	302,200	---	331,600	---	333,000	---	262,200	211,300	---
MEAN	278,300	281,500	288,000	297,000	309,700	328,800	328,700	334,400	315,500	279,500	233,200	207,400
MAX	278,500	284,100	292,300	302,200	318,000	334,800	331,400	336,000	332,600	296,300	260,400	210,500
MIN	277,600	278,900	284,300	292,300	302,500	320,000	325,200	332,200	297,600	262,200	211,300	204,800
(*)	1943.08	1943.55	1944.22	1944.99	1946.21	1947.21	1947.18	1947.31	1944.63	1941.70	1937.02	1936.39
(**)	+100	+5600	+8200	+9900	+15800	+13600	-400	+1800	-35400	-35400	-50900	-3500
	CAL YR	1999	MAX	344200	MIN	270200	(**)	+22400				
	WTR YR	2000	MAX	336000	MIN	204800	(**)	-77200				

(*) Elevation, in feet, at end of month.

(**) Change in contents, in acre-feet.

06849000 HARLAN COUNTY LAKE NEAR REPUBLICAN CITY, NE—Continued

 RESERVOIR STORAGE, ACRE FEET
 WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY OBSERVATION AT 0600 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204,800	206,300	211,000	213,400	223,000	234,200	265,000	284,300	306,500	302,600	274,800	238,200
2	204,700	206,400	210,700	213,400	223,200	234,800	265,600	286,300	309,500	300,700	273,700	237,000
3	204,500	206,300	210,900	213,700	223,600	235,300	265,900	287,000	310,300	299,400	272,100	236,300
4	204,600	206,700	211,200	213,800	224,000	235,900	266,600	287,800	310,400	297,800	270,300	235,600
5	204,300	206,800	211,100	213,900	224,200	236,700	267,800	293,200	311,200	296,500	268,100	234,600
6	204,000	207,900	211,500	214,100	224,600	237,500	268,200	295,200	312,100	295,600	265,900	233,800
7	203,800	207,800	211,800	214,400	223,600	239,200	270,100	296,100	312,500	294,800	263,900	233,700
8	203,600	207,700	212,000	214,600	224,100	241,400	270,300	297,000	312,700	293,500	261,900	233,300
9	203,500	207,800	212,100	214,700	225,400	243,700	271,200	298,000	313,200	292,100	260,400	233,800
10	203,200	207,700	212,500	214,900	225,600	246,300	271,600	298,500	313,300	291,200	258,200	233,200
11	202,900	207,800	212,600	215,100	225,800	248,100	273,300	299,700	313,800	288,400	256,500	233,000
12	202,800	208,900	212,600	215,400	225,900	249,800	274,700	300,100	314,000	287,700	254,800	232,800
13	202,900	208,800	212,600	215,800	226,100	250,800	274,900	300,700	314,400	285,900	253,200	232,600
14	202,800	208,700	212,700	216,200	226,500	251,900	275,500	301,200	314,500	284,400	251,900	232,300
15	203,000	208,400	212,700	216,500	226,800	253,100	276,400	301,500	314,400	282,900	251,000	233,900
16	202,700	208,600	212,900	216,800	227,100	254,200	276,500	302,100	314,100	281,500	249,400	235,200
17	202,800	208,700	213,100	217,000	227,400	254,900	277,000	302,400	314,100	280,000	248,700	235,400
18	202,800	208,800	213,200	217,300	227,700	255,600	277,300	303,000	314,200	278,400	248,000	236,500
19	202,600	208,700	213,400	217,500	228,100	256,600	277,600	303,300	313,300	276,800	247,000	237,200
20	202,400	208,800	213,600	217,500	228,300	257,200	278,400	303,700	313,300	277,600	246,300	237,500
21	202,600	208,900	213,600	218,000	228,500	258,000	279,000	304,300	313,600	276,600	244,400	237,800
22	202,400	209,000	213,600	218,100	228,900	258,600	280,000	304,200	313,100	275,800	243,500	237,300
23	203,500	209,200	213,900	218,300	229,100	259,200	281,400	304,400	312,800	274,900	241,900	237,300
24	203,700	209,300	214,000	218,500	229,800	260,300	281,500	304,200	312,100	274,300	242,900	237,000
25	204,200	209,500	214,200	218,700	231,100	260,900	282,400	304,300	311,500	274,700	243,400	237,000
26	204,300	209,700	214,300	219,400	231,800	261,500	283,500	304,400	310,000	273,800	243,400	237,000
27	204,200	209,800	214,600	219,400	233,000	262,000	284,400	304,600	308,400	275,500	243,000	236,900
28	204,600	210,000	214,800	219,700	233,800	262,700	284,800	305,100	307,000	276,500	242,400	236,800
29	205,300	210,300	214,700	220,200	---	263,200	285,000	305,400	305,600	276,800	241,500	236,700
30	205,400	209,900	214,800	221,100	---	263,900	285,400	307,900	304,200	276,500	239,900	236,500
31	205,400	---	215,000	221,200	---	264,800	---	308,300	---	275,800	239,300	---
MEAN	203,700	208,400	213,000	216,700	227,000	251,400	275,700	299,900	311,700	284,500	253,000	235,500
MAX	205,400	210,300	215,000	221,200	233,800	264,800	285,400	308,300	314,500	302,600	274,800	238,200
MIN	202,400	206,300	210,700	213,400	223,000	234,200	265,000	284,300	304,200	273,800	239,300	232,300
(*)	1936.45	1936.89	1937.38	1938.12	1939.24	1941.85	1943.51	1945.29	1944.98	1942.74	1939.72	1939.48
(**)	-600	+4500	+5100	+6200	+12600	+31000	+20600	+22900	-4100	-28400	-36500	-2800
	CAL YR	2000	MAX	336000	MIN	202400	(**)	-82100				
	WTR YR	2001	MAX	314500	MIN	202400	(**)	+30500				

(*) Elevation, in feet, at end of month.

(**) Change in contents, in acre-feet.

06849000 HARLAN COUNTY LAKE NEAR REPUBLICAN CITY, NE—Continued

 RESERVOIR STORAGE, ACRE FEET
 WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
 DAILY OBSERVATION AT 0600 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236,700	236,000	238,700	242,900	248,500	255,000	264,000	270,000	276,200	256,400	194,000	166,200
2	236,500	236,000	238,700	242,900	248,600	255,000	264,400	270,100	276,200	254,100	191,800	166,100
3	236,400	236,100	238,800	243,000	248,700	255,500	264,500	270,100	276,300	252,300	189,700	165,800
4	235,900	236,100	239,200	243,200	248,800	255,900	264,500	270,300	275,900	250,500	187,800	165,600
5	236,000	236,100	239,800	243,200	249,100	256,000	264,700	270,200	276,500	248,500	186,000	165,200
6	236,000	236,200	239,500	243,400	249,300	256,400	264,800	270,500	276,400	246,700	184,000	165,100
7	235,900	236,300	239,800	243,500	249,500	256,700	265,300	270,600	276,200	244,900	181,900	165,000
8	235,600	236,300	239,600	243,700	249,800	256,900	265,600	270,800	275,800	243,000	180,000	164,600
9	235,600	236,400	240,000	243,800	250,100	257,300	265,900	270,900	275,900	241,100	179,000	164,500
10	236,000	236,500	240,200	244,100	250,600	257,700	266,100	270,600	275,500	239,200	177,400	164,400
11	235,900	236,500	240,100	244,300	250,500	258,000	266,600	272,300	275,500	237,100	175,600	164,200
12	235,600	236,400	240,500	244,500	250,800	258,300	266,400	272,400	275,000	234,900	174,000	164,000
13	236,300	236,500	240,800	244,800	251,100	258,800	267,100	272,700	275,000	232,900	173,000	163,900
14	236,100	236,800	241,000	245,000	251,300	259,300	267,500	272,700	275,000	230,800	171,800	163,900
15	236,500	237,000	241,100	245,600	251,800	259,500	267,600	272,800	274,700	228,700	171,000	163,900
16	236,300	237,000	241,400	245,900	252,000	259,700	267,600	273,200	277,500	226,600	169,800	163,600
17	236,100	237,000	241,500	246,000	252,300	259,900	267,800	273,400	277,500	224,500	169,500	163,200
18	236,100	237,300	241,600	246,100	253,000	260,100	268,000	273,300	277,000	222,400	168,700	163,800
19	236,100	237,600	241,800	245,900	253,300	260,800	267,800	273,500	276,400	220,200	168,100	163,400
20	236,200	237,500	241,900	246,200	253,600	261,100	267,800	273,400	275,400	218,100	167,400	163,100
21	236,000	237,500	241,900	246,300	253,900	261,400	268,500	273,400	274,800	216,000	167,200	162,800
22	236,000	237,800	242,200	246,600	254,100	261,500	268,500	273,200	273,700	214,500	167,300	162,800
23	236,100	237,500	242,600	246,700	254,400	261,600	268,700	273,500	272,200	212,300	167,100	162,500
24	236,400	237,700	242,500	246,700	254,800	261,500	268,800	273,400	270,600	210,000	167,300	161,900
25	236,300	238,700	242,400	246,800	254,900	262,100	268,800	274,400	268,700	208,100	167,300	161,900
26	235,900	239,000	242,500	246,900	255,500	262,300	267,500	274,200	266,600	206,100	167,100	161,700
27	235,700	239,200	242,600	247,200	255,000	262,700	269,500	275,700	264,900	203,900	166,900	161,500
28	235,600	238,600	242,600	247,400	255,300	263,000	269,600	275,900	263,100	202,000	166,800	161,200
29	235,600	238,500	242,800	247,700	---	263,300	269,600	276,000	260,900	199,900	166,800	161,200
30	235,700	238,600	242,800	247,500	---	263,600	269,600	276,000	258,600	198,000	166,500	161,300
31	235,900	---	242,900	248,100	---	263,700	---	276,200	---	195,900	166,400	---
MEAN	236,000	237,200	241,100	245,400	251,800	259,500	267,100	272,800	273,100	226,400	174,100	163,600
MAX	236,700	239,200	242,900	248,100	255,500	263,700	269,600	276,200	277,500	256,400	194,000	166,200
MIN	235,600	236,000	238,700	242,900	248,500	255,000	264,000	270,000	258,600	195,900	166,400	161,200
(*)	1939.42	1939.66	1940.03	1940.47	1941.07	1941.76	1942.24	1942.77	1941.34	1935.75	1932.75	1932.20
(**)	-600	+2700	+4300	+5200	+7200	+8400	+5900	+6600	-17600	-62700	-29500	-5100
	CAL YR	2001	MAX	314500	MIN	213400	(**)	+27900				
	WTR YR	2002	MAX	277500	MIN	161200	(**)	-75200				

(*) Elevation, in feet, at end of month.

(**) Change in contents, in acre-feet.

06849000 HARLAN COUNTY LAKE NEAR REPUBLICAN CITY, NE—Continued

 RESERVOIR STORAGE, ACRE FEET
 WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
 DAILY OBSERVATION AT 0600 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161,200	162,700	161,500	160,500	160,100	161,400	164,300	170,800	175,500	178,600	140,700	121,200
2	162,100	162,600	161,500	160,500	160,100	161,500	164,300	170,800	176,600	178,100	139,700	121,000
3	161,900	162,600	161,300	160,500	160,500	161,600	164,500	170,900	176,400	177,600	138,600	120,900
4	162,600	162,600	161,200	160,500	160,500	161,400	164,400	170,400	177,400	176,500	137,100	120,800
5	162,300	162,600	161,200	160,500	160,500	161,600	164,600	170,300	177,500	176,000	136,100	120,600
6	162,500	162,500	161,200	160,400	160,500	161,600	165,000	170,700	177,700	175,100	134,800	120,400
7	162,000	162,400	161,300	160,500	160,500	161,600	165,200	170,400	177,600	174,300	133,700	120,300
8	161,900	162,700	161,100	160,500	160,400	161,800	165,200	170,400	177,900	173,600	132,400	120,000
9	161,800	162,400	161,000	160,400	160,400	161,800	165,100	171,100	177,700	172,000	131,100	120,400
10	161,800	162,500	161,100	160,400	160,500	161,700	165,000	171,300	177,900	171,100	130,300	120,100
11	161,700	162,300	161,000	160,300	160,500	161,900	165,200	171,300	177,800	169,600	129,000	120,600
12	161,700	162,300	161,100	160,200	160,500	162,000	165,300	171,100	178,800	168,700	128,000	120,400
13	161,600	162,100	161,200	160,200	160,500	162,200	165,300	171,400	178,700	167,200	126,700	120,200
14	161,200	162,400	161,100	160,300	160,800	162,200	165,400	171,800	178,600	165,500	125,600	120,100
15	161,300	162,300	161,000	159,900	161,000	162,500	165,500	171,500	178,800	164,400	124,900	120,000
16	160,900	162,300	160,900	160,300	160,900	162,500	165,900	171,700	178,800	162,700	124,400	119,800
17	161,100	162,300	160,800	160,100	161,100	162,600	165,800	172,000	178,900	161,600	123,900	119,600
18	160,900	162,000	161,000	160,100	161,100	163,000	165,600	172,000	178,700	160,000	123,200	119,500
19	160,700	162,300	161,200	160,100	161,100	163,300	165,700	172,700	178,400	158,500	122,900	119,300
20	160,600	162,200	161,200	160,100	161,200	163,700	166,300	172,500	178,100	157,200	123,000	118,900
21	160,500	162,100	160,500	159,900	161,300	163,800	166,000	172,600	178,100	155,900	123,000	118,900
22	160,400	162,000	160,700	160,000	161,400	163,900	165,800	172,900	177,800	154,900	122,800	119,100
23	161,800	162,000	160,500	160,000	161,200	163,900	165,700	173,200	177,100	153,300	122,700	118,800
24	162,000	161,700	160,600	160,100	161,500	164,000	166,800	175,100	177,500	151,800	122,500	118,700
25	162,000	161,800	160,800	160,000	161,400	164,200	167,400	174,900	178,400	150,400	122,400	118,600
26	161,900	161,900	160,600	159,900	161,400	164,200	167,600	175,100	177,900	148,800	122,200	118,500
27	161,800	161,600	160,600	159,900	161,400	164,400	167,600	175,200	177,900	147,600	122,000	118,300
28	162,200	161,600	160,500	159,900	161,400	164,400	167,800	175,300	177,900	146,100	122,000	118,000
29	162,200	161,700	160,600	159,900	---	164,300	168,800	175,500	178,600	145,000	121,900	117,800
30	162,700	161,700	160,600	159,900	---	164,200	169,800	175,600	178,600	143,700	121,300	117,700
31	162,500	---	160,500	160,100	---	164,200	---	175,600	---	142,200	121,300	---
MEAN	161,700	162,200	160,900	160,200	160,800	162,800	165,900	172,500	177,900	162,200	127,400	119,600
MAX	162,700	162,700	161,500	160,500	161,500	164,400	169,800	175,600	178,900	178,600	140,700	121,200
MIN	160,400	161,600	160,500	159,900	160,100	161,400	164,300	170,300	175,500	142,200	121,300	117,700
(*)	1932.33	1932.24	1932.11	1932.07	1932.21	1932.51	1933.11	1933.72	1934.03	1930.04	1927.42	1926.92
(**)	+1200	-800	-1200	-400	+1300	+2800	+5600	+5800	+3000	-36400	-57300	-3600
	CAL YR	2002	MAX	277500	MIN	160400	(**)	-82400				
	WTR YR	2003	MAX	178900	MIN	117700	(**)	-80000				

(*) Elevation, in feet, at end of month.

(**) Change in contents, in acre-feet.

06849500 REPUBLICAN RIVER BELOW HARLAN COUNTY DAM, NE

LOCATION.--Lat 40°04'45", long 99°10'05", in SW $\frac{1}{4}$ sec.6, T.1 N., R.16 W., Franklin County, Hydrologic Unit 10250016, on left bank 1.4 mi west of Naponee, 1.4 mi upstream from Turkey Creek, 2.8 mi downstream from Harlan County Dam, and at mile 234.

DRAINAGE AREA.--20,820 mi², of which about 13,590 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--December 1952 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 1,863.38 ft above sea level (Corps of Engineers bench mark). Data collection platform at station.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow completely regulated by Harlan County Lake (station 06849000) and partially regulated by six upstream reservoirs.

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	6.0	2.1	2.5	1.9	2.6	3.3	2.0	1.8	1.4	123	303	2.8
2	9.6	1.9	2.9	1.8	2.9	2.8	2.1	1.1	2.2	194	285	2.7
3	5.5	1.9	2.9	1.9	2.8	2.6	1.9	0.96	2.3	294	277	2.5
4	5.9	2.0	2.9	2.3	2.5	2.5	1.9	1.0	2.2	320	287	2.2
5	4.7	2.2	2.8	2.3	2.7	2.3	2.0	0.91	1.8	310	286	1.9
6	4.5	2.2	2.4	2.4	2.7	2.6	2.4	0.89	1.5	345	281	1.3
7	4.2	2.4	2.4	2.4	2.2	2.9	2.4	1.1	1.9	353	287	1.5
8	4.0	2.4	2.4	2.5	2.5	3.1	2.4	1.3	2.0	349	270	1.8
9	4.0	2.6	2.2	2.4	2.8	2.2	2.3	1.1	1.9	341	263	2.3
10	4.0	2.6	2.2	2.4	2.9	2.4	1.9	1.1	1.7	354	274	2.4
11	4.0	2.6	2.2	2.2	2.9	3.0	1.9	1.1	2.0	357	264	2.5
12	4.0	2.3	2.1	2.4	2.9	2.9	2.0	1.0	2.5	314	243	2.4
13	4.0	2.4	2.1	2.4	2.9	2.9	2.1	0.89	2.3	377	223	2.4
14	3.7	2.8	2.2	2.5	3.4	2.9	2.2	0.96	2.1	384	177	2.3
15	3.4	2.6	2.4	2.2	3.3	2.5	2.4	1.1	2.0	390	142	2.0
16	3.6	2.4	2.3	1.6	3.0	2.4	2.4	1.3	26	373	138	2.0
17	3.4	2.8	2.3	2.1	3.1	2.5	2.4	1.0	104	368	134	2.0
18	3.3	2.8	2.4	2.4	3.4	2.9	2.4	0.74	139	367	130	2.0
19	3.3	2.9	2.0	2.3	3.4	2.8	2.3	1.9	117	369	63	2.0
20	3.3	2.8	1.9	2.2	3.3	2.5	2.1	2.1	101	370	3.4	1.9
21	3.1	2.7	1.9	1.9	3.2	2.5	2.0	1.1	118	362	3.4	1.9
22	7.8	2.9	e1.9	1.5	3.2	2.2	1.9	1.1	144	348	3.4	1.9
23	4.5	2.8	e1.7	1.8	2.7	2.0	2.3	0.90	115	340	3.4	1.8
24	2.2	2.7	e1.6	1.8	2.9	2.0	2.7	1.9	4.7	333	3.4	1.7
25	1.9	2.9	e1.5	2.1	2.9	2.0	2.4	2.8	2.4	323	3.4	1.6
26	1.7	2.5	e1.4	1.9	2.9	2.1	2.0	1.4	2.4	338	3.4	1.4
27	2.6	2.4	e1.2	1.9	3.0	2.2	2.0	1.1	26	361	3.2	1.3
28	2.2	2.4	1.3	2.4	3.1	1.9	2.0	0.88	56	362	3.3	1.3
29	2.2	2.6	1.5	2.4	---	1.9	40	0.98	61	344	2.8	1.3
30	2.6	2.4	1.5	2.4	---	2.0	13	1.2	79	335	2.4	1.6
31	1.9	---	1.6	2.6	---	2.0	---	1.1	---	313	2.7	---
TOTAL	121.1	75.0	64.6	67.3	82.1	76.8	113.8	37.81	1,125.3	10,411	4,365.2	58.7
MEAN	3.91	2.50	2.08	2.17	2.93	2.48	3.79	1.22	37.5	336	141	1.96
MAX	9.6	2.9	2.9	2.6	3.4	3.3	40	2.8	144	390	303	2.8
MIN	1.7	1.9	1.2	1.5	2.2	1.9	1.9	0.74	1.4	123	2.4	1.3
AC-FT	240	149	128	133	163	152	226	75	2,230	20,650	8,660	116

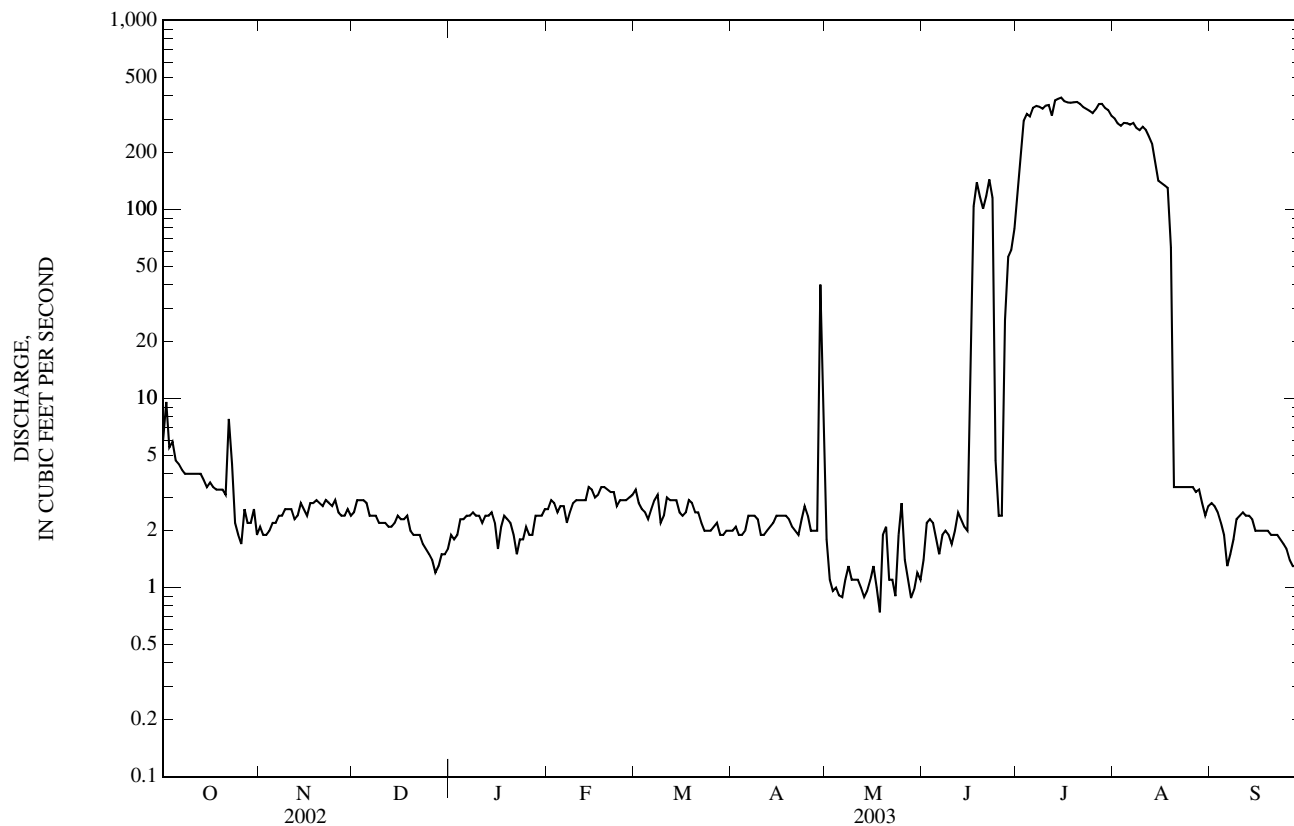
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2003, BY WATER YEAR (WY)

MEAN	117	71.0	57.6	51.8	110	122	192	195	368	709	420	125
MAX	2,044	985	571	535	680	941	2,400	2,069	1,763	2,761	1,726	1,260
(WY)	(1966)	(1994)	(1994)	(1966)	(1966)	(1963)	(1960)	(1960)	(1962)	(1962)	(1962)	(1996)
MIN	3.79	2.50	2.08	2.17	2.15	2.48	2.63	1.22	14.4	70.3	91.0	1.96
(WY)	(1990)	(1992)	(2003)	(2003)	(1977)	(2003)	(1992)	(2003)	(1993)	(1993)	(1981)	(2003)

06849500 REPUBLICAN RIVER BELOW HARLAN COUNTY DAM, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1953 - 2003	
ANNUAL TOTAL	37,774.7		16,598.71		214	
ANNUAL MEAN	103		45.5		690	
HIGHEST ANNUAL MEAN					37.4	
LOWEST ANNUAL MEAN					4,210	
HIGHEST DAILY MEAN	744	Jun 30	390	Jul 15	0.29	Nov 2, 1965
LOWEST DAILY MEAN	1.2	Dec 27	0.74	May 18	0.38	Jun 3, 1996
ANNUAL SEVEN-DAY MINIMUM	1.4	Dec 24	1.00	May 12	4,320	Jun 1, 1996
MAXIMUM PEAK FLOW			496	Jul 12	8.65	Jun 25, 1957
MAXIMUM PEAK STAGE			2.41	Jul 12		
ANNUAL RUNOFF (AC-FT)	74,930		32,920		155,200	
10 PERCENT EXCEEDS	618		275		640	
50 PERCENT EXCEEDS	4.6		2.4		14	
90 PERCENT EXCEEDS	2.4		1.5		4.0	

e Estimated.



06852500 COURTLAND CANAL AT NEBRASKA-KANSAS STATE LINE

LOCATION.--Lat 40° 00'15", long 98° 07'55", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.32, T.1 N., R.7 W., Nuckolls County, Nebraska, Hydrologic Unit 10250016, on left bank 0.2 mi upstream from Nebraska-Kansas State line and 3.5 mi southwest of Superior, NE.

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder and concrete Parshall flume. Datum of gage is 1,612.46 ft above sea level. Data collection platform at station.

REMARKS.--Records good except for estimated daily discharges, which are poor. Canal diverts from Republican River at Courtland diversion dam in sec.7, T.1 N., R.9 W. Water is used for irrigation in Nebraska and Kansas; figures published herein represent that portion which flows into Kansas.

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	27	117	76	e72	e110	0.00	0.00	281	61	89	200	31
2	31	99	76	e72	e114	0.00	0.00	202	65	92	190	31
3	53	93	76	e64	e108	0.00	0.00	143	50	110	188	31
4	86	86	75	e68	e92	0.00	e0.00	126	61	137	187	30
5	80	85	e76	e72	e88	0.00	e0.00	119	65	163	189	30
6	e62	82	e76	e72	e84	0.00	e0.00	115	62	177	186	30
7	61	81	e76	e70	e80	0.00	e5.0	112	62	187	174	30
8	e58	81	e76	e70	79	0.00	73	149	61	203	176	30
9	58	81	e76	e70	77	0.00	92	216	66	207	178	29
10	51	79	e76	e68	76	0.00	89	136	81	207	173	31
11	48	76	e76	54	72	0.00	82	129	74	204	174	73
12	48	76	e76	50	e68	0.00	77	e96	71	197	174	172
13	47	76	76	52	e66	0.00	76	39	83	196	166	124
14	47	80	75	65	e58	0.00	75	25	81	193	170	59
15	e47	81	75	e66	49	0.00	74	58	79	210	208	44
16	46	77	76	e64	e25	0.00	79	58	64	208	208	38
17	45	77	76	e64	e15	0.00	77	58	51	205	172	35
18	45	77	76	e62	e5.2	0.00	76	58	46	201	158	33
19	e44	76	77	e62	0.00	0.00	78	52	60	206	193	e31
20	44	76	77	63	0.00	0.00	78	38	96	219	149	e31
21	43	76	73	e64	0.00	0.00	77	37	e120	221	132	31
22	44	76	67	e64	0.00	0.00	76	40	120	225	70	32
23	74	75	61	e60	e0.00	0.00	77	60	96	230	51	32
24	103	e74	56	e58	e0.00	0.00	121	72	60	240	42	31
25	95	74	55	e56	e0.00	0.00	129	65	59	225	46	31
26	80	76	55	e56	e0.00	0.00	111	63	57	213	48	30
27	77	76	57	e56	0.00	0.00	99	57	58	212	59	30
28	79	77	61	e56	0.00	0.00	93	61	58	227	59	30
29	80	78	e62	e54	---	0.00	100	60	58	247	55	30
30	102	76	e66	e56	---	0.00	158	61	78	231	34	30
31	128	---	e68	85	---	0.00	---	60	---	205	31	---
TOTAL	1,933	2,414	2,200	1,965	1,266.20	0.00	2,072.00	2,846	2,103	6,087	4,240	1,250
MEAN	62.4	80.5	71.0	63.4	45.2	0.000	69.1	91.8	70.1	196	137	41.7
MAX	128	117	77	85	114	0.00	158	281	120	247	208	172
MIN	27	74	55	50	0.00	0.00	0.00	25	46	89	31	29
AC-FT	3,830	4,790	4,360	3,900	2,510	0.00	4,110	5,650	4,170	12,070	8,410	2,480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2003, BY WATER YEAR (WY)

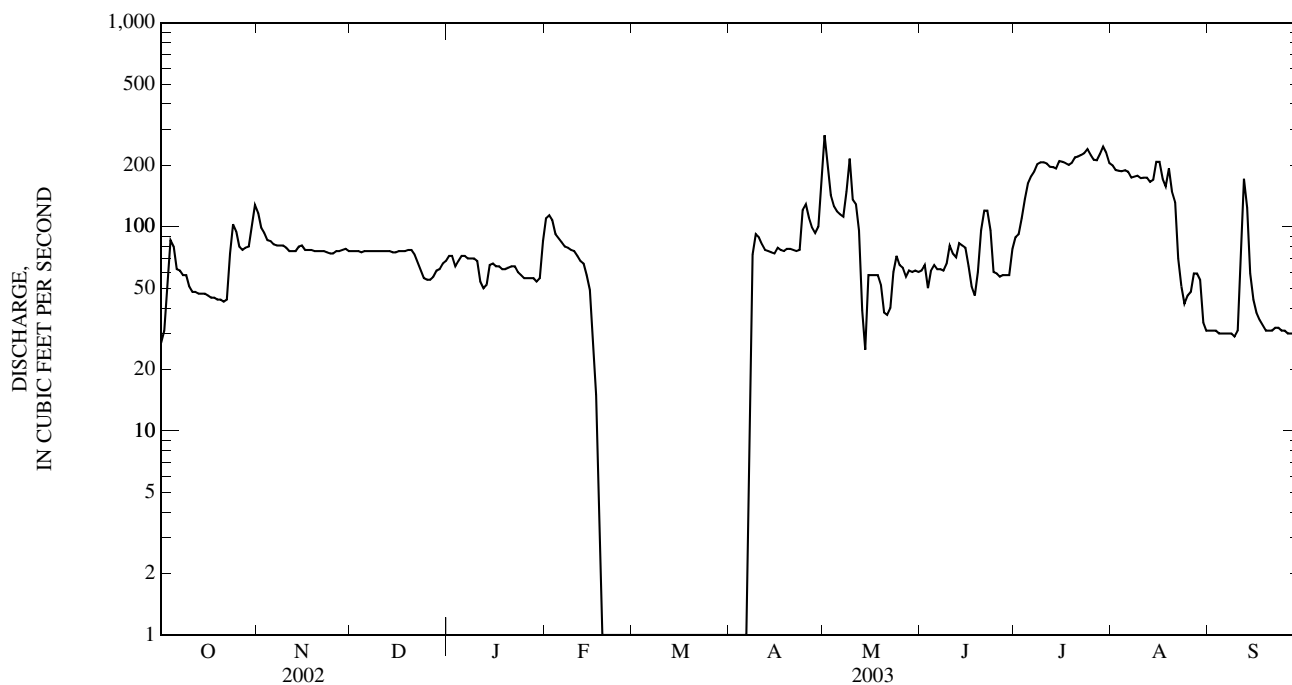
MEAN	30.7	12.1	5.45	5.87	4.79	9.53	15.2	53.0	115	347	277	65.6
MAX	464	212	75.0	84.4	82.9	187	109	237	362	627	570	205
(WY)	(1958)	(1967)	(2001)	(1992)	(1992)	(2000)	(2000)	(1958)	(1988)	(1976)	(1976)	(1995)
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21.2	44.4	80.3	0.000
(WY)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1957)	(1957)	(1955)	(1992)	(1977)

06852500 COURTLAND CANAL AT NEBRASKA-KANSAS STATE LINE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1955 - 2003	
ANNUAL TOTAL	36,046.8		28,376.20		79.2	
ANNUAL MEAN	98.8		77.7		138	
HIGHEST ANNUAL MEAN					19.5	
LOWEST ANNUAL MEAN					731	
HIGHEST DAILY MEAN	475	Jul 30	281	May 1	1955	Oct 22, 1957
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Feb 19	*0.00	Oct 1, 1954
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Feb 19	0.00	Oct 1, 1954
MAXIMUM PEAK FLOW			311	May 1	781	Sep 2, 1973
MAXIMUM PEAK STAGE			2.89	May 1	5.05	Sep 2, 1973
ANNUAL RUNOFF (AC-FT)	71,500		56,280		57,400	
10 PERCENT EXCEEDS	318		186		289	
50 PERCENT EXCEEDS	75		70		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated.

* No flow for many days each year.



06853020 REPUBLICAN RIVER AT GUIDE ROCK, NE

LOCATION.--Lat 40° 03'49", long 98° 19'53", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.9, T.1 N., R.9 W., Webster County, Hydrologic Unit 10250016, on left downstream bank at Nebraska State Highway 78 bridge, 0.2 mi downstream from Minnie Creek and 0.5 mi south of Guide Rock. Station is 3.1 river miles downstream from station 06853000, Republican River near Guide Rock, previous site, and at mile 176.

DRAINAGE AREA.--22,100 mi², approximately, of which about 14,610 mi² contributes directly to surface runoff.

PERIOD OF RECORD.--August 1950 to current year. August 1950 to September 1984 published as Republican River near Guide Rock (06853000).

REVISED RECORDS.--WDR NE-97-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,616.15 ft above sea level, levels by U.S. Corps of Engineers. Prior to Oct. 1, 1959, at datum 12.98 ft higher, and Oct. 1, 1959 to Nov. 28, 1984, at datum 7.98 ft higher, both at site 3.1 miles upstream. Data collection platform at station

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow affected by irrigation development above station, by regulation of upstream reservoirs, and since Nov. 14, 1952, by storage in Harlan County Lake (station 06849000).

COOPERATION.--Records provided by Nebraska Department of Natural Resources and reviewed by the U.S. Geological Survey.

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	0.43	4.2	2.0	e2.2	3.2	e84	84	9.4	26	17	14	1.2
2	0.76	2.7	2.0	e2.1	3.2	e100	67	7.8	46	13	14	1.0
3	1.3	2.5	1.9	e2.4	3.1	114	84	6.8	41	9.9	17	0.95
4	12	2.4	1.9	2.5	3.0	90	78	6.6	40	12	14	0.86
5	2.3	2.3	1.9	2.6	e2.8	61	77	6.3	310	11	13	0.83
6	1.5	2.2	2.1	2.6	e2.0	79	94	8.0	83	5.1	9.0	0.73
7	0.90	2.2	2.1	2.7	e2.0	100	66	7.5	42	2.8	9.7	0.73
8	0.74	2.1	2.2	2.6	e2.4	98	11	55	33	10	8.7	0.73
9	0.73	2.1	2.3	e2.4	e2.5	83	8.3	45	22	24	9.2	0.96
10	0.70	2.0	2.3	e2.0	e2.8	90	6.8	27	12	13	7.6	1.0
11	0.76	1.9	2.3	e2.7	3.2	106	6.0	14	10	9.6	14	57
12	0.72	2.1	2.2	4.1	3.1	90	5.5	16	22	6.5	18	4.5
13	0.77	2.1	2.2	3.3	3.1	86	5.0	51	43	5.6	6.8	1.9
14	0.82	2.3	2.2	e2.9	40	86	4.7	47	10	15	5.6	1.4
15	0.81	2.0	2.2	e2.6	95	87	4.3	39	8.4	18	13	1.3
16	0.84	2.1	2.2	e2.1	80	85	6.3	46	7.3	26	6.8	1.3
17	0.85	2.0	2.2	e2.0	91	85	4.6	64	6.8	19	4.9	1.2
18	0.86	1.9	2.2	e2.3	98	107	4.8	61	6.7	10	4.8	1.1
19	0.81	1.9	2.1	e2.9	90	114	4.3	85	6.3	8.7	14	1.0
20	0.87	1.9	e1.9	e2.7	87	108	4.2	93	22	19	4.8	0.86
21	0.91	1.9	e1.8	e2.1	87	98	3.9	105	17	27	3.6	0.90
22	1.3	1.9	e1.8	e1.8	e80	95	3.8	62	9.3	26	3.1	0.96
23	2.1	1.9	e1.7	e1.8	e64	93	7.0	47	213	27	2.7	0.88
24	1.8	1.9	e1.6	e1.8	e64	90	8.2	575	944	13	2.3	0.81
25	1.7	1.9	e1.6	e2.1	e70	86	6.2	573	316	11	2.1	0.79
26	1.6	1.9	e1.7	e2.4	e80	85	5.3	160	112	9.3	2.2	0.78
27	1.8	1.9	e1.9	e2.7	e84	84	5.2	90	61	9.6	2.3	0.71
28	1.8	2.0	e2.1	e3.1	e84	80	4.8	59	37	19	2.2	0.69
29	2.1	2.1	e2.1	e2.9	---	78	7.3	43	28	19	1.6	0.67
30	3.9	2.0	e2.2	3.2	---	80	17	36	30	15	1.4	0.91
31	6.0	---	e2.2	3.6	---	83	---	29	---	18	1.3	---
TOTAL	54.48	64.3	63.1	79.2	1,230.4	2,805	694.5	2,474.4	2,564.8	449.1	233.7	88.65
MEAN	1.76	2.14	2.04	2.55	43.9	90.5	23.1	79.8	85.5	14.5	7.54	2.96
MAX	12	4.2	2.3	4.1	98	114	94	575	944	27	18	57
MIN	0.43	1.9	1.6	1.8	2.0	61	3.8	6.3	6.3	2.8	1.3	0.67
AC-FT	108	128	125	157	2,440	5,560	1,380	4,910	5,090	891	464	176

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2003, BY WATER YEAR (WY)

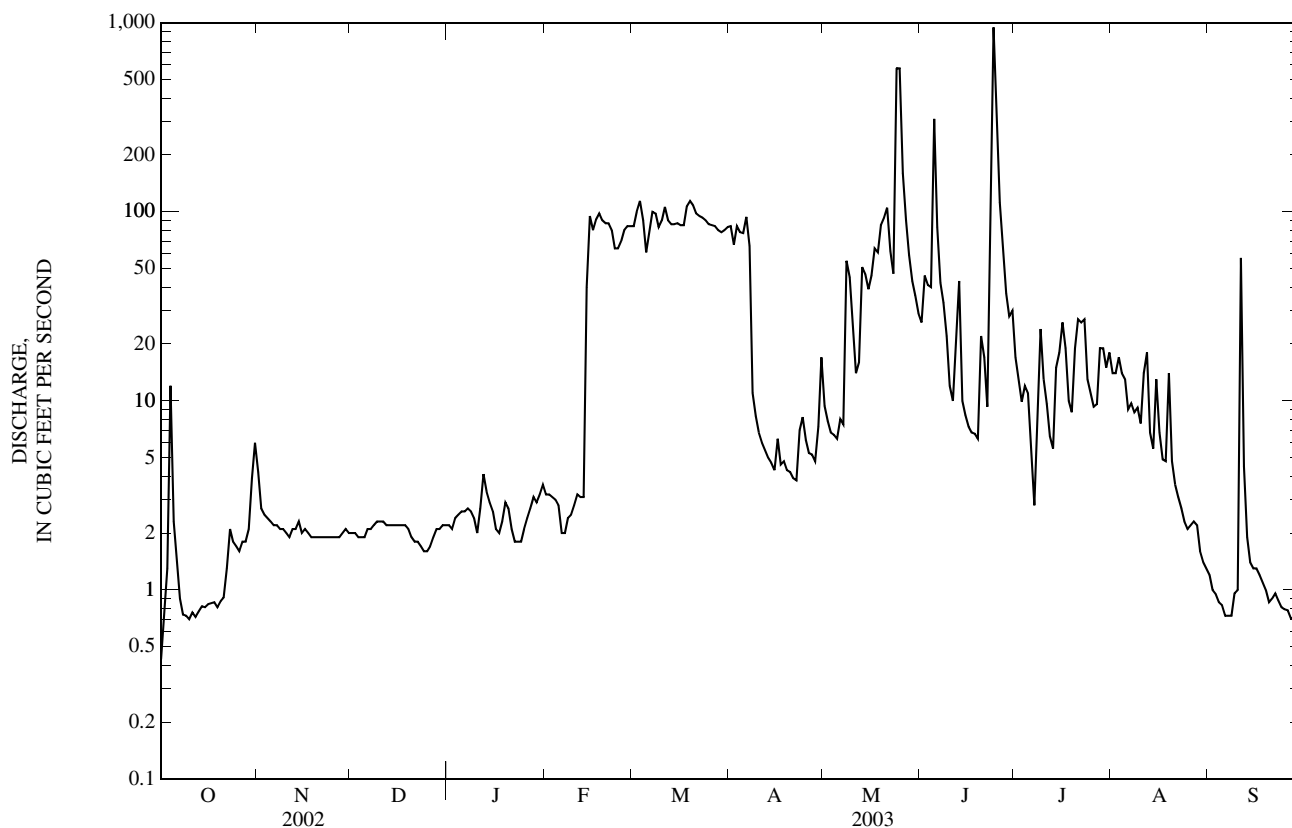
	197	178	155	148	242	308	352	400	457	495	232	267
MEAN	197	178	155	148	242	308	352	400	457	495	232	267
MAX	2,073	1,245	819	588	948	1,077	2,484	2,511	3,619	4,298	1,712	3,602
(WY)	(1966)	(1994)	(1994)	(1952)	(1952)	(1952)	(1960)	(1960)	(1951)	(1951)	(1962)	(1951)
MIN	1.19	2.14	2.04	2.55	3.86	22.5	6.86	7.04	11.5	14.5	7.54	0.64
(WY)	(1992)	(2003)	(2003)	(2003)	(1992)	(1992)	(1992)	(1989)	(1992)	(2003)	(2003)	(2002)

06853020 REPUBLICAN RIVER AT GUIDE ROCK, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1950 - 2003	
ANNUAL TOTAL	12,396.83		10,801.63		285	
ANNUAL MEAN	34.0		29.6		1,495	
HIGHEST ANNUAL MEAN					29.6	
LOWEST ANNUAL MEAN					20,900	
HIGHEST DAILY MEAN	221	May 29	944	Jun 24	20,900	Jun 16, 1957
LOWEST DAILY MEAN	0.38	Sep 25	0.43	Oct 1	0.10	May 26, 1964
ANNUAL SEVEN-DAY MINIMUM	0.39	Sep 23	0.75	Oct 8	0.39	Sep 23, 2002
MAXIMUM PEAK FLOW					29,200	Jun 16, 1957
MAXIMUM PEAK STAGE					20.73	Jun 16, 1957
ANNUAL RUNOFF (AC-FT)	24,590		21,430		206,600	
10 PERCENT EXCEEDS	119		86		663	
50 PERCENT EXCEEDS	8.6		4.8		115	
90 PERCENT EXCEEDS	0.83		1.0		14	

e Estimated.

* Site and datum then in use.



06853500 REPUBLICAN RIVER NEAR HARDY, NE

LOCATION.--Lat 39° 59'33", long 97° 55'53", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.1, T.1 S., R.6 W., in Kansas, Republic County, Hydrologic Unit 10250016, on right bank at upstream side of county highway bridge, 1.2 mi southwest of Hardy, NE, and at mile 141.2.

DRAINAGE AREA.--22,401 mi², of which about 7,500 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--June 1904 to September 1915 (no winter records), April 1931 to current year. Prior to May 1932, published as "at Bostwick." Records for June 1896 to November 1903 published as "near Superior" in 18th to 22nd Ann. Repts., inclusive, Pt. 4, and WSP 75, 84, and 99, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 806: Drainage area. WSP 1006: 1941. WSP 1340: 1905(M), 1907-09, 1912, 1914-15, 1931. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 1,501.46 ft above NGVD of 1929. Prior to May 19, 1932, nonrecording gage at site at Bostwick, 20 mi upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Natural flow affected by irrigation development upstream from station and by storage in reservoirs in Colorado, Kansas, and Nebraska. Considerable regulation since 1952 by Harlan County Lake (station 06849000). Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stages since at least 1895, that of June 2, 1935, and 17.00 ft June 24, 1947, discharge, 100,000 ft³/s, based on records for upstream stations.

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	15	34	20	23	e30	e81	89	60	83	96	26	23
2	61	32	20	23	e31	e85	89	49	90	76	30	21
3	46	29	20	23	32	e90	89	43	92	62	32	19
4	163	26	21	22	e31	e91	89	41	87	57	46	19
5	114	23	22	23	30	e93	89	40	89	56	47	18
6	59	21	21	22	30	e96	94	40	260	65	35	15
7	34	21	20	23	e31	96	99	40	197	62	28	13
8	30	21	20	23	e31	e95	95	147	122	55	24	13
9	27	21	20	23	e32	e93	62	365	99	47	25	19
10	26	21	20	e23	e32	92	52	159	87	51	28	34
11	25	21	20	e23	32	97	48	108	76	56	25	950
12	25	21	20	e23	31	95	45	84	69	45	22	819
13	24	21	20	e24	31	97	44	72	98	42	25	267
14	25	23	20	e23	33	93	42	78	103	40	25	106
15	24	23	20	e22	37	92	41	83	75	40	25	69
16	24	23	20	e21	79	91	42	79	61	39	19	55
17	25	23	20	e21	87	93	42	76	57	37	12	46
18	25	23	20	e22	94	100	41	86	59	36	21	41
19	24	22	20	e22	103	109	40	100	58	32	132	37
20	24	23	19	e22	104	116	38	114	57	31	67	34
21	24	22	19	e21	104	110	38	130	56	34	46	33
22	25	22	e18	e21	101	103	38	124	66	49	35	30
23	30	23	e18	e21	97	99	42	120	2,120	50	30	29
24	32	23	e18	e21	85	96	52	260	839	41	27	27
25	30	23	e18	e22	77	94	49	1,050	838	32	25	25
26	28	24	e18	e23	e76	92	44	596	422	21	20	25
27	29	24	e19	e25	e77	91	41	281	262	20	18	22
28	29	24	e21	e26	e78	91	40	189	180	23	17	21
29	30	24	e22	e28	---	88	41	145	136	27	21	21
30	41	20	e23	e29	---	87	49	115	112	27	17	24
31	39	---	24	e30	---	88	---	95	---	25	22	---
MEAN	37.3	23.4	20.0	23.2	58.4	94.6	56.8	160	232	44.3	31.4	95.8
MAX	163	34	24	30	104	116	99	1,050	2,120	96	132	950
MIN	15	20	18	21	30	81	38	40	56	20	12	13
AC-FT	2,290	1,390	1,230	1,420	3,250	5,820	3,380	9,860	13,790	2,730	1,930	5,700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2003, BY WATER YEAR (WY)

MEAN	268	223	194	185	290	407	429	475	480	500	304	306
MAX	1,970	1,308	928	636	968	1,584	2,415	2,523	2,031	3,210	1,800	1,455
(WY)	(1966)	(1994)	(1994)	(1966)	(1966)	(1993)	(1960)	(1960)	(1960)	(1993)	(1962)	(1973)
MIN	17.2	22.3	20.0	23.2	27.0	66.5	39.1	29.6	46.5	44.3	30.5	15.3
(WY)	(1992)	(1992)	(2003)	(2003)	(1992)	(1991)	(1991)	(1992)	(1992)	(2003)	(2002)	(1991)

06853500 REPUBLICAN RIVER NEAR HARDY, NE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1958 - 2003	
ANNUAL MEAN	69.9		72.9		339	
HIGHEST ANNUAL MEAN					800	1960
LOWEST ANNUAL MEAN					72.5	1991
HIGHEST DAILY MEAN	238	May 30	2,120	Jun 23	15,000	Oct 1, 1983
LOWEST DAILY MEAN	13	Aug 8	12	Aug 17	4.8	Aug 3, 1991
ANNUAL SEVEN-DAY MINIMUM	15	Sep 5	17	Sep 3	9.0	Jun 26, 1992
MAXIMUM PEAK FLOW			3,380	Jun 23	225,000	Jun 2, 1935
MAXIMUM PEAK STAGE			8.31	Jun 23	19.40	Jun 2, 1935
INSTANTANEOUS LOW FLOW			10	Aug 17	0.00	Aug 9, 1934
ANNUAL RUNOFF (AC-FT)	50,610		52,780		245,400	
10 PERCENT EXCEEDS	160		105		755	
50 PERCENT EXCEEDS	44		34		164	
90 PERCENT EXCEEDS	18		20		54	

e Estimated

